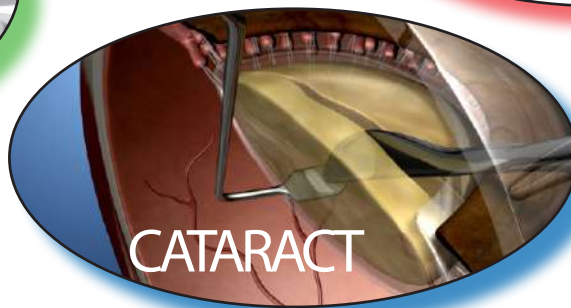


# ASICO®

## Catalog

Today's Precision... Tomorrow's Vision™



Version NO:01/22

OPHTHALMIC SURGICAL INSTRUMENTS

[www.asico.com](http://www.asico.com) · [info@asico.com](mailto:info@asico.com)

## GENERAL INFORMATION

### WARRANTY/GUARANTEE

All ASICO ophthalmic instruments are unconditionally guaranteed for life against manufacturing defects in material and workmanship when used for their intended surgical purpose and cared for in accordance with recommended procedure.

In the event any ASICO instrument should fail as a result of a manufacturing defect in material or workmanship, it will be replaced or repaired at no charge.

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# TABLE OF CONTENTS

AE-1000 SERIES	SPECULUMS, INCISION & CCC MEASURING GAUGES, CARTRIDGE HOLDER, DMEK BLOCK, TORIC DEGREE GAUGES	PAGE 3
AE-2000 SERIES	FIXATION HOOKS & RINGS, IRRIGATING PUPIL EXPANDER, MANIPULATORS, SPATULAS, RAKES, SUSTAINERS, CHOPPERS, DIVIDERS, DISSECTORS, LEVITATORS, OPTIC ZONE & CCC MARKERS, PRE-OP & INTRA-OP MARKERS, LRI MARKERS, STRIPPERS, SCRUBBERS, COMPRESSION DISC, PRK DISPENSERS, ILM & LASEK SPATULAS, FIXATION PLATES, INTRALASE® CENTERING DEVICES, ILM PICKS	PAGE 28
AE-3000 SERIES	ALGERBRUSH	PAGE 78
AE-4000 SERIES	PRECHOPPERS, NUCLEUS SPLITTERS, IOL CUTTERS, TENSION RINGS, FORCEPS: CCC, TYING, CHALASIS, CILIA, VRTIS™(VITREORETINAL)	PAGE 82
AE-5000 SERIES	SCISSORS: IOL, CONJUNCTIVA, VITREORETINAL (VRTIS™), ICMS, DALK	PAGE 122
AE-6000 SERIES	ICMS™ NEEDLE HOLDERS	PAGE 134
AE-7000 SERIES	CANNULAS, OCCUPLASTY	PAGE 138
AE7-0000 SERIES	CLEANING I/A HANDLE, BIMANUALS , I/A TIPS	PAGE 159
AE-8000 SERIES	DIAMOND KNIVES, GLAUCOMA PUNCH	PAGE 165
AE-9000 SERIES	INJECTORS: CLEANING & REGULAR	PAGE 181
AS-1000 SERIES	DISPOSABLE MARKING PENS	PAGE 187
AS-7000 SERIES	DISPOSABLE ADVANCUT BLADES	PAGE 183
AS-8000 SERIES	DISPOSABLE INJECTORS & DISPOSABLE INJECTOR TIPS	PAGE 188
AST SERIES	STERILIZATION TRAYS	PAGE 190
OTHER	INSTRUMENT SETS	PAGE 192

# AE - 1000 SERIES

Description	Page
Speculums	
Retractors	17-18
Fixation Rings	19
Calipers	19-20
Markers	20-22
Gauges	22,24-25
Dilators	26
Depressors	27

Most speculums are made of non-magnetic material. Aspirating speculums are made of stainless steel tubing and connected to silicone tubing. This speculum is most useful for phaco or LASIK procedures where BSS (Balanced Salt Solution) is used. ASICO's aspirating speculums are supplied with a silicone tubing which should be connected to the operating room suction at a Low setting. The silicone tubing can also be connected to a 50cc syringe or small vacuum pump. When the syringe is placed on a lower level to the patient's head, gravity in conjunction with the vacuum aspirates the BSS. To clean the speculum, flush it with Distilled water after each and every use and before Sterilizing. The silicone tubing, along with the speculum can also be sterilized. If you have any questions regarding the use of or care of ASICO speculums please call our Customer Service.



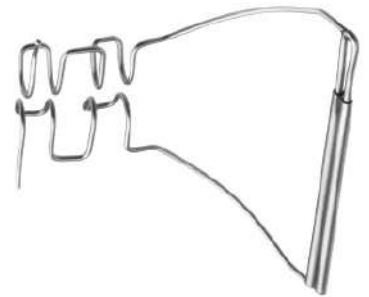






**Akahoshi 3-Prong Cataract Speculum – AE-1023**

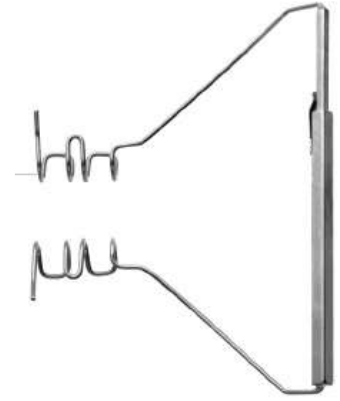
3 prong, nasal speculum for easy temporal access.  
Adjustable self-locking mechanism.



### Akahoshi 3-Prong Speculum with Square Lock – AE-1025

Overall Length: 50 mm  
Blade Length: 14.5 mm

3-prong prevents cilia from protruding out of the surgical drape. Thin wire for increased visibility of the surgical field; adjustable, square lock accommodates various lid sizes; 3-prong prevents cilia from protruding out of the surgical drape; shorter prongs for ideal for deep set eyes and narrow lids.



#### For Deep Set Eyes – AE-1026

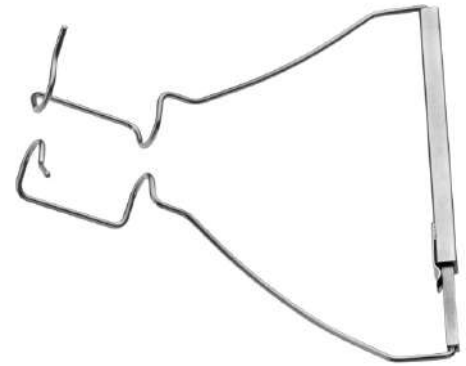
For the deep set version, the gap is smaller for the middle prong. Ideal for deep set eyes and narrow lids



### Akahoshi 1-Prong Speculum with Square Lock – AE-1027

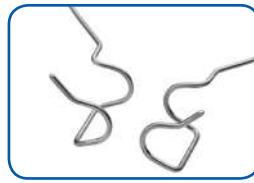
Overall Length: 50 mm  
Blade Length: 14 mm

Shorter prong. Thin wire for increased visibility of the surgical field; adjustable, square lock accommodates various lid sizes. Ideal for regular size eyes.



#### For Deep Set Eyes – AE-1028

For the deep set version, the gap is smaller for the middle prong. Ideal for deep set eyes and narrow lids



### Murdoch-Slade Lasik Speculum – AE-1033

Overall Length: 50 mm

Blade Length: 20 mm

Ideal for Femtosecond Cataract procedure. Blades conform to all popular docking stations and provides maximum exposure when using the laser. Self-locking.



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### Nordan Olive tip speculum - AE-1038N

Overall Length: 77 mm

Blade Length: 15 mm



## Lieberman Eye Speculum – AE-1040N

Adjustable Model

Overall Length: 70 mm

Blade Length: 19 mm

Unique 45° angle contours to the facial angle on the temporal side permitting accessibility for temporal and superior approach surgical techniques.



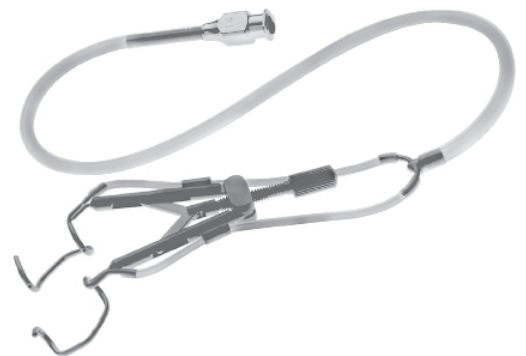
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**Machat- Buratto Aspirating LASIK Speculum - AE-1043A**

Overall length: 70 mm

Blade length: 15 mm

Blades maximize exposure of the globe. Used with suction set on low or syringe





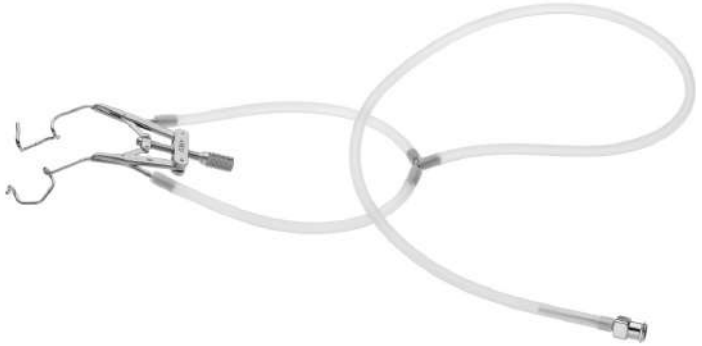
**Machat Adjustable Aspirating LASIK Speculum – AE-1043AN**

Overall Length: 70 mm

Blade Length: 15 mm

Blades maximize exposure of the globe.

Used with a suction set on low or syringe.



**Kraff Solid Blade Speculum - AE-1045N**

Overall length: 60 mm

Blade length: 14 mm

Blades minimize interference and contamination from eyelashes



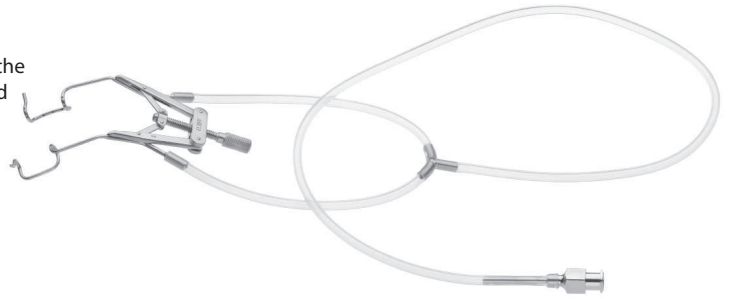
## Miyajima Adjustable Aspirating Speculum - AE-1046AN

Overall Length: 90 mm

Blade Length: 15 mm

30° angle.

Ideal for patients with small eyes. Shape of blades does not cause discomfort to the patient. Continuous aspiration will keep the surgical field clear of excess fluid and debris, and may reduce the possibility of Sands of the Sahara.

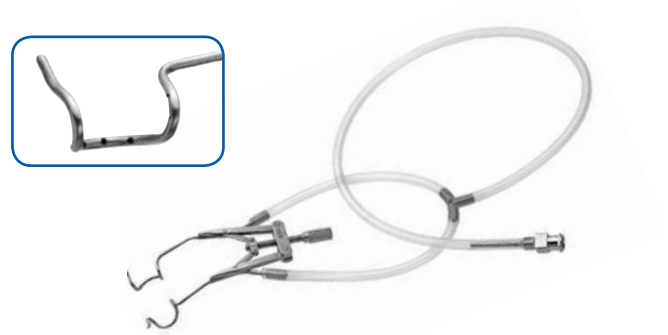


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### Hata-Miyoshi Aspirating Speculum - AE-1051AN

Blade Length: 12 mm  
Overall Length: 80 mm

Inward placement of holes along with center holes result in ease of aspiration.



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**Lancaster** Temporal Solid Blade Speculum - [AE-1089](#)

Overall length: 79 mm  
Blade length: 16 mm



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## Flieringa

Scleral Fixation Ring

AE-1312 12 mm

AE-1313 13 mm

AE-1314 14 mm

AE-1315 15 mm

AE-1316 16 mm

AE-1317 17 mm

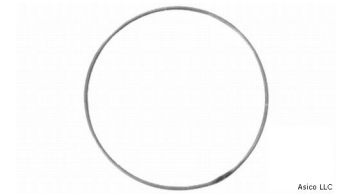
AE-1318 18 mm

AE-1319 19 mm

AE-1320 20 mm

AE-1321 21 mm

AE-1322 22 mm (Shown)



## Schachar Blepharostats

AE-1400 Small

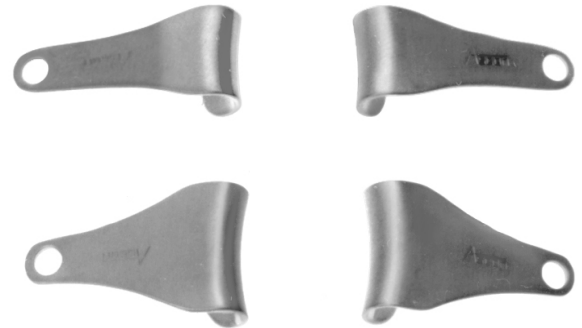
Overall length: 24 mm

Blade width: 10 mm

AE-1400L Large

Overall length: 24 mm

Blade width: 14 mm



## Feldstein blepharostat - AE-1410

sharp



## Feldstein blepharostat - AE-1420

square



## Castroviejo Caliper

AE-1500 Straight

AE-1501 Curved

Overall length: 86 mm

Measures 1.0 mm-20.0 mm in 1.0 mm increments

AE-1502

Measures 1.0 mm to 2.0 mm in 0.5 mm increments





### Osher Incision Caliper - AE-1503

Overall length: 68 mm

Measures 1.0 mm -10.0 mm in 1.0 mm increments.

For internal wound measurement of cataract incisions



### Nordan Wound Size Caliper - AE-1505

Overall length: 116 mm

Measures incision sizes of

2.8 mm-4.0 mm in 0.20 mm increments



### Ruler - AE-1510

Overall length: 159 mm

Stainless Steel



### Galand Incision Marker

AE-1515 3.0 mm

AE-1516 3.2 mm

AE-1517 3.5 mm

AE-1518 4.0 mm

AE-1519 4.5 mm

AE-1520 5.0 mm

AE-1514 5.5 mm

AE-1521 6.0 mm

AE-1511 7.0 mm

AE-1512 7.5 mm

AE-1513 8.0 mm

Overall length: 49 mm



Asico LLC

### Hunkeler Frown Marker - AE-1522

Overall length: 96 mm  
Marks 3.0 mm, 4.0 mm, 5.0 mm,  
6.0 mm incision



### Singer Frown Incision Marker

#### AE-1523

Overall length: 98 mm  
3.9 mm and 5.7 mm width for 5.0 and 7.0 mm IOL  
respectively



#### AE-1524

Overall length: 98 mm  
4.8 mm width for 6.0 mm IOL



### Kansas Linear Marker - AE-1525

Overall length: 98 mm  
Marks sclera 2.0 mm behind  
cornea and marks incision size at  
3.0 mm, 4.0 mm, 5.0 mm, & 6.0 mm



### Crandall USC Glaucoma Marker - AE-1526

Overall length: 98 mm  
Outer square: 5.0 mm x 5.0 mm  
Inner triangle: 5.0 mm x 5.0 mm x 4.0 mm  
Marks pattern to Unroof Schle mm's  
Canal for deep sclerotomy and  
viscocanalostomy



### Jarstad Marker - AE-1527

Overall length: 98 mm  
Makes a 2.8 mm to 4.0 mm frown  
type "no-stitch" incision, Features  
a corneal valve mark to facilitate  
entry into the anterior chamber



**Kraft** Clear Corneal Marker - **AE-1528** 3.5 mm  
Overall length: 95 mm

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## Neuhann USC

**Glaucoma Marker - AE-1529**

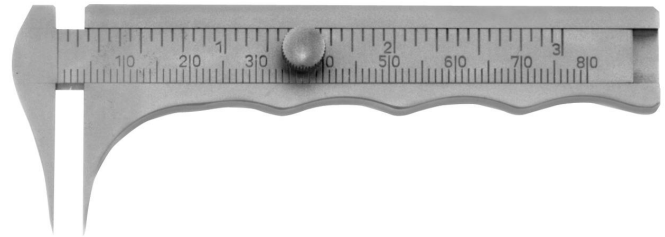
Overall length: 93 mm  
Outer pattern: 5.0 mm x 5.0 mm  
Inner pattern: 4.0 mm x 4.0 mm  
Marks pattern to Unroof  
Schle mm's Canal for deep sclerotomy  
and viscocanalostomy.  
Swivel handle comfortably  
marks from either temporal or  
superior approach

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**Jameson** Caliper - **AE-1530**

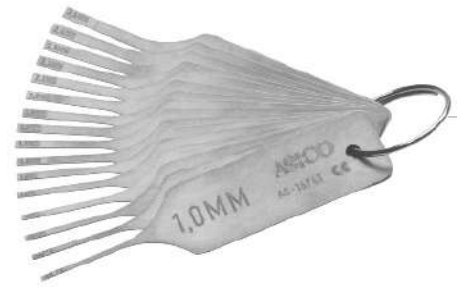
Overall length: 94 mm  
Narrow tips



## Tsuneoka Incision Gauges – AE-1574T

Set of 16 Titanium Blades

Measures 1.0 mm to 2.5 mm in 0.1 mm increments.



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## Crandall Capsulorrhexis Incision Gauges – AE-1582T

Set of 18 Titanium Blades

Measures 1.5 mm to 3.2 mm gauge in 0.1 mm increments. Laser lines on the back of each gauge to measure CCC.



### John DMEK Twin Block – AE-1586

Overall Length: 69 mm

Width: 51 mm

Height: 19 mm

2 Cavities of 16 mm Diameter

Block consists of twin wells specially designed to hold the donor cornea and help the surgeon in the donor tissue preparation. It facilitates separation of the Descemet's membrane (DM) from the donor corneal button. The John DMEK block helps in separation, staining, and temporary placement of the donor DM and endothelial cells until transplanted to the recipient cornea.



### ASICO Beveled Degree Gauge without Teeth – AE-1589

Overall Length: 108 mm

ID: 12 mm

OD: 16 mm

Darker engraving for easy reading of the gauge. Bevel allows for markings to be closer to the eye for better visibility during marking. Inside cut-outs align to pre-op marks. Markings every 5°.



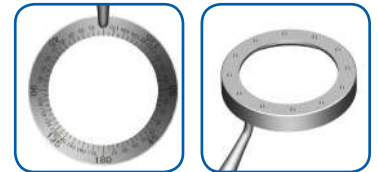
### ASICO Beveled Degree Gauge with Teeth – AE-1590T

Overall Length: 101.50 mm

ID: 12 mm

OD: 16 mm

Features laser lines every 5° for greater accuracy. Beveled design allows maximum visibility under the microscope. Fixation teeth provide better stability.



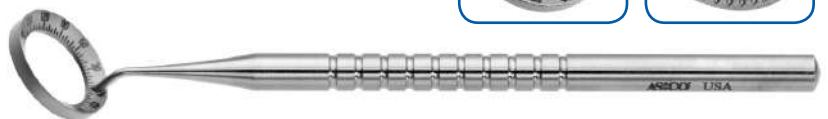
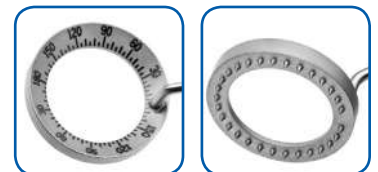
### Miyata LRI & Toric Gauge – AE-1591

Overall Length: 101 mm

ID: 10.5 mm

OD: 14.8 mm

Markings every 5°. Comes with atraumatic fixation teeth. Can be used for both LRI and Toric.



### Yeoh Toric Gauge – AE-1592N

Overall Length: 110 mm

ID: 12 mm

OD: 14 mm

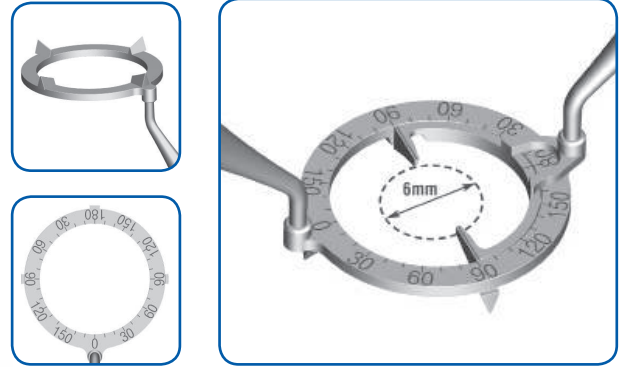
Markings every 10°. Thin, 2 mm rim provides much easier access to the eye as compared to conventional Mendez Degree Gauges. Small, outer diameter accommodates smaller corneas.



## Graether Degree Gauge – AE-1594N

Overall Length: 104 mm  
ID: 12 mm  
OD: 16 mm

Four elevated extensions on bottom at 0°, 90°, 180° and 270° which can be used as stabilizers or for putting clean Intra-Op markings on the eye. Can also potentially be used as a pre-op marker. Degree markings are 10° apart. Recommended for use with Graether Half Circle Axis Marker, AE-2798N.



## Yeoh Thin Toric Gauge – AE-1595

Inner Diameter: 12 mm  
Outer Diameter: 14 mm  
Markings are shown at every 5°, with 4 slots at 0°, 90°, 180° and 270°. Slots at 0° and 180° are at the inner ring, and slots are at 90° and 270° for the outer ring. The surgeon can insert a marking pen tip in the slot for marking.



## Bowman Lacrimal Probe

**AE-1600** Size 0000 and 000

**AE-1610** Size 00 and 0

**AE-1612** Size 1 and 2

**AE-1614** Size 3 and 4

**AE-1616** Size 5 and 6

**AE-1618** Size 7 and 8

Overall length: 150 mm  
Malleable stainless steel



## Harms Trabeculotomy Probe with Guide

**AE-1630** Right

**AE-1631** Left

Overall length: 48 mm



**Castroviejo** Lacrimal Dilator - AE-1640

Overall length: 140 mm



**Infant** Lacrimal Dilator

AE-1650 Stainless steel

AE-1651 Silver

Overall length: 70 mm



**Wilder** Lacrimal Dilator

AE-1660 Long taper

AE-1661 Medium taper

AE-1662 Short taper

Overall length: 101 mm



**Catalana** Lacrimal Intubation Set - AE-1670

Diameter: 0.70 mm

Overall length: 140 mm

Blunt stainless steel malleable probe, attached to 0.31 mm ID x 0.64 mm OD, silicone tubing 300 mm long



**Crawford** Lacrimal Intubation Set - AE-1675

Probe with tubing only

2 olive tip stainless steel

probes, 0.60 mm diameter

x 150 mm long, attached to

0.31 mm ID x 0.64 mm

OD, silicone tubing 300 mm long

AE-1676 Retrieving hook



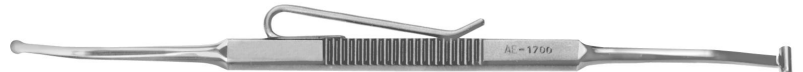
**Crawford** lacrimal intubation set - AE-1676

retrieving hook



**Schockett** Scleral Depressor - AE-1700

Overall length: 135 mm



**Packo Scleral Depressor with Marker - AE-1701**

Overall length: 135 mm

To mark pars plana incision. Flat handle on top represents the marker position



**May Scleral Depressor - AE-1702**

Overall length: 93 mm

Sandblasted tip



**Schepens Scleral Depressor**

**AE-1705** Small

**AE-1706** Medium

**AE-1707** Large

Overall length: 43 mm





Description	Page
Curette	29
Iris Spatulas	29
Cyclodialysis Spatulas	30
Muscle Hooks	30-31
Iris Hooks	31
Fixation Hook/ Rings	32
IOL Hooks	33,59
IOL Manipulators/Pushers	34-37
Lens Spatula	37
Nucleus Rotators (Phaco)	38-43,46
Femtosecond Spatulas	38
DSAEK Glide	38
DMEK Spatula	38
Phaco Choppers	46-49
DALK Dissectors	48,50
Lens Loop/ Spoon	48-50
Phacosection (Manual Fragmentation)	54
Optic Zone Markers	54-55
PRK Markers	55
T-Markers	56
Toric Markers	57-59,62-63,76-77
Degree Gauge	60
PRK Spatulas	60,76
Arcuate Markers	62
LASIK Markers	61,64-66
LRI Markers	65-66,72
LASIK Spatulas	67-69
DSAEK Spatulas	73-74
DALK Spatulas	74
ILM Spatulas	75-76,77
Trocar Fixation Plates	76
Electronic Toric Markers	76-77
Interlase Centering Device	77

Astigmatic markers have a reference mark on anterior side to align with gauge for exact marking on the steeper meridian of the cornea. LASIK markers feature a non-contact optic zone of 3.0mm or greater. This prevents indentation of epithelium in the visual zone, which may effect postoperative vision. LASIK markers also feature radial and paraxial marks for alignment of the flap and to prevent inadvertent upside-down placement of a free cap.

# Spatulas

## Meyerhoefer Curette

Chalazion

AE-2000 1.50 mm

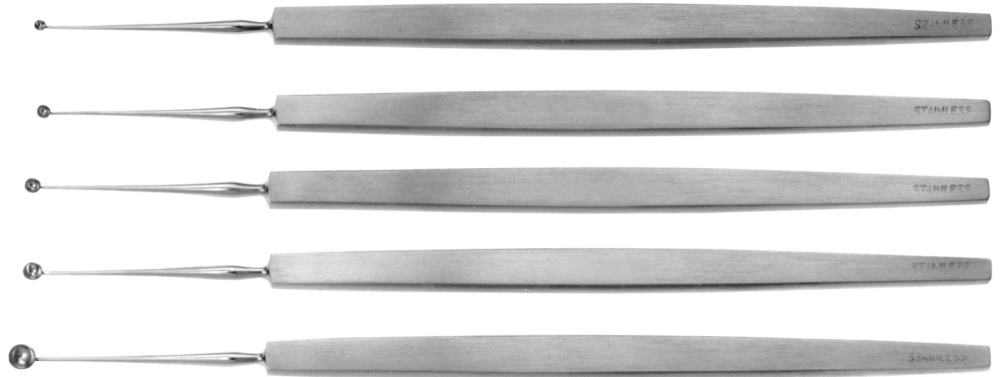
AE-2001 1.75 mm

AE-2002 2.00 mm

AE-2003 2.50 mm

AE-2004 3.50 mm

Overall Length: 125 mm



## Iris Spatula - AE-2040

Overall length: 730 mm

Blade width: 1.00 mm and 7mm

Malleable Stainless Steel



## Barraquer Iris Spatula - AE-2049

Overall length: 120 mm

Angle to tip: 12 mm

Tip width: 0.25 mm



## Troutman-Barraquer Iris Spatula - AE-2050

Overall length: 92 mm

Angle to tip: 15 mm

Tip width: 0.50 mm



## Fry Iris Spatula - AE-2052

Overall length: 125 mm

Angle to tip: 15 mm

Tip width: 0.50 mm



# SPATULAS/HOOKS

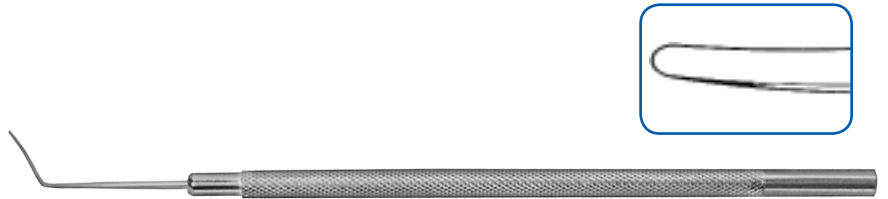
## Castroviejo Synechiaie Spatula - AE-2060

Overall length: 128 mm  
Angle to tip: 10 mm & 13 mm  
Tip width: 0.50 mm  
Semi-sharp tip



## Girard Synechiaie Spatula - AE-2065

Overall length: 120 mm  
Angle to tip: 10 mm  
Tip width: 0.50 mm  
Semi-sharp tip



## Castroviejo Cyclodialysis Spatula

**AE-2071** 0.25 mm wide

**AE-2072** 0.50 mm wide

Overall length: 138 mm  
Angle to tip: 10 mm & 13 mm



## Graefe Muscle Hook

**AE-2101** Size 1 (8.00 mm x 1.00 mm)

**AE-2102** Size 2 (10.00 mm x 1.50 mm)

**AE-2103** Size 3 (10.00 mm x 2.00 mm)

Overall length: 140 mm



## Jameson Muscle Hook - AE-2110

Overall length: 127 mm

Tip length: 8 mm

Tip width: 1.30 mm



# HOOKS

## Green Muscle Hook - AE-2120

Overall length: 127 mm  
Tip length: 9.00 mm  
Tip width: 2.00 mm

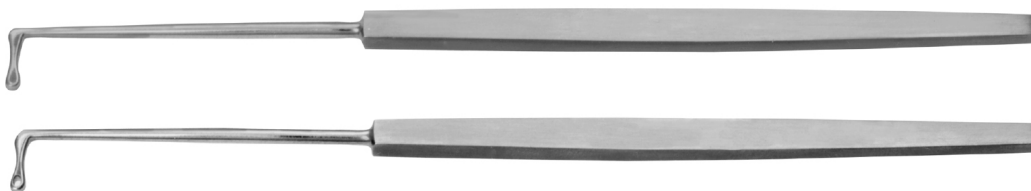


## May Muscle Hook

### AE-2125

### AE-2126 With oblong hole

Overall length: 147 mm  
Tip width: 2.30 mm  
Hole size: 130 mm



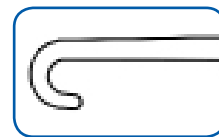
## Gass Retinal Detachment Hook - AE-2128

Overall length: 143 mm  
Hole size: 2.00 mm  
With oval hole



## Bonn Micro Iris Hook - AE-2150

Overall length: 143 mm  
Tip width: 0.55 mm  
Blunt tip



## Shepard Iris Hook - AE-2160

Overall length: 125 mm  
Tip width: 1.00 mm  
Small, blunt tip



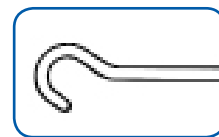
## Hirschman Iris Hook - AE-2170

Overall length: 110 mm  
Angle to tip: 10 mm  
Tip width: 1.00 mm  
Blunt tip



## Knolle Iris Hook - AE-2172

Overall length: 120 mm  
Tip width: 0.80 mm  
Small, very blunt tip



# HOOKS/FIXATION RINGS

## John DXEK/DSAEK Fixation Hook – AE-2182

Overall Length: 130 mm  
Shaft Length: 30 mm  
Shaft Diameter: 0.7 mm

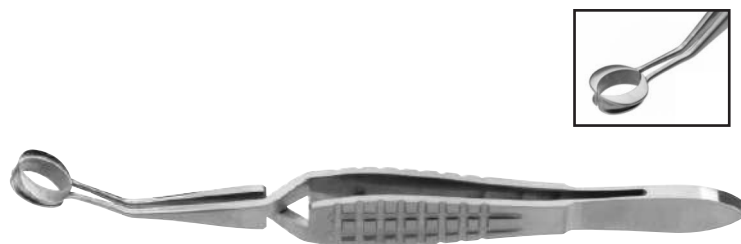
Exquisite design allows for effective fixation of the donor ' injection to unfold the donor disk within the recipient ant



## Vinciguerra LASEK Butterfly Protector - AE-2183

Overall Length: 119 mm

Uniquely designed instrument retracts and protects epithelial flap during laser ablation, black coated tip



## Seibel Fine Fixation Ring - AE-2184

Overall Length: 107 mm

Requires 4-6 mm less palpebral fissure, and still provides 13 mm of fixation; the patient's lids do not need to be stretched as much as usual. This is extremely valuable to all patient's comfort, especially those with small eyes;



## Dell Fixation Ring - AE-2186

3.5 mm diameter

Extremely low profile allows for excellent visibility; Integrated flap shield is angulated away from the surgical field to deflect ablated metal particles away from the corneal bed



## Kraff Hyperopic Fixation Ring - AE- 2187

Overall length: 103 mm,  
Outer dimension: 12.5 mm,  
Inner dimension: 9.5 mm, 45 degree angle.

Designed for the hyperopic LASIK procedure; Base of ring has a hinge protector that prevents the laser from ablating the hinge as it scans the bed of the flap;



## Whitten LASIK Fixation Ring - AE-2189

Overall length: 99 mm  
Diameter: 16.0 mm  
Height: 6 mm

Smooth teeth allow for uniform pressure on the globe with one handed control of eye. Protects flap from debris



# HOOKS

## Fixation Hook Small - AE - 2190

Overall Length : 122 mm  
For scleral fixation



## Fixation Hook Large - AE - 2191

Overall Length: 129 mm  
For scleral fixation

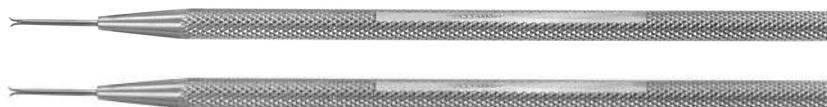


## Twist Hook

AE-2194 Right

AE-2195 Left

Overall length: 108 mm  
For scleral fixation



## Dillman Hook AE-2196

Overall length: 119 mm  
Distance between prongs: 8.0 mm  
Two prong configuration securely fixates eye without damaging scleral tissue.  
Unique angle allows for comfortable hand position for clear cornea procedure



## Burch Scleral Fixation Pick - AE-2197

Overall length: 132 mm



## Fine-Thornton Fixation Ring

AE-2198

13.0 mm diameter for clear cornea

AE-2199

16.0 mm diameter for clear cornea & refractive procedures

Overall length: 115 mm

Opening size: 8.0 mm for 13.0 mm

9.0 mm for 16.0 mm



# HOOKS/FIXATION RINGS

## Kurosaka Fixation Ring – AE-2200

Overall Length: 94 mm  
Thickness of Ring: 1 mm  
Tooth Height: 0.5 mm

Used in the Micro Coaxial procedure to stabilize the globe when making an incision or when inserting the Phaco hand piece as well as IOL implantation during the Counter Traction Implantation Technique. Unique feature is handle position and the 135° arc that allows for better stabilization. The handle position is ergonomically designed for maximum surgeon comfort. Features non traumatic teeth that allows for stabilizing the globe during different steps of the Micro Coaxial procedure.



## Sinsky II IOL Manipulating Hook

AE-2206 Straight

AE-2208 Angled (angle to tip: 10.0 mm)

Overall length: 115 mm  
Tip diameter: 0.20 mm

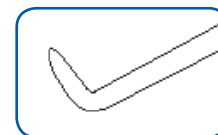
Blunt tip



## Price-Sinsky Hook – AE-2207

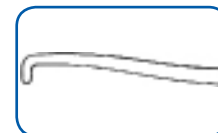
Overall Length: 113 mm  
Shaft Length: 18 mm  
Tip Length: 0.5 mm

Specially designed hook for scoring Descemet's membrane during Descemet's stripping procedures with PLK/DLEK procedures. Designed to be inserted through a stab incision. This hook is also useful for opening the side cuts on Intralase flaps.



## Sinsky No Hole IOL Manipulator - AE-2209

Overall length: 1115 mm  
Tip Diameter: 0.20 mm  
Blunt tip



## Chee Suture Retrieving Hook – AE-2210

Overall Length: 11 mm  
Angle to Tip: 9 mm  
Tip Width: 0.6 mm

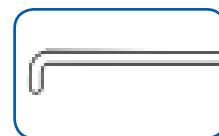
Tip is 'T' shaped, the length of the horizontal line (in T) is 0.69 mm

Iris fixation of IOLs and other iris suturing techniques using the Siepser sliding suture require the hooking of a 9 or 10/0 prolene suture from the anterior chamber angle before externalizing and tying the knot. This maneuver is repeated several times. The Chee suture retrieving hook is designed with this specific aim in mind and makes this tedious step simpler and safer.



## Harris-Sinskey IOL Manipulating Hook - AE-2212

Overall length: 115 mm  
Angle to tip: 10 mm  
Tip diameter: 0.25 mm  
Blunt tip



## Fugo Hook - AE-2217

Overall length: 120 mm  
Tip width: 1.30 mm  
Ideal for "side to side" and "up and down"  
nucleus and lens manipulation



## Double Hook IOL Manipulator & Iris Retractor - AE-2218

Overall length: 115 mm  
Tip width: 0.80 mm  
Ideal for "side to side" and "up  
and down" lens manipulation and  
to stretch anterior capsule



## Bahr- Maltzman Hook - AE-2219

Overall length: 118 mm  
Angle to tip: 10 mm  
Tip width: 0.80 mm  
Ideal for manipulation at the haptic-optic junction  
of "No Hole" IOLs. Hook is bent to the right for easy  
clockwise rotation



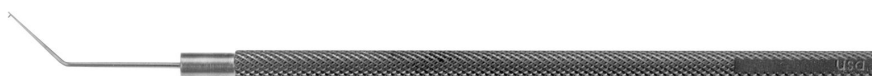
## Kurosaka Fixation ring - AE-2200

Overall Length: 94 mm,  
Thickness of ring: 1 mm, Tooth height: 0.5 mm.  
Used in the Micro Coaxial procedure to stabilize  
the globe when making an incision or when  
inserting the Phaco hand piece as well as IOL



## Fenzl Hook, Angled - AE-2221

Overall Length 115 mm  
Lens manipulating hook

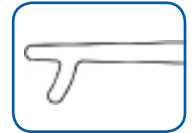




# MANIPULATORS

## Maltzman-Fenzl Modified IOL Manipulator - AE-2222

Overall length: 115 mm  
Angle to tip: 10 mm  
Tip diameter: 0.15 mm  
Slightly bent forward to decrease incidence of disengagement at haptic-optic junction



## Jaffe IOL Manipulator - AE-2223

Overall length: 110 mm  
Angle to tip: 10 mm  
Tip diameter: 0.15 mm



## Beehler Irrigating Pupil Expander – AE-2225

Length of Handle: 125 mm  
Shaft Length: 25 mm  
Ideal for small incision clear cornea and can be used through a 2.5 mm Phaco incision, 2 flexible U-shaped retractors engage and expand the pupil in a triangular shape, easy to use plunger mechanism can be used with or without irrigation simply by exchanging the cap. Built in irrigating port for continuous irrigation so viscoelastic dependency can be reduced. The irrigation port can also be used for easy internal cleaning.

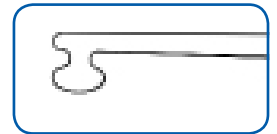


## Kuglen Iris Hook & IOL Manipulator

AE-2230 Straight

AE-2231 Angled (angle to tip: 10 mm)

Overall length: 120 mm  
Tip width: 0.80 mm  
Push-pull model



## Little No Hole IOL Manipulator Straight - AE-2234

Overall length: 115 mm  
Tip width: 1.20 mm  
Engages haptic-optic junction to manipulate the IOL



## Kratz IOL Manipulator - AE-2241

Overall length: 115 mm  
Angle to tip: 10 mm  
Tip diameter: 0.15 mm



# SPATULAS

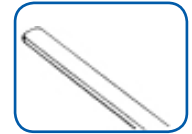
## Tennant IOL Manipulating Hook – AE-2250

Overall Length: 120 mm  
Loop Width: 1 mm  
Tip Diameter: 0.3 mm  
Used for IOL manipulation.  
Hook is completely polished with rounded tip to avoid scratching IOL



## Jaffe IOL Spatula - AE-2310

Overall length: 120 mm  
Angle to tip: 10 mm  
Tip width: 0.50 mm  
Flat, smooth tip



## Obstbaum IOL Spatula - AE-2320

Overall length: 120 mm  
Angle to tip: 10 mm  
Tip width: 0.25 mm  
Flat tip



## Paton Spatula & Spoon - AE-2321

Overall Length 142 mm



## Wheeler Spatula - AE-2322

Overall length: 139 mm  
Tip width: 1.25 mm  
Lightly curved



## Kimura Platinum Spatula - AE-2325

Overall length: 149 mm  
Width: 4.00 mm



## Slade Femtosecond Spatula – AE-2326

Overall Length: 113 mm

Angle to Tip: 10 mm

Tip Width: 0.3 mm

Designed with a flat tip. Used to open the main and sideport incisions made by the Femtosecond laser procedure.



## Ahn DMEK Rake – AE-2327

Overall Length: 113 mm

Angle to Tip: 10 mm

Tip Width: 0.7 mm

Unique design with a blunt T-shaped rake to help easily pull the Descemet's membrane away from the stroma.



## John DMEK Large Crystal Spatula – AE-2328

Overall Length: 114 mm

Angle to Tip Length: 12 mm

Tip Diameter: 0.4 mm

Spatula has a smooth, rounded, olive tip extremity which is specially designed to use on the donor Descemet's membrane within the recipient anterior chamber. It facilitates unrolling of the donor DM.



## John DMEK Small Crystal Spatula – AE-2329

Overall Length: 115 mm

Angle to Tip Length: 10 mm

Tip Diameter: 0.3 mm



## Lane Femtosecond Cataract Incisional Spatula - AE-2331

Overall Length 125 mm

Specially designed double-ended instrument for opening femtosecond created primary, secondary, and arcuate incisions in cataract surgery



## Kobayashi Busin DSAEK Glide - AE-2335

Overall Length 125 mm

The Kobayashi-Busin glide is characterized by the circular marker for better centering the donor while keeping same internal diameter with the original one.



# MANIPULATORS

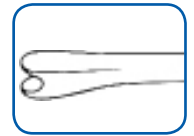
## Hessburg IOL Pusher - AE-2400

Overall length: 115 mm  
Straight with guard



## Aker IOL Pusher - AE-2401

Overall length: 120 mm  
Straight with guard



## Lester IOL Pusher

**AE-2410** Straight

**AE-2411** Angled

(angle to tip: 10 mm)

Overall length: 115 mm

Tip diameter: 0.25 mm

Hour glass shaped tip for IOL manipulation



## Lester No Hole IOL Manipulator - AE-2412

Overall length: 115 mm

Angle to tip: 10 mm

Tip diameter: 0.25 mm

Hour glass shaped tip for IOL manipulation

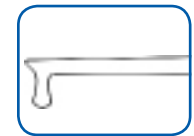


## Maloney No Hole IOL Manipulator - AE-2413

Overall length: 120 mm

Tip diameter: 0.25 mm

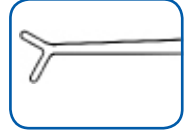
Hour glass shaped tip for IOL manipulation



# MANIPULATORS

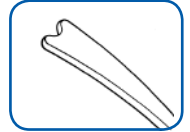
## Osher "V" Hook No Hole IOL Manipulator - AE-2419

Overall length: 120 mm  
Distance between tips: 0.60 mm



## Zaldivar ICL<sup>®</sup> Manipulator - AE-2420

Overall length: 134 mm  
Angle to tip: 13.5 mm/ 9.0 mm  
Width: 0.80 mm  
Designed for myopic and hyperopic lenses



## Battle ICL<sup>®</sup> Manipulator - AE-2421

Overall Length: 119 mm  
Tip Length: 1.1 mm  
Angle at Bend: 45°  
Designed to tuck haptics of the ICL<sup>®</sup> under the iris plane. Olive atraumatic tip engages the haptics allowing for easy placement of the ICL<sup>®</sup>.



ICL<sup>®</sup> is a registered brand of Staar Surgical.



## Spadafora Memorylens<sup>®</sup> Dialer - AE-2422

Overall length: 111 mm  
Tip width: 0.90 mm  
Dual prongs straddle superior haptic in a secure manner to dial lens into position in the capsular bag



## Ichikawa Double Ended ICL<sup>®</sup> Manipulator - AE-2423

Overall Length: 133 mm  
Angle to Tip: 12 mm  
Tip: 0.7 mm x 0.9 mm  
The double ended tips are in an ellipse form, the ellipse width represents the larger axis, and length represents the smaller axis.

Double ended instrument allows for manipulation from both sides. Bent tip allows an easier approach to the ICL<sup>®</sup> for better manipulation. Posterior surface of instrument is micro sandblasted.



ICL<sup>®</sup> is a registered brand of Staar



## Crandall USC Glaucoma Scleral Planer - AE-2430

Overall length: 103 mm

Angle to tip: 10 mm

Tip width: 1.00 mm

Dual cutting edges rapidly remove layers of sclera to unroof Schlemm's Canal for viscocanalostomy and other non-invasive trabeculotomy procedures



## Crandall USC Glaucoma Scleral Shaver - AE-2431

Overall length: 113 mm

Angle to tip: 10 mm

Cutting edge removes layers of sclera to unroof Schlemm's Canal for viscocanalostomy and other non-invasive trabeculotomy procedures



## Uy Femtosecond Lens Fragmentation Combo Manipulator - AE-2433

Overall Length 133 mm

Double-ended instrument featuring two ends, a chopper/stabilizer and a lens manipulator. Chopper side helps break up nucleus fragmented using a femtosecond laser. Spatulated tip helps to manipulate nuclear, epinuclear, and cortical fragments to facilitate aspiration and phacoemulsification.



## Miyoshi Sideport Manipulator - AE-2498

Ball tip diameter: 0.35 mm

Angle to tip: 1.65 mm

Features sandblasting on the ball and shaft for better control in the presence of viscoelastic



## Espallat- Deblasio Nucleus Rotator - AE-2499

Overall length: 120 mm

Angle to tip: 10 mm

Tip diameter: 0.80 mm

Rotates and manipulates nucleus and IOL, retracts iris



# PHACO MANIPULATORS

## Bechert Nucleus Rotator - AE-2500

Overall length: 110 mm  
Angle to tip: 7 mm  
Tip width: 0.70 mm  
Blunt forked tip



## Jaffe-Bechert Nucleus Rotator -AE-2501

Overall length: 115 mm  
Angle to tip: 9 mm  
Tip width: 0.70 mm



## Koch II Phaco Manipulator - AE-2502

Overall length: 116 mm  
Tip width: 0.80 mm  
Combination of smooth tip and two grooves increases versatility without compromising safe use in the posterior chamber



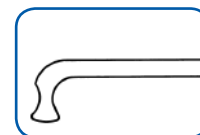
## Yankee Nucleus Rotator - AE-2503

Overall length: 125 mm  
Tip diameter: 1.00 mm



## Graether Side Port Manipulator - AE-2504

Overall length: 115 mm  
Tip diameter: 0.35 mm  
For stretching iris through paracentesis



## Koch Phaco Manipulator & Splitter - AE-2505

Overall length: 115 mm  
Tip width: 0.80 mm  
Thin, smooth Spatula can push, rotate, lift, and split nucleus. Also protects posterior capsule and cornea





# PHACO MANIPULATORS

## Mandel Nucleus Rotator - AE-2506

Overall length: 115 mm  
Angle to tip: 10 mm  
Tip diameter: 0.70 mm



## Kellan Nucleus Segmentor - AE-2507

Overall length: 120 mm  
Paddle length: 1.80 mm  
Paddle-shaped to split nucleus



## Tennant Nucleus Manipulator - AE-2508

Overall length: 120 mm  
Angle to tip: 10 mm  
Tip diameter: 0.65 mm  
To split and rotate nucleus



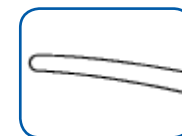
## Little Malleable Spatula - AE-2509

Overall length: 125 mm  
Tip width: 0.50 mm  
Malleable tip allows for customized configuration to manipulate nucleus



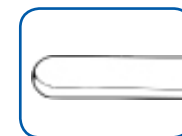
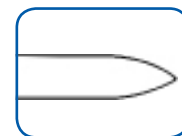
## Johnson Spatula - AE-2511

Overall length: 115 mm  
Angle to tip: 10 mm  
Tip width: 0.30 mm  
With sharp tip for nucleus manipulation and stab technique



## Maloney Nucleus Rotator AE-2512 With Spatulated tip

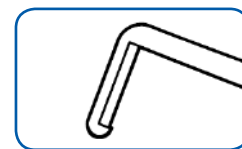
AE-2513 With forked tip  
Overall length: 135 mm  
Angle to tip: 12 mm  
Tip width: 0.50 mm (Spatula) 0.60 mm (fork)  
For manipulating hard and soft nuclei





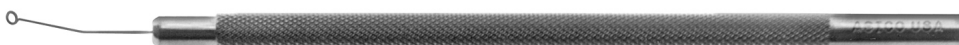
## Nagahara Phaco Chopper - AE-2515

90° Cutting Edge  
 Overall length: 110 mm  
 Cutting Edge length: 1.50 mm  
 Can be used by right or left-handed surgeon



## Nordan Capsule Elevator - AE-2516

Overall length: 110 mm  
 Angle to tip: 10 mm  
 Tip diameter: 1.50 mm  
 For in-the-bag IOL placement



## Nagahara Phaco Chopper IV

**AE-2517** 60° cutting edge

**AE-2517A** 60° cutting edge, curved

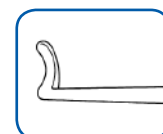
**AE-2517L\*** 60° cutting edge, left handed

Overall length: 110 mm  
 Cutting Edge length: 1.50 mm  
 60° cutting edge cuts in the direction of the phaco hand piece  
 \*AE-2517L is designed to be used in the right hand for left-handed surgeons



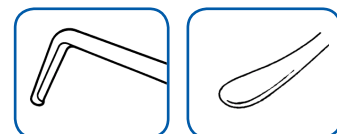
## Lieberman Micro-Finger - AE-2518

Overall length: 136 mm  
 Angle to tip: 10 mm  
 Tip width: 0.40 mm and 0.70 mm  
 Stabilizes, positions, retracts, and lifts lens to facilitate efficient emulsification. Iris Spatula is useful for various manipulations in anterior segment surgery



## Koch-Nagahara Spatula & Chopper - AE-2520

Overall length: 130 mm  
 Cutting edge: 1.50 mm  
 Cutting edge of chopper is 60° to cut toward phaco tip; manipulator pushes, rotates, lifts, and splits, also serves as a protective barrier between phaco tip and posterior capsule



# PHACO MANIPULATORS/ CHOPPERS

## Kammann Prechopper

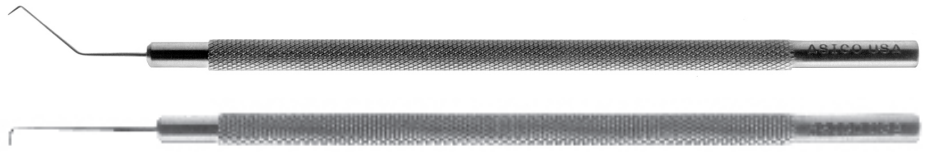
**AE-2521** Angled, superior

**AE-2522** Straight, temporal

Overall length: 112 mm

Cutting edge: 2.20 mm

Divides nucleus into 4 quadrants before phaco to significantly reduce phaco time and risk of damaging endothelium



## Minami "M" Hook™ - AE-2523

Overall length: 118 mm

Tip diameter: 0.25 mm

Chopper, splitter, dissector, Spatula, retractor, protector, and manipulator



## Friedman-Koch Universal Chopper & Spatula - AE-2524

Overall length: 134 mm

Cutting edge (chopper): 1.50 mm

Tip width (manipulator): 0.80 mm

Double cutting edges of chopper enhance chopping in either direction and can be used by right or left handed surgeon; Indented manipulator retracts and stretches iris as well as provides greater traction for manipulation of nucleus



## Akahoshi Nucleus Sustainer - AE-2525

Overall length: 115 mm

Tip diameter: 0.50 mm Angle to tip: 1.65 mm

Protects zonules when used with Akahoshi

Prechoppers on nuclei of grades 3-5

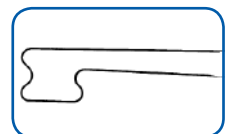


## Friedman Phaco Manipulator - AE-2526

Overall length: 111 mm

Width: 0.50 mm

Broad surface facilitates nucleus cracking; Curved ends act as pushpull tool for manipulation of iris, IOL, nucleus, or anterior capsule



# PHACO MANIPULATORS/ CHOPPERS

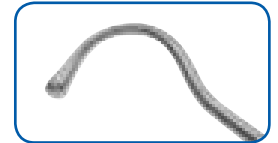
## Olson Phaco Chopper - AE-2527

AE-2527L For left handed surgeons  
Overall length: 112 mm  
Cutting edge: 2.00 mm  
60° cutting edge. Bottom plate hugs posterior surface of nucleus to efficiently cleave nucleus. Protrusion on front surface of chopper retract iris and anterior capsule



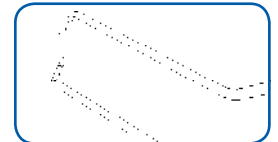
## Koch-Minami Chopper – AE-2528

Overall Length: 115 mm  
Shaft Length: 16 mm  
Tip Bend: 135°  
Most versatile second hand instrument that can be used as a divider, dissector, manipulator and protector. Smooth round tip does not damage posterior capsule.



## Nagahara Karate Chopper - AE-2529

Overall length: 110 mm  
Tip length: 1.50 mm  
For quick-chop technique on nuclei of grades 3 or higher; spear-shaped tip chops nucleus. Recommended to set phaco at aspirate mode to fixate nucleus with phaco tip



## Akahoshi Nucleus Manipulator – AE-2530

Overall Length: 115 mm  
Tip Diameter: 0.40 mm  
Angle to Tip: 1.90 mm  
Long tip supports even the deepest part of nucleus. Small microball is easy to manipulate and used through sideport. Also used in Dr. Akahoshi's Counter Traction Implant Technique for the new Micro Coaxial cataract surgery. Counter force is provided by the sustainer during this technique at the sideport incision, while the IOL is injected through the main incision. This technique enables a 6 mm optic lens to be implanted through a 2.2 mm incision or more.



## Akahoshi Nucleus Manipulator (Myopic eye) – AE-2530L

Overall Length: 116 mm  
Tip Diameter: .40 mm  
Angle to Tip: 2.75 mm  
Long tip supports even the deepest part of nucleus.



## Vukich ICL®/Toric Lens Manipulator – AE-2531

Overall Length: 110 mm

Shaft Length: 8 mm

Designed to allow gentle positioning of the ICL® haptics under the iris plane. Tip maximizes surface contact with the ICL® which allows for easy manipulation. Posterior surface of the tip is micro sandblasted to achieve added surface contact.



ICL® is a registered brand of Staar Surgical.



## Miyoshi Chopper – AE-2532

Overall Length: 113.3 mm

Tip Length: 1.25 mm

Angle to Tip: 1.8 mm

Ergonomic design allows ease of chopping with minimal movement. The chopper's angle and rounded tip makes it easy to separate the posterior plate of the nucleus. The cutting edge length of 1.25 mm and round tip prevents possible damage to the equatorial posterior capsule.



## Miyoshi Chopper II – AE-2532S

Overall Length: 113 mm

Angle to Tip: 11.5 mm

Cutting Edge Length: 1.6 mm

Smaller bent shaft allows for easier manipulation through a 0.6 mm sideport incision. Ergonomic design allows ease of chopping with minimal movement. The chopper's angle and rounded tip makes it easy to separate the posterior plate of the nucleus. The cutting edge length of 1.25 mm and round tip prevents possible damage to the equatorial posterior capsule.



## Nagahara Tomahawk Chopper - AE - 2533

Overall length: 116 mm, 45 degree angle.

Distinct shape of the Spatula allows for wider contact of the nucleus.



## Inamura Chopper - AE - 2534

Overall length: 110 mm,

Angle at 135 degrees, Bend to tip: 11 mm

Angled tip is used to elevate the nucleus away from the posterior capsule toward the phaco tip for phaco efficiency. Smooth, angled edges offer the utmost protection to the posterior capsule while manipulating the nucleus



## Akahoshi Nucleus Ring Sustainer – AE-2536

Ring Diameter: 1.0 mm

Angle to Tip: 2.5 mm

Used to manipulate the hard nucleus during the Prechopping technique. Features a ring to fit under the posterior plate of the nucleus and secure the lens. Instrument is designed for maximum protection of the posterior capsule.



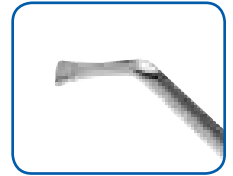
## Lane Quick Chopper – AE-2537

Overall Length: 115 mm

Shaft Length: 10 mm

Tip Length: 10 mm

A broad "ax-like" tapered end which penetrates even the hardest nuclei while avoiding the sharp "point-like" ends of some quick choppers. The broader tip also aids in chopping softer nuclei that a sharper chopper might otherwise "cheese wire" through. The leading cutting edge is angled so that after initial penetration of the chopper the lens can also cut in a horizontal direction.



## Harry-Yamada Phaco Chopper – AE-2539

Overall Length: 112 mm

Blade Length: 20 mm

Tip Width: 0.45 mm

Sharp, polished edge on right side of the chopper tip easily cuts soft to moderate nuclei. Manipulation of the nucleus is easily done with its broad tip face. The lower end of the tip and left side of the chopper is blunt, which prevents anterior and posterior capsular damage.



## Lewis Lens Loop - AE-2540

Overall length: 139 mm

Loop length: 1.0 mm

Width: 4.0 mm



## Tan Micro Lamellar Dissector – AE-2541

Overall Length: 111 mm

Used to initiate dissection of the anterior 1/2 corneal stroma after partial trephination of about 2/3 corneal thickness in DALK procedure.



## Tan Large Lamellar Dissector – AE-2547

Completes dissection of the anterior 1/2 corneal stroma after initial dissection with the micro lamellar dissector in DALK procedure.



# CHOPPERS/ LENS LOOP

## Iori Phaco Easy Cutter – AE-2542

Overall Length: 114 mm  
Shaft Length: 17.5 mm  
Tip Width: 0.54 mm

Designed for Tilt & Crack technique which allows the surgeon to perform phacoemulsification in less time. Can be used for splitting both medium and hard nuclei.



## Naomi Phaco 3D Divider – AE-2543

Length of the Angle to Base: 10 mm  
Tip Length: 1.5 mm  
Tip Width: 0.8 mm

The “3D” part of the chopper has three surfaces for nucleus contact, allowing for effective manipulation of the nucleus.



## Nagahara-Ahn Small Pupil Chopper – AE-2544

Overall Length: 115 mm  
Modified Nagahara Chopper with shorter, 1.25 mm inner cutting edge. Notch opposite the cutting edge is for retraction of small pupils or floppy iris syndrome.



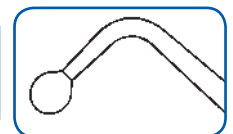
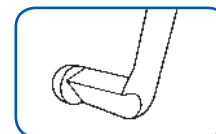
## Morrison Lens Loop - AE-2545

Overall length: 145 mm  
Width: 4.30 mm  
With olive tip



## Lubeck Horizontal Chopper/Nucleus Sustainer – AE-2546

Overall Length: 116 mm  
Sustainer Tip Diameter: 0.4 mm  
Chopper Angle to Tip: 60°  
Nagahara chopper on one end to chop towards the phaco handpiece (AE-2517). Akahoshi sustainer on the other end to rotate and manipulate the lens.



## Aguilar Sustainer – AE-2548

Overall Length: 117 mm

Paddle Width: 0.7 mm

Works with Aguilar Prechopper in counter prechopping technique.

Designed to take into account the peripheral curvature of the lens.

Holds the lens securely during the counter traction technique.

DVD  
AVAILABLE



## Tan Marginal Dissector – AE-2549

Overall Length: 115 mm

Used to effectively separate any remaining stromal from the Descemet's membrane at the periphery of the big bubble in DALK procedure.

DVD  
AVAILABLE



## New Orleans Lens Loop -AE-2550

Overall length: 734 mm

Width: 4.80 mm



## Escaf Nucleus Sustainer – AE-2551

Overall Length: 123 mm

Tip Diameter: 0.4 mm

Used through the sideport incision, after hydrodissection. Holds the nucleus when making the fracture with the ultrachopper tip in hard cataracts. Also enhances the fracture of the posterior plaque.



## Escaf Nucleus Manipulator – AE-2552

Overall Length: 123 mm

Tip Width: 1 mm

Tip Length: 1.5 mm

Used post-nucleus fracture. Works through the sideport incision in guiding fragments of chopped nuclei towards the phaco tip. Helps protect the posterior capsule.



# CHOPPERS/ LENS LOOP/SPOON

## Escraf Nucleus Divider – AE-2553

Overall Length: 123 mm

Tip Width: 0.55 mm

Tip Length: 1.4 mm

Used through the sideport incision. Helps initially fracture the nucleus into 2 parts. Can then be used to further divide the nucleus based on surgeon's preference.



## Kansas Lens Loop - AE-2554

Overall length: 135 mm

Width: 3.0 mm

For small incision nucleus fragment removal.

With serrations

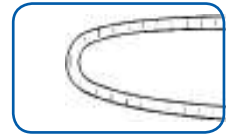


## Wilder Lens Loop - AE-2556

Overall length: 137 mm

Width: 3.60 mm

With serrations



## Barraquer Lenticular Spoon - AE-2560

Overall length: 120 mm

Diameter: 8.25 mm

For corneal transplant surgery



## Culler Lens Spoon - AE-2561

Overall length: 133 mm

Width: 3.50 mm

Sterling silver





# CHOPPERS, MANIPULATORS, SPOONS

## Probst LASIK Tape Spatula - AE-2565

Overall length: 135 mm  
Tip width: 0.50 mm  
Tucks surgical tape or eye drape into fornices covering eyelashes and meibomian gland orifices



## Kirby Lens Loop & Muscle Hook - AE-2567

Overall length: 150 mm  
Loop size: 4.80 mm



## Gills-Welsh Lens Loop & Probe - AE-2568

Overall length: 127 mm  
Loop size: 5.00 mm  
With serrations and olive tip



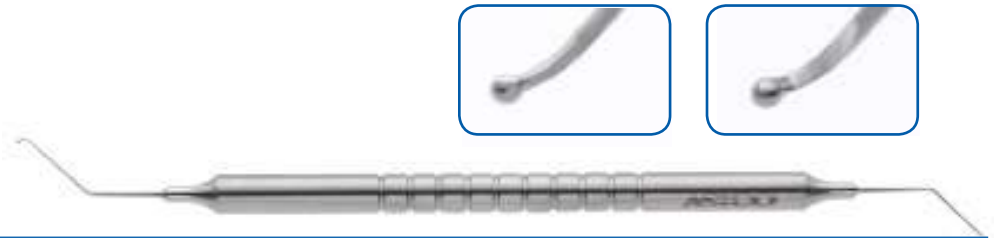
## Bunge Evisceration Spoon - AE-2570

Overall length: 136 mm  
Tip diameter: 8.00 mm



## Aguilar Chopper - AE-2571

Overall length: 110 mm



## Fonseka Chopper - AE-2572

Overall Length: 114 mm  
Unique tip features a groove which allows the chopper to pivot and penetrate dense nuclei (grades 3-5) without causing the nucleus to flip and is ideal for fixating nuclear fragments during emulsification. Works as a vertical and a horizontal chopper. Notch at the front of the chopper can be used to retract small pupils.



# CHOPPERS/SPOON

## Chang DUO Quick Chopper – AE-2573

Overall Length: 120 mm

Shaft Length: 9 mm (each side)

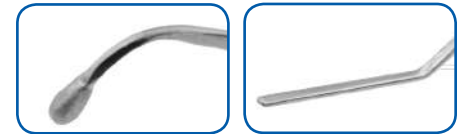
The Chang combination chopper combines horizontal and vertical chopper tips on opposite ends to facilitate the use of both techniques during the same case. The horizontal chopper is a modified Lieberman microfinger that has been elongated for chopping. The curve of the tip is designed to conform to the equator of the nucleus. The vertical tip is sharpened to better incise into brunescant nuclei.



## Espiritu-Caparas Chopper – AE-2574

Overall Length: 137 mm

Verges-style horizontal chopper on one end, 0.8 mm spatula on other end.



## Asami Chopper – AE-2575

Overall Length: 118 mm

Tip Width: 0.46 mm.

A chopper and divider all in one instrument. The inside of the tip is curved to easily dig the nucleus from the equatorial segment, thus making it easier to do phaco chop surgery. The outside of the tip is rounded to prevent damage to the capsule.



## Crandall-Nagahara Chopper – AE-2576

Overall Length: 114 mm

Angle to Tip: 10 mm

Cutting Edge Length: 1.5 mm

60° inside cutting edge. Unique 110° angled tip allows better visibility during phacoemulsification.



## Wells Enucleation Spoon - AE-2580

Overall length: 147 mm



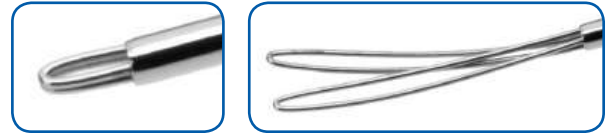
# PHACOSECTION/OZ MARKERS

## Akahoshi-Wahab Pars Planar Nucleus Levitator – AE-2590

20 Gauge

Overall Length: 150 mm

Holds nucleus in a more stable manner. Helps move nucleus to the bag. Nucleus is held during Phaco and Vitrectomy. Infusion is not required. Can be used to lift the nucleus from the retina - avoiding PFCL and its complications. Instrument design features two loops, forming a wire bowl. Can be easily opened and closed with thumb. Allows passive irrigation.



## Kansas Phacosection Nucleus Trisector

**AE-2610** Right handed surgeon, 3.00 mm width

**AE-2611** Left handed surgeon, 3.00 mm width

**AE-2612** Kansas II Right handed surgeon, 2.50 mm width

Overall length: 105 mm

For manual small incision surgery to divide nucleus into 3 pieces



## Kansas Phacosection SM Nucleus Bisector - AE-2615

Overall length: 110 mm

Angle to tip: 10 mm

For manual small incision surgery to divide nucleus into 2 pieces



## Kansas Nucleus Vectis

**AE-2618** For right handed surgeon

**AE-2619** For left handed surgeon

**AE-2620** Kansas II for right handed surgeon

Overall length: 115 mm

Angle to tip: 16 mm

Used as a cutting board for Kansas nucleus trisector



## Hoffer Optic Zone Marker

**AE-2700** 3.00 mm

**AE-2704** 4.00 mm

**AE-2708** 5.00 mm

**AE-2709** 6.00 mm

**AE-2710** 7.00 mm

**AE-2713** 9.00 mm

Overall length: 100 mm

With fine cross hairs and low profile



# OZ MARKERS

## John DXEK/DSAEK Double Ended Marker 8/9 mm – AE-2712

Overall Length: 110mm

This marker is used to mark recipient and donor cornea at 8 or 9 mm based on surgeon's preference.



## Machat PRK Optical Zone Marker - AE-2714

Overall length: 82 mm

9.0 mm diameter for hyperopia

6.6 mm diameter for myopia

Incises epithelium to provide excellent starting point for mechanical epithelial debridement



## Machat PRK Optical Zone Marker - AE-2715

Overall length: 93 mm

Diameter: 6.6 mm

Incises epithelium to provide excellent starting point for mechanical debridement.

For myopia



## Berkeley- Thornton Double-Ended Optic Zone Marker

AE-2720 3.00 mm - 3.25 mm

AE-2722 4.00 mm - 4.25 mm

AE-2723 4.50 mm - 5.00 mm

AE-2724 6.00 mm - 7.00 mm

AE-2725 5.50 mm - 5.75 mm

Overall length: 100 mm

Very low profile



# MARKERS

## ASICO CCC Double Ended Marker

AE-2728 – 5/5.5 mm

AE-2729 – 5.6/5.75 mm

Overall Length: 106.50 mm

Designed to simplify capsulorrhexis. The mark made on the cornea will reflect on the capsule at the desired size in order to perform anterior capsule opening.



## Grandon T-Marker

AE-2730 2.0 mm

AE-2731 2.5 mm

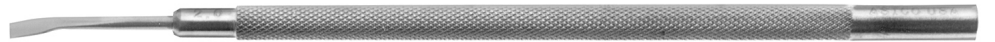
AE-2733 4.0 mm

AE-2734 5.0 mm

Overall length: 115 mm

Angle to tip: 6 mm

For correction of astigmatism

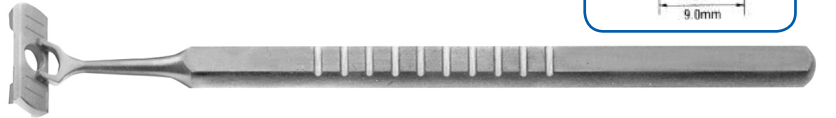
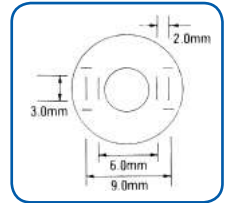


## Nordan-Mini-Ruiz Marker - AE-2736

Marks at 6.0 mm and 9.0 mm OZ

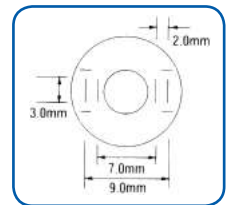
Overall length: 100 mm

For correction of astigmatism



## Nordan Mini-Ruiz Marker - AE - 2737

7.0/9.0 mm



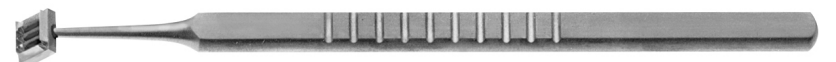
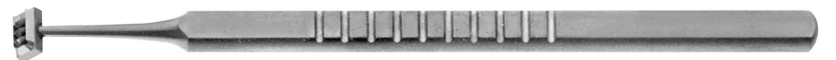
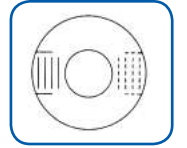
## Ruiz Marker

AE-2738 1.5 mm

AE-2739 3.5 mm

Overall length: 98 mm

Marker has to be used on the right and left side



# MARKERS

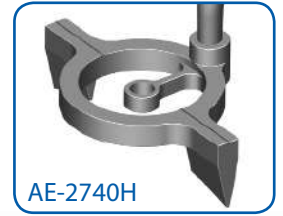
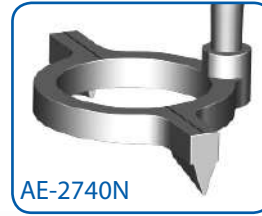
## Nuijts-Solomon Toric Axis Marker w/Peg – AE-2740H

AE-2740H – with Peg

AE-2740N – without Peg

Overall Length: 103 mm

Centering peg acts as reference guide to center on the cornea or myotic pupil without compromising visibility. 5 mm circular opening. Laser lines indicate location of the marking plates.



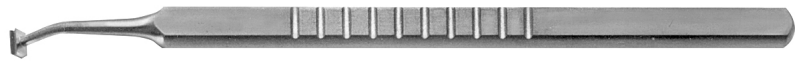
## Maloney Incision Marker

AE-2742 3.0 mm in length; 1.0 mm apart

AE-2745 1.5 mm in length; 1.0 mm apart

Overall length: 94 mm

For correction of astigmatism



## Maloney Astigmatism Keratometer - AE-2743

Projects multiple rings on cornea for qualitative evaluation of astigmatism



## Mandel Keratometer AE-2744

Overall length: 115 mm

Diameter: 3.5 mm

Projects single ring on cornea for qualitative evaluation of astigmatism



## Maloney Astigmatism Axis & Incision Marker - AE-2746

Overall length: 98 mm

Marks at 7.0 mm OZ with two

3.0 mm parallel lines, 1.0 mm apart



# MARKERS

## Greene Visual Axis Marker - AE-2747

Overall length: 115 mm  
Angle to tip: 7 mm  
Tip diameter: 0.50 mm  
To mark the position of the pupil on the cornea



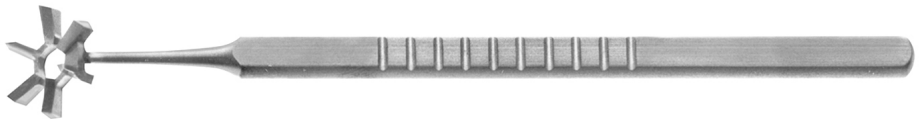
## Miyata Axis Marker – AE-2748

Overall Length: 100 mm  
Used to mark a line of 5 mm arbitrarily on the eye. Then, using the topograph in the OR, the location of the mark is determined exactly before marking intra-op marks for toric IOL implantation.



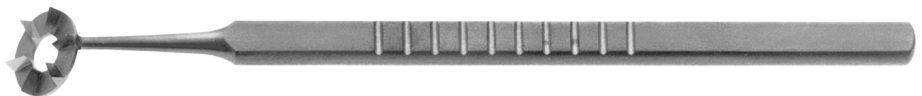
## Radial Incision Marker - AE-2750

6 blades, 9.5 mm O.D.



## Thornton Radial Incision Marker - AE-2750L

6 blades

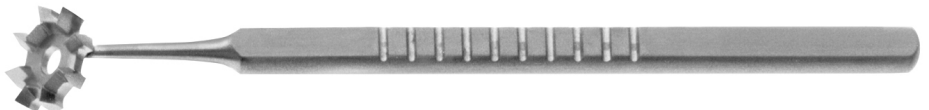
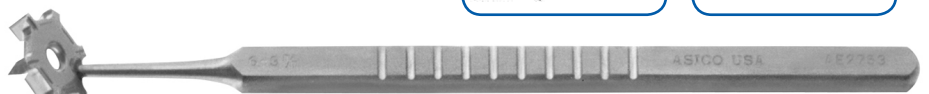
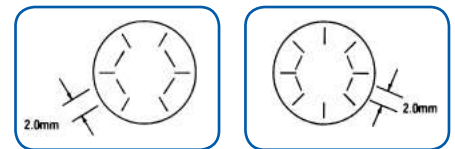


## Nordan RK/AK Marker

AE-2753 6 blades

AE-2754 8 blades

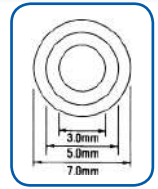
Overall length: 105 mm  
ID: 3.00 mm  
For radial keratotomy and compound myopic astigmatism



# MARKERS/FIXATION RINGS

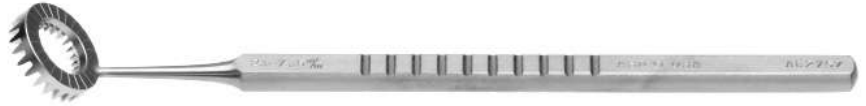
## ASICO Triple Ring Marker - AE-2756

Overall length: 100 mm  
Inner ring: 3.0 mm  
Middle ring: 5.0 mm  
Outer ring: 7.0 mm  
Low profile, ideal for pachymeter measurement



## Vinciguerra Corneal Transplant Marker - AE-2757

Overall length: 105 mm



## Anis Suture Placement Marker - AE-2759 8 blades

Overall length: 108 mm  
ID: 8.0 mm  
OD: 12.7 mm  
For suture placement in corneal grafts to reduce astigmatism



## Thornton Globe Fixation Ring - AE-2760

Overall length: 100 mm  
Diameter: 16.0 mm  
Atraumatic teeth for refractive surgery procedures



## Hofmann Thornton Globe Fixation Ring - AE-2761

Overall length: 100 mm  
Diameter: 76.0 mm  
With atraumatic teeth and swivel handle for refractive surgery procedures



## Fukuyama Fixation Ring - AE-2762

Overall Length: 104 mm  
Blade Length: 15 mm  
Thickness of Ring: 2.25 mm  
Tooth Height: 0.35 mm  
Has an open angle of 140°, allowing for ease of use of LRI diamond knife with no risk of contacting the fixation ring. Degree marks are visible every 10° at top of ring. Wide incision can be made easily.

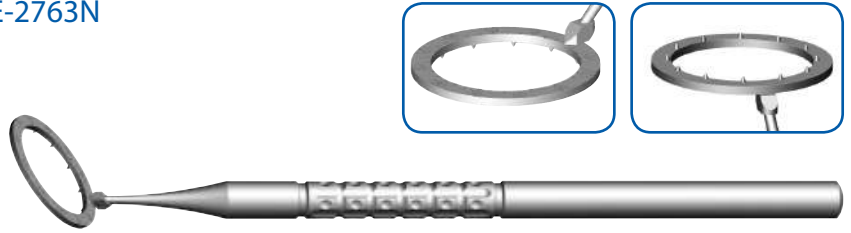




# DEGREE GAUGE/SPATULA

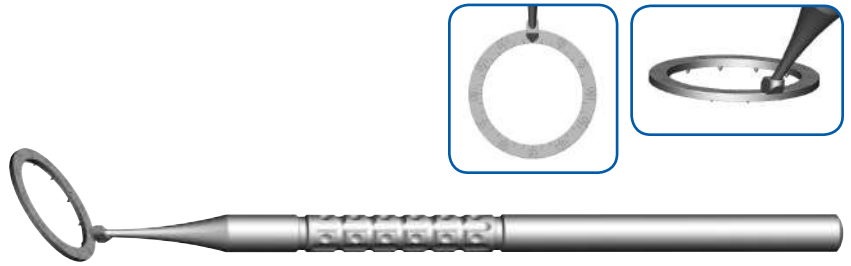
## Villasenor-Navarro Temporal Degree Gauge – AE-2763N

Overall Length: 112.0 mm  
ID: 13.0 mm  
OD: 17.0 mm  
Handle is attached at 0° to be used in temporal position. Fixation teeth for added stability. Degree marks every 10°.



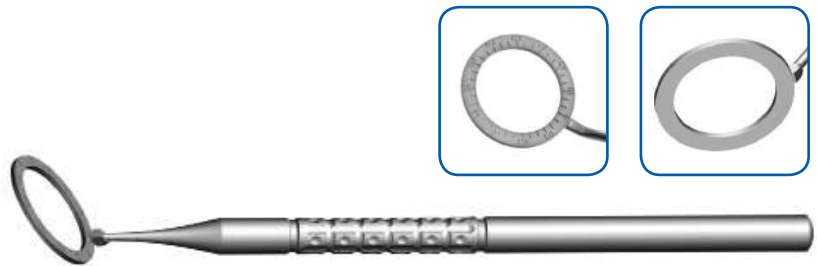
## Zaldivar Superior Degree Gauge – AE-2764N

Overall Length: 112 mm  
ID: 13.0 mm  
OD: 17.0 mm  
Handle is attached at 90° to be used from superior position. Fixation teeth for added stability. Degree marks every 10°.



## Mendez Degree Gauge – AE-2765N

Overall Length: 112 mm  
ID: 12.0 mm  
OD: 16.0 mm  
Degree marks every 10°.



## Vinciguerra PRK Spatula - AE-2766

Overall length: 120 mm  
For epithelial debridement



## Maloney PRK Spatula - AE-2767

Overall length: 120 mm  
For epithelial debridement



## Lindstrom PRK/LASIK Spatula - AE-2768

Overall length: 137 mm  
Golf club end is used for epithelial debridement during PRK and Spatula lifts flap during LASIK



# SPATULAS

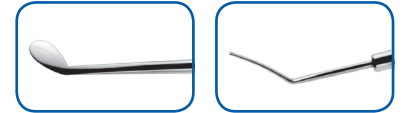
## Grandon Rotatable Radial Marker & Degree Gauge - AE-2770

Overall length: 108 mm  
ID: 4.00 mm  
OD: 12.50 mm  
For alignment of 8 radial marks on cornea



## Whitten LASIK Tool

**AE-2772** Short Handle  
Overall length: 98 mm



## **AE-2773** Long Handle

Overall length: 138 mm  
Angle to tip: 11 mm Tip width: 1.00 mm  
Smooth, blunt Spatula lifts flap; blunt golf club sweeps stromal bed for moisture



## Guell LASIK Retreatment Spatula - AE-2774

Overall length: 142 mm  
Angle to tip: 12 mm Tip width: 0.30 mm  
Thin, blunt end dissects epithelium bond. Blunt golf club end gently removes epithelial extensions in interface without damaging underlying stroma. Also for primary treatments



## Greene B-DORK Probe - AE-2775

Overall length: 119 mm  
Blunt dissection of radial keratotomy is a simple technique to gain increased effect following RK. Probe is inserted into each RK incision to break stroma-to-stroma adhesion throughout the incision



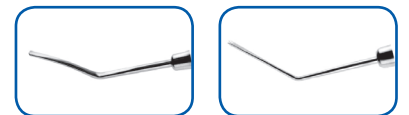
## Hersh LASIK Retreatment Spatula - AE-2776

Overall length: 120 mm  
Angle to tip: 5.5 mm Tip width: 1.0 mm  
Break epithelial flap adhesion and lifts flap without driving epithelium or debris into interface



## MacRae Flap Flipper & Retreatment Spatula - AE-2777

Overall length: 132 mm  
Angle to tip (Spatula): 10.0 mm  
Tip width: 0.90 mm  
Angle to tip ("V" end): 9.5 mm  
Tip width: 0.80 mm  
Spatula lifts, repositions, squeegees, and removes wrinkles from flap; Sharp inner edge of v-shaped end dissects epithelium bond



# MARKERS

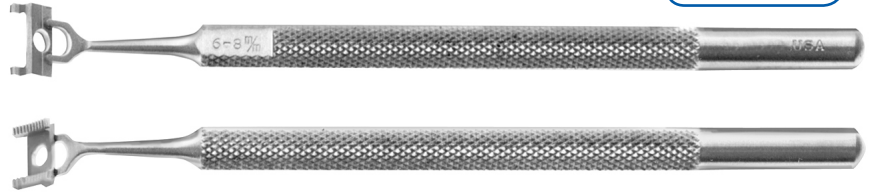
## Thornton Double Corneal Ruler

**AE-2780** 6.0 mm-8.0 mm optic zones

**AE-2781** 5.0 mm-7.0 mm optic zones

Overall length: 98 mm

Used to impress asymmetrical pattern of ruled markings on the cornea for placement of transverse incisions from 0.50 mm to 5.00 mm in length



## Slade Arcuate Marker

**AE-2782** 45°

**AE-2783** 60°

Overall length: 104 mm

OZ: 7.0 mm



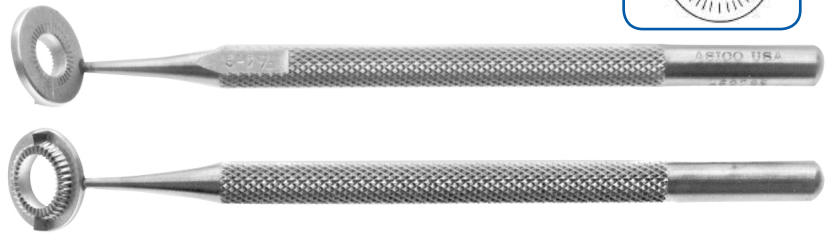
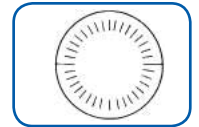
## Thornton 360 Arcuate Marker

**AE-2788** 6.0 mm internal diameter, 8.0 mm external diameter

**AE-2789** 5.0 mm internal, 7.0 mm external diameter

Overall length: 98 mm

Marks every 10°



## Price Radial Marker - AE-2795 7.0 mm

Overall length: 112 mm

To mark recipient cornea. Radial marks extend 2.0 mm outwards and remain on the remnants of the cornea after trephining. For use with Price Corneal Punch



## Nuijts-Lane Pre-op Toric Reference Marker w/Bubble – AE-2791TBL

Overall Length: 96 mm

Diameter: 15.5 mm.

Bubble level aids in accurately marking the eye temporarily.

The bubble can be replaced into the instrument after sterilization once it is cleaned with mild soap and water.

Curvature of the marking blades conform to curvature of the eye for more even and clear marks. Non-marking surface is minimized for more visibility of the cornea. Marks at the 3, 6 and 9 o'clock positions.



Bubble Level Part Only – **AE-2791BLP**

# TORIC MARKERS

## Pre-op Toric Reference Marker – AE-2793D

Overall Length: 114 mm

Marking pattern is located on both sides for marking the left and right eye temporarily. Marking plates are curved to conform to the curvature of the eye for more even and clear marks. Marks at 3, 6, and 9 o'clock.



## Pre-op Toric Reference Marker Single Side – AE-2793S

Overall Length: 102 mm

Single side open view. Marking plates are curved to conform to the curvature of the eye for more even and clear marks. Marks at 3, 6, and 9 o'clock.



## Intra-Op Toric Axis Marker II – AE-2794N

Overall Length: 109 mm

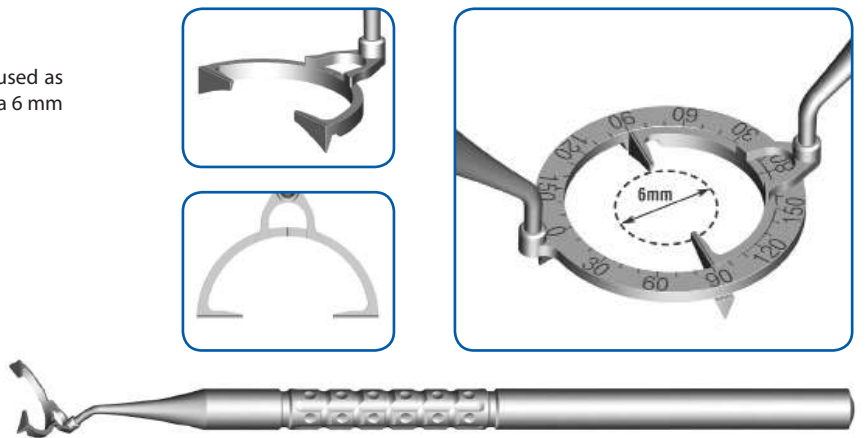
Marker and Degree Gauge in one. Cutouts for precise alignment. Markings every 5°. Inner barrel can be rotated to align to toric axis reading.



## Graether Half Circle Axis Marker – AE-2798N

Overall Length: 100 mm

Fits precisely inside Graether Degree Gauge, AE-1594N. Can be used as a pre-op and intra-op marker for Toric. Inner tip-to-tip measures a 6 mm guide for capsulorrhexis. Laser lines on top for measurement.



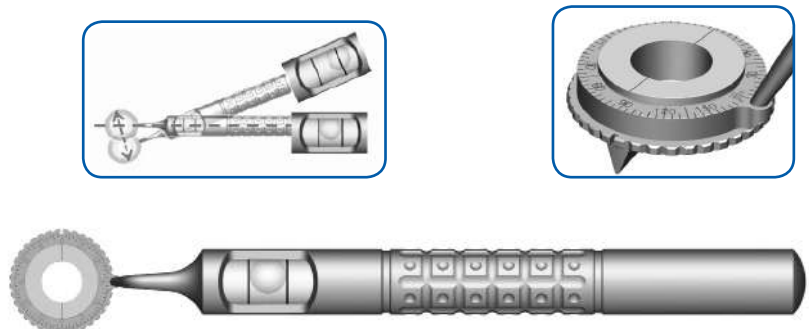
## Neuhann One Step Toric Marker – AE-2799T

Overall: 99.0 mm

ID: 5.0 mm

OD: 12.50 mm

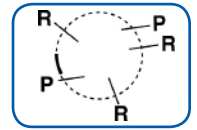
Pre-Op and Intra-Op markings all in one. Can be used for smaller eyes. Bubble level helps to identify the horizontal axis. Knurled outer barrel allows for easy rotation without touching the marking blade. ASICO's bubble level is more precise than a pendulum. This marker uses the Tabo System; there are markings of 0° and 180° at the handle and opposite the handle.



# LASIK MARKERS

## Bansal LASIK Marker - AE-2800

Overall length: 105 mm  
Noncontact OZ: 6.0 mm  
Radials: 3 Pararadials: 2



## Machat Superior Flap LASIK Marker - AE-2801

Overall length: 118 mm  
Non-cantact OZ: 3.0 mm  
Diameter of small circle: 3.25 mm  
Diameter of large circle: 3.75 mm



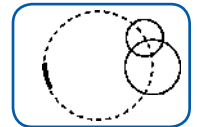
## Machat LASIK Marker - AE-2802

Overall length: 103 mm  
Two circles, 3.25 mm and 3.75 mm.  
For individual placement of marks



## Machat LASIK Marker - AE-2803

Overall length: 114 mm  
Noncontact OZ: 3.0 mm  
Diameter of small circle: 3.25 mm  
Diameter of large circle: 3.75 mm



## Alio LASIK Marker - AE-2806

Overall length: 105 mm  
Noncontact OZ: 4.0 mm  
Radials: 1 Pararadials: 1  
OD: 11.5 mm  
Outer circle to align suction ring



## Manche LASIK Marker - AE-2807

Overall length: 102 mm  
Noncontact OZ: 4.0 mm  
Radials: 2 Pararadials: 2



## Christenbury LASIK Marker AE-2808

Overall length: 102 mm  
 Noncontact OZ: 3.0 mm  
 Radials: 3 Pararadials: 1  
 With centering peg



## Perone LASIK Marker - AE-2809

Overall length: 104 mm  
 Non-contact OZ: 3.0 mm  
 Radials: 1 Pararadials: 1  
 Outer ring: 10.5 mm to align suction ring



## Koch LRI Marker - AE-2811

Overall length: 97 mm  
 ID: 10.00 mm OD: 13.00 mm  
 For limbal relaxing incisions. Marks chord lengths of 4.5 mm, 6.0 mm, & 8.0 mm



## Koch LRI Marker II – AE-2811S

Overall Length: 102 mm  
 Marks in Degrees of 45°, 60° and 80°  
 Diameter: 10.5 mm

Designed for LRI. Features C-shaped diameter of 10.5 mm. Alignment mark on the anterior surface is used to align the marker with the steepest meridian of the cornea. Indents 6 symmetrical degree lengths of 45°, 60° and 80° for corrections of 1.0 and 2.0 diopters of astigmatism.



## Fukuyama LRI Marker (60°) – AE-2812

Overall Length: 107 mm  
 Outer Diameter 11.6 mm  
 Diameter of Hole in Marker: 3 mm

Measures incision size by degrees instead of chord length to account for varying cornea size. Marks every 10° for a total of 60° from the 9 mm–11 mm diameter of the cornea. Incision is made at the limbus with a depth of 70–75% of the cornea thickness. Two fixed reference points mark 90° from the steepest meridian of the cornea.

DVD  
 AVAILABLE



## Akura LRI Marker – AE-2813

Overall length: 101 mm



## Kraff-Zaldivar LRI Marker – AE-2814

Overall Length: 102 mm

Marks in Millimeters of 5.5 and 7.5

Diameter: 10.5 mm

Designed for LRI. Features C-shaped diameter of 10.5 mm. Alignment mark on the anterior surface is used to align the marker with the steepest meridian of the cornea. Indents 4 symmetrical chord lengths on the cornea. The first is 5.5 mm long and the second is 7.5 mm long, for corrections of 1.0 and 2.0 diopters of astigmatism, respectively.



## DeBlasio LASIK Marker – AE-2816

Overall length: 94 mm,  
45 degree angle

Designed to mark the center of the pupil with a small dot, facilitating centration of the microkeratome, and therefor, laser ablation



## Hoffman Buratto LASIK Marker – AE-2817

Overall length: 103 mm



## Matos LASIK Marker – AE-2818

Overall length: 109 mm, 45 degree angle

Has a design that places small circular marks on the corneal scleral limbus that lasts upto 1 hour before fading. The marks are easy to identify and distinguish from other markings you may use.



## Buratto Superior Flap Holder - AE-2819

Diameter: 20 mm

Elevates superior flap to avoid contact with conjunctiva, cilia, eyelids, and secretions of the meibomian glands during laser ablation





# SPATULAS

## Buratto Flap Retractor & Protector - AE-2821

Overall length: 1.18 m  
Length of edge: 8.0 mm  
Retracts hinge for maximum exposure of bed and protects flap from laser ablation



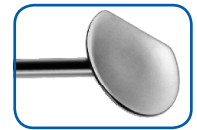
## Zaldivar LASIK Spatula - AE-2822

Overall length: 120 mm  
Angle to tip: 12 mm  
Tip width: 0.50 mm  
Lifts, repositions, and squeezes flap



## Arbelaez LASIK Spatula - AE-2823

Overall length: 140 mm  
Tip width: 1.0 mm  
Spatula lifts flap; protector shields flap and controls interface hydration in nasal or superior position



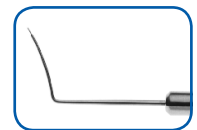
## Alia LASIK Spatula - AE-2824

Overall length: 155 mm  
Used to manipulate and lift LASIK flap. Broad end protects hinge.  
Also used for retreatments



## Maloney Flap Flipper & Squeegee - AE-2825

Overall length: 114 mm  
Angle to tip: 1.1 mm  
Tip width: 0.50 mm  
Flat profile at tip lifts flap, while round part of Spatula removes wrinkles and excess fluid under cap, and repositions flap



## Slade Probst LASIK Spatula - AE-2826

Overall length: 130 mm, Tip length: 10 mm, Tip bend: 135 degrees  
Used for protection of the flap during Hyperopic ablations. Spatula width provides extra flap protection even with small movement of the instrument. Length of the Spatula allows distal end to rest against a fixation ring the suction ring (with suction off) during ablation to allow complete stability of both instruments. Ideal for nasal and superior hinges





## Lehmann Intralase® Spatula – AE-2827

Overall Length: 113 mm  
 Shaft Length: 10 mm  
 Tip Length: 11 mm

The smooth tip enables easy entry under the flap without damage or disruption to the adjacent epithelial. Has minimal technique learning curve and greatly eases surgeon's ability to lift the flap while keeping the bed dry. Spatula works well to find and mark or begin entry into the flap margin for enhancements.



## Lehmann Intralase® Spatula with Semi-Sharp Edge – AE-2827S

Intralase® is a registered trademark of AMO.



## Holladay Retreat LASIK Spatula - AE-2828

Overall Length 119 mm  
 Spatula effectively lifts the flap and separates the epithelium for retreatment procedures.



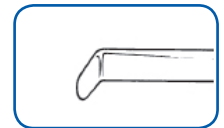
## Fukuyama LRI Marker - AE-2829

120 deg  
 Overall length: 105 mm : 105mm



## Machat LASIK Retreatment Spatula - AE-2830

Overall length: 125 mm  
 Angle to tip: 10 mm  
 Angulated tip separates and breaks epithelium bond, Spatula lifts flap



## Vidaurri LASIK Retreatment Spatula - AE-2831

Overall Length 119 mm  
 Facilitates the enhancement procedure without making a new cut. Bullet shaped tip provides easy entry under the flap without damaging the epithelium or dragging epithelium into the interface. Sharp, flat, posterior side breaks the epithelium all the way around the flap.



## Slade LASIK Retreatment Spatula AE-2832

**AE-2833** With Serrations  
 Overall length: 120 mm  
 Angle to tip: 12 mm  
 Tip width: 1.3 mm



# SPATULAS

## Maloney Enhancement Hook - AE-2834

Overall length: 113 mm,

Tip length: .5 mm, Shaft length: 18 mm

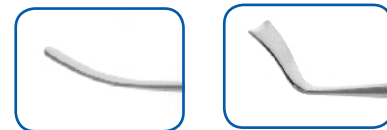
Modification of a Sinskey Hook, with a smaller, sharper point and a tapered shaft that resists bending. Used to initially lift the flap at the slit lamp.



## Kritzinger-Updegraff (KU) LASIK Flap Elevator & Manipulator - AE-2835

Overall length: 127 mm

Elevator cuts clean edge through the epithelium, manipulator lifts flap

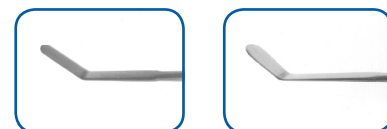


## Herzig Elevator & Retreatment Spatula - AE-2836

Overall length: 150 mm

Angle to tip: 8.0 mm (narrow), 6.0 mm

(broad) Broad oval semi-sharp tip separates epithelium, narrower edge used to lift flap



## Manche LASIK Spatula - AE-2837

Overall length: 113 mm

Angle to tip: 12.0 mm

Tip diameter: 0.20 mm

For primary and retreatment procedures.

Angled tip separates edge of healed primary flap and convex shape facilitates lifting and replacing flap. Also functions as squeegee to remove fluid beneath flap.



## Lane LASIK Retreatment Spatula - AE-2838

Overall length: 115 mm, Tip length: 8.5 mm, Shaft length: 16 mm, Tip angled at 115 degree

This is a useful tool in assisting lifting the lamellar flap during enhancement procedures. The fine "chisel like" Spatula tip provides the perfect degree of sharpness to initiate identifying and lifting the flap edge without cutting the delicate tissue.



## Misra Koch LASIK Retreatment Spatula - AE-2839

Overall Length 114 mm

The Spatula features an elongated, tapered tip that facilitates smooth entry under the flap edge by merely indenting gently then advancing towards the center of the cornea.



# SPATULS/ MARKERS

## Herzig LASIK Depressor - AE-2840

Overall length: 116 mm

Tip diameter: 3.2 mm

Smoothly adheres flap to stromal bed in pupillary area, reducing risk of striae or irregular astigmatism in the visual axis



## Buratto Striae Probe - AE-2841

Overall length: 117 mm

Tip diameter: 0.75 mm

Tests adhesion of LASIK flap to stroma



## Yaghouti LASIK Polisher

AE-2842 Fine Grade

AE-2843 Medium Grade

Overall Length: 140 mm

Tip diameter: 1.85 mm

Gently removes debris from posterior side of the flap and for management of epithelial ingrowth



## Pineda LASIK Iron - AE-2844

Overall length: 140 mm

Removes wrinkles from flap



## Milne CK Light Touch Marker - AE - 2845

6/7/8 mm

Overall length: 103 mm, Outer Diameter: 8.5 mm, Inner Diameter: 5 mm.

Unique extension design allows re-marking of cornea in offset manner of 22.5 degrees to original CK treatment marks (when performing a CK enhancement).



## Milne CK Light Touch Marker - AE-2846

6.5/7.5/8.5 mm

Overall length: 103 mm,

Outer Diameter: 8.5 mm, Inner Diameter: 5 mm.

Unique extension design allows re-marking of cornea in offset manner of 22.5 degrees to original CK treatment marks (when performing a CK enhancement).



# MARKERS

## Milne CK Light Touch Marker - AE-2847

7/8 mm

Overall length: 103 mm, Outer Diameter: 8.5 mm, Inner Diameter: 5 mm

Unique extension design allows re-marking of cornea in offset manner of 22.5 degrees to original CK treatment marks (when performing a CK enhancement).



## Modi Low Profile Intra-Op Toric Axis Marker – AE-2848N

Overall Length: 103 mm

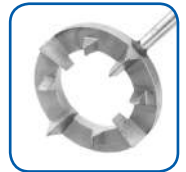
Marker and Degree Gauge in one. The thin profile and small, 12.5 mm outer diameter make this instrument lightweight and easy to use on small orbits. Laser lines indicate location of the marking plates. Outer edge is knurled for easy rotation with one hand.



## John ALK Marker – AE-2849

Overall Length: 106 mm

Helps in uniform suture placement to attach the donor cornea to the anterior recipient corneal bed.



## Trokel Hyperopia Conformer - AE-2850

Overall length: 93 mm, Outer diameter: 76 mm,

Inner diameter: 3.7 mm, 45 degree angle

esigend for hyperopic LASIK procedures to reduce regression, posterior curvature is designed to match the hyperopic ablation zone. Visibility during application is increased by the central opening. Applied to cornea for 15 seconds after LASIK. Increases the diameter of the steeper area.



## Kobayashi DSAEK Scleral Marker – AE-2851

Overall: 106.5 mm

Diameter: 16 mm

Kobayashi 16 mm DSAEK donor marker is a large marker with a diameter of 16 mm. This size of large corneoscleral rim is required for holding the donor cornea on the artificial anterior chamber for microkeratome cut. This marker is useful when the eyebank technician makes the corneoscleral rim for DSAEK.



# MARKERS

## Miyata Toric Axis Marker - AE-2852

optic zone of 5 mm

The marker has 3 fixing points instead of 2, allowing for more stability. Outer diameter is 10.4 mm which allows for precise alignment with the Miyata degree gauge, AE-1591.



## Kobayashi DSAEK Scleral Marker - AE-2853

Double ended DSAEK scleral marker with one end 18mm and the other 20mm



## Miyata LRI Marker

AE-2858 8.5 mm

AE-2859 9mm

Overall length : 101 mm



## Miyajima LASIK Caliper - AE-2860

Overall length : 105mm : 104 mm



## Zaldivar LRI Axis Marker – AE-2862

Marks in Millimeters of 5.5 and 7.5

Created to Mark the Cornea at 10.5 mm

Overall Length: 105 mm

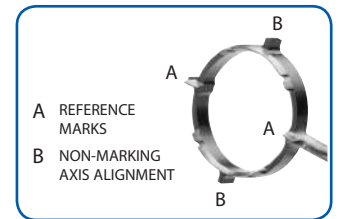
## Koch LRI Axis Marker – AE-2863

Marks in Degrees of 45°, 60° and 80°

Created to Mark the Cornea at 9.5 mm

Overall Length: 105 mm

Marks are located on the 90° meridian as reference points for marking in the upright position and referencing in the recumbent position. This helps to avoid error due to the torsional movement of the globe. Corrects astigmatism of one and two diopters. Designed with an axis extension at the non-marking axis to easily align with the steepest meridian while working with a degree gauge for precise alignment.



## Arnold AK Marker – AE-2865

Overall Length: 115.40 mm

The OZ diameter of 9.0 mm avoids the limbal vessels which are routinely cut with a 10.0–10.5 mm marker. The astigmatic effect is achieved with shorter incisions than required with limbal incisions. Because the diameter is consistent at 9.0 mm, not at the variable limbus diameters, and all incisions are regularly placed in cornea, not the vascular limbus, the results are more consistent. Rotate the handle of the instrument to bring the marking side down to the cornea.



## Kobayashi DSAEK Marker – AE-2868

Overall Length: 98 mm  
 Designed to mark the cornea in dots along the circumference to prevent the ink from running.



## Tsubota DLK Spatula – AE-2870

Overall Length: 122 mm  
 Shaft Length: 25 mm  
 Tip Width: 0.6 mm  
 Semi-sharp, ideal for separating the stroma from the Descemet's membrane during DLEK/DSAEK/DXEK procedures when Descemet's membrane is not completely removed or separated from the stroma.



## John Dextome DMEK/DSAEK Spatula – AE-2872

Overall Length: 110 mm  
 Tip Length: 16 mm  
 Single instrument allows for both Descemetorhexis and Descemet's membrane detachment and subsequent removal. Unique multi-curve design facilitates complete scoring of Descemet's membrane 360°, without exiting the anterior chamber.



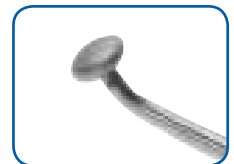
## John DXEK/DSAEK Descemet's Stripper – AE-2874

Overall Length: 110 mm  
 Tip Length: 16 mm  
 Curvilinear design is effective in reaching Descemet's membrane over all inner curvatures of the recipient cornea. The end curvatures of this instrument helps in circular Descemet's membrane detachment as a single disk and prevents or limits uneven segmental tearing of Descemet's membrane during its detachment from the host inner corneal dome.



## John DXEK/DSAEK Stromal Scrubber – AE-2878

Tip Diameter: 8 mm  
 Designed to effectively roughen the inner corneal stroma within the Descemetorhexis circle. The curvilinear design of the instrument allows for easy access of the inner-corneal dome.



# SPATULA/GLIDER

## John DXEK/DSAEK Glider – AE-2879

Disc Diameter: 4 mm

Disc Thickness: 1.5 mm

Unique design and curvature allows for corneal contour-oriented contact between the outer corneal dome and the inner surface of the glider. All regions of the outer corneal surface can be gently and smoothly ironed to diminish and/or eliminate donor disk wrinkles at the donor-host interface.



## Kobayashi DSAEK Interface Fluid Drainage Spatula – AE-2899

Overall Length: 105 mm

Tip Length: 4.4 mm

For successful DSAEK, complete donor attachment at the end of the surgery is necessary. For this purpose, mid-peripheral corneal stab incision is frequently used to drain residual fluid between donor and recipient cornea.

After the anterior chamber is filled with air, this Spatula is inserted into the venting incision (created by either 24 or 25 gauge V-lance). Torque the venting incision to release trapped fluid. Blunt tip avoids accidental stabbing of the donor stroma.



## Sarnicola Big Bubble Spatula – AE-2900

Overall Length: 114 mm

Helps to create an inter corneal tunnel during DALK procedure.



## John ALK Pre-Descemet's Spatula – AE-2902

Overall Length: 113 mm

Dissects corneal stroma adjacent to the recipient DM in DALK procedure.



## John ALK Narrow Stromal Spatula – AE-2904

Overall Length: 139 mm

Facilitates layered separation of the anterior, mid and deeper corneal stroma.





# Spatulas, COMPRESSION DISC, PRK DISPENSERS

## John ALK Compression Disc – AE-2905

Overall Length: 113 mm

Designed to be used on the surface of the cornea to press down the donor disk during total ALK with fibrin glue.



## Carones PRK Dispenser – AE-2910

Overall Length: 122.5 mm

Handle Diameter: 13.7 mm

Pump chamber is filled with alcohol by removing the end cap. Depressing the button on the pump dispenses a pre-measured amount of alcohol into the OZ chamber. Optical zone chamber features cross hairs for centering on the cornea and the sharp edge delineates the epithelium. This provides an excellent starting point for lifting the edge of the epithelial flap.



**AE-2911** 7 mm OZ PRK Cannula for Dispenser

7 mm chamber for myopia

**AE-2912** 9 mm OZ PRK Cannula for Dispenser

9 mm chamber for hyperopia

**AE-2913** 9.5 mm OZ PRK Cannula for Dispenser

9.5 mm chamber for hyperopia

**AE-2914** 10 mm OZ PRK Cannula for Dispenser

10.0 mm chamber for hyperopia

**AE-2915** 10.5 mm OZ PRK Cannula for Dispenser

10.5 mm chamber for hyperopia

## VRTIS™ ILM Spatula – AE-2916

27 Gauge

Overall Length: 145 mm

Tip Length: 2.75 mm

Initiates posterior hyloid and ILM separation from the retina.



## VRTIS™ ILM Spatula

**AE-2917** 23 Gauge

**AE-2921** 25 Gauge

Overall Length: 152 mm

Tip Length: 40 mm

Flat, thin curved Spatula, 2.75 mm tip length designed for blunt dissection and delamination of membrane from the retina. Gentle curve allows manipulation along the surface of the retina.





## Vinciguerra LASEK Spatula – AE-2922

Overall Length: 143 mm

### Small side:

Tip Length: 19 mm

Tip Width: 1.8 mm

### Large side:

Tip Length: 19 mm

Tip Width: 2.3 mm



Specially designed to engage the edge of the epithelial flap for easy lifting. Vaulted curve matches the curve of the cornea. Curved Spatula allows for easy placement of the flap after laser ablation and removes any wrinkle formation as the flap is placed.



## VRTIS™ Horio ILM Spatula – AE-2923

25 Gauge

Overall Length: 148 mm

This 25 Gauge ILM Spatula has a dull end on tip with sharp side edges enabling safe ILM pick up.



## Josephberg-Hilton Trocar Fixation Plate

AE-2925C - 3.5 mm

AE-2926C - 4.0 mm

Overall Length: 84 mm

Features two places for fixation.



## ASICO Electronic Pre-op Toric Marker -AE-2929

Innovative design utilizes both light and sound to guide the doctor to the most accurate 0 and 180 degree pre-op reference markings.

## ASICO Electronic Pre-op Toric Ref Marker - AE - 2929H

handle body only

## ASICO Electronic Toric Head - AE-2939



# ELECTRONIC TORIC MARKER/ CENTERING DEVICE

## ASICO One Step Electronic Toric Marker - AE-2930

12.5 mm outer diameter.

Marking plates mark the axis from 6.5 to 11.5 mm

Markings every 5 degrees.

The electronic head utilizes visual and audio to alert you when are at 0 and 180 degree plane while making your intra-op toric marking



## ASICO Electronic One-Step Toric Marker - AE-2930H

handle body only

## Kraff Intralase® Centering Device – AE-2934

Overall Length: 8.4 mm

Outer Diameter: 15 mm

Inner Diameter: 11.5 mm

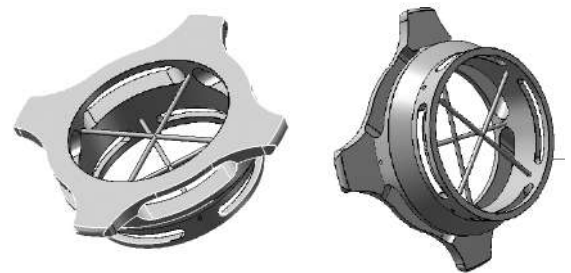
Designed to be used with the Intralase Suction Ring to increase the accuracy in centering the suction ring's placement on the patient's eye. Maintains excellent visualization of the pupillary and limbal landmarks. Easy to place and remove the centering device before and/or after suction.



Intralase® is a registered trademark of AMO.

## Holladay Intralase® Double Cross Hair Centering Device – AE-2935

When both of the 2 cross-hairs are centered on the patient's pupil, the suction device is placed along the axis of the microscope and is centered on the patient's pupil.



Intralase® is a registered trademark of AMO.

## Chihara ILM Pick – AE-2950

Overall Length: 158 mm

Tip Length: 41.5 mm

Tip Diameter: 1.0 mm

Effectively goes through the pars plana to dissect the thin membrane. Gentle curve allows manipulation along the surface of the retina.

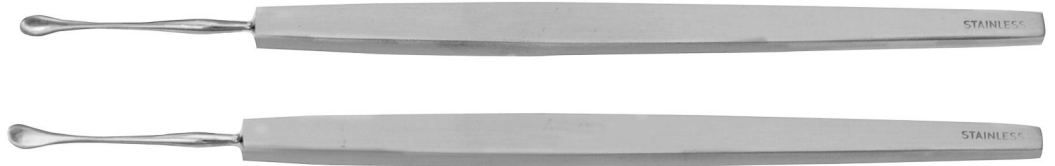


# AE - 3000 SERIES

Description	Page
Knives	79-80
Foreign Body Spuds	79
Spreader	80
Blade Breaker/ Holder	80
Corneal Rust Ring Remover	80-81

# KNIVES

**Gill Corneal Knife**  
**AE-3020** Straight  
**AE-3021** Curved  
Overall length: 122mm



**Paufique Graft Knife - AE-3022**  
Overall length: 109mm  
Angled tip, curved cutting edge



**Tooke Corneal Knife - AE-3025**  
Overall length: 115mm  
Straight blade with curved cutting edge



**Girard-Swan Knife Needle - AE-3030**  
Overall length: 119mm



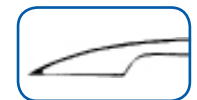
**Golf Club Foreign Body Spud - AE-3039**  
Overall length: 116mm



**Graefe Cystotome Knife - AE-3050**  
Overall length: 130mm



**McPherson-Ziegler Knife - AE-3060**  
Overall length: 112mm



# KNIVES/BLADE BREAKERS

## McPherson Discission Knife - AE-3061

Overall length: 110mm



## Suarez Spreader - AE-3073

Overall length: 115mm

Blade length: 21mm

Semi-sharp edge for epikeratophakia



## Wilder Cystotome - AE-3080

Overall length: 127mm



## Vitrectomy Knife

AE-3100 Short blade, disposable

AE-3102 Handle only for AE-3100

AE-3101 Long blade, disposable

AE-3103 Handle only for AE-3101

(Handles are not interchangeable)



## Castroviejo Blade Breaker & Holder

AE-3200 Small

Overall length: 90mm

AE-3201 Large

Overall length: 123mm



## Algerbrush Corneal Rust Ring Remover

AE-3250 Complete

Includes handle, chuck, and 0.5mm burr

AE-3251 0.5mm Burr only

AE-3252 1.0mm Burr only

AE-3255 Chuck for 0.5mm Burr

Battery powered



# CORNEAL RUST RING REMOVER

## Yoshida Glaucoma Diamond Burr - AE-3254

0.40mm

Ultra fine burr tapers to 0.70mm for removing layers of sclera for non-invasive trabeculotomy. For use with AE-3250.



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## Algerbrush II Pterygium – AE-3260

Complete set with 3.5mm diamond dusted burr



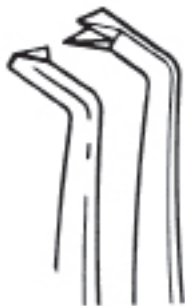
# AE - 4000 SERIES

## Description

Iris Forceps	83
Corneal Forceps	83-86
Tissue Forceps	87
Corneal Fixation Forceps	88-89
IOL Forceps	90-99
Prechoppers	90-91,100-102
IOL Cutters	101
Suturing Forceps	102-103
Tying Forceps	105-108,110
LASIK Forceps	105-106
Capsulorrhexis Forceps	103-104,108,109-111,112
Muscle /Superior Rectus Forceps	112
Chalazion Forceps	114-115
Jewelers Forceps	115-116
Mosquito Forceps	116
Vitreous Forceps	117-121
Iridectomy Forceps	119-120
ICMS Forceps	117-118
ICL Loading forceps	112

## Page

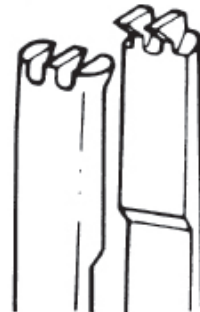
## TYPES OF FORCEPS TIPS



1X2 Bonn Style



1X2 Castroviejo Style  
(Overlapping)



2X3 Style



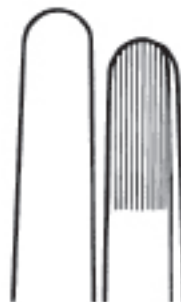
Pierse Tip



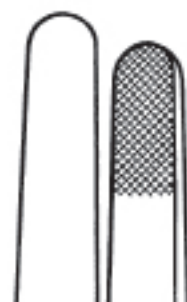
Tying Forceps  
with Platform



Horizontal



Vertical  
(Longitudinal)



Criss - Cross  
Serrated

# FORCEPS

## Gill Curved Iris Forceps

**AE-4010** Criss-cross serrated tips

**AE-4011** 1 x 2 teeth, 0.40 mm

Overall length: 72 mm



## Colibri Forceps - AE-4030N

Overall length: 73 mm

Very delicate, 1 x 2 teeth, 0.12 mm



## Colibri Forceps - AE-4031N

Overall length: 73 mm

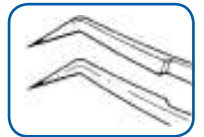
1 x 2 teeth, 0.40 mm, with 6 mm tying platform



## Gill-Colibri Forceps - AE-4034

Overall length: 73 mm

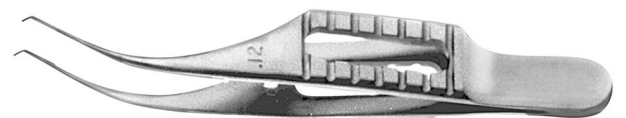
Very fine, pointed 0.50 mm tips



## Harms-Colibri Corneal Forceps - AE-4036N

Overall length: 70 mm

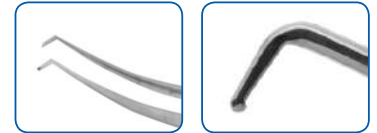
Very delicate, 1 x 2 teeth, 0.12 mm,  
with 6 mm tying platform





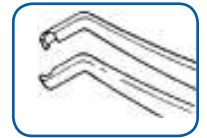
## Shamintha Colibri Chopper – AE-4037

Overall: 100 mm  
 1.5 mm tip on Nagahara horizontal chopper end  
 Tip Length: Very delicate, 1 x 2 teeth, 0.12 mm with 6 mm tying platform on Colibri end  
 Combines the functionality of the Colibri forceps with the cutting edge of the Nagahara chopper. Nagahara chopper side features a 60° cutting edge.



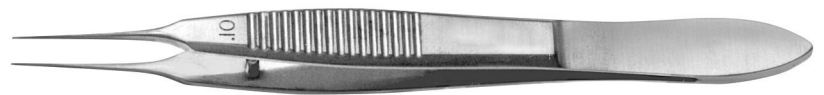
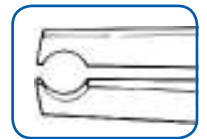
## Pierse-Colibri Corneal Forceps - AE-4038

Overall length: 78 mm  
 0.10 mm atraumatic tips



## Pierse Corneal Forceps - AE-4039

Overall length: 82 mm  
 0.10 mm atraumatic tips, Straight



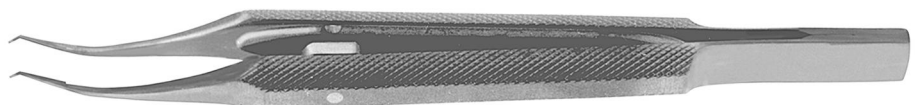
## Polack Double Corneal Forceps - AE-4041

Overall length: 71 mm  
 Very delicate, 1 x 2 teeth, 0.12 mm.  
 For corneal transplant surgery to fixate donor cornea for suturing



## Nordan Colibri Forceps - AE-4045

Overall length: 113 mm  
 1 x 2 teeth, 0.12 mm with 5.0 mm tying platforms and 2.0 mm angled tips.  
 Round knurled handle with flat surface



## Castroviejo-Colibri Forceps AE-4049

Overall length: 106 mm  
Very delicate, 1 x 2 teeth,  
0.12 mm, with 5 mm tying platform



## Castroviejo-Colibri Forceps - AE-4050

Overall length: 106 mm  
Very delicate, 1 x 2 teeth,  
0.12 mm



## Tennant-Maumenee Colibri Forceps - AE-4051N

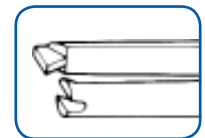
Overall length: 121 mm  
With 5 mm tying platform, 1 x 2 teeth,  
0.12 mm. Suture cutter cuts 10-0 and  
11-0 sutures



## Anis Corneal Forceps

### AE-4052

Overall length: 115 mm  
With 10 mm tying platform, 1 x 2 teeth,  
0.12 mm. Suture cutter cuts 10-0 and 11-0 sutures



## Castroviejo-Colibri Forceps - AE-4053

Overall length: 106 mm  
With pierce tips, 0.10 mm  
atraumatic teeth



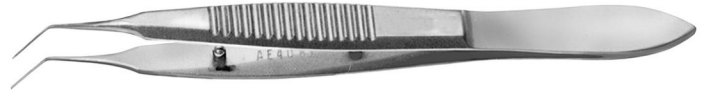
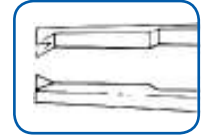
## McPherson Corneal Forceps

**AE-4060N** Straight

**AE-4061** Angled (angle to tip: 6 mm)

Overall length: 86 mm

With 6 mm tying platform, 1 x 2 teeth, 0.40 mm

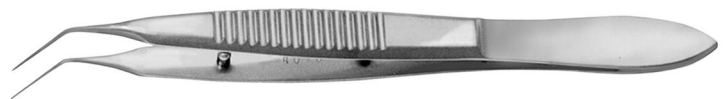
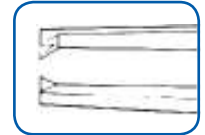


## Kelman-McPherson Forceps - AE-4070

Overall length: 82 mm

Angle to tip: 7.5 mm

With 7.5 mm tying platform, 1 x 2 teeth, 0.12 mm

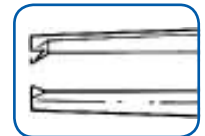


## Hoffer-McPherson Forceps - AE-4071

Overall length: 105 mm

Angle to tip: 11 mm

Very delicate, 1 x 2 teeth, 0.12 mm



## Bonn Forceps

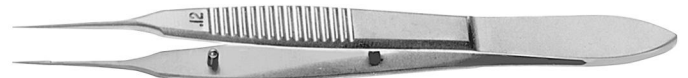
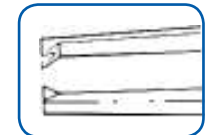
**AE-4080** Short model

Overall length: 76 mm

**AE-4081** Long model

with 5 mm tying platform

Overall length: 89 mm



## ASICO Tooth Forceps 0.12 mm with Platform – AE-4090

Overall Length: 88.00 mm

Length of Platform: 6.00 mm

These forceps are designed with a handle for better grip.

The tips have a precise finish.



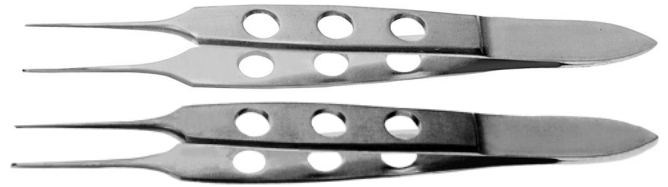
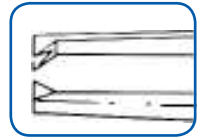
# FORCEPS

## Bishop-Harmon Tissue Forceps

**AE-4100** Extra delicate 0.40 mm

**AE-4101** Delicate 0.80 mm

Overall length: 86 mm  
1 x 2 teeth



## Bishop-Harmon Dressing Forceps - AE-4102

Overall length: 85 mm

Criss-cross serrated tips

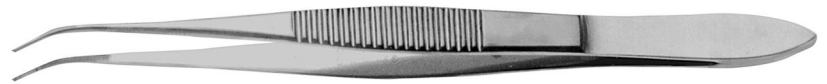
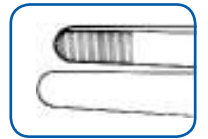


## Dressing Forceps

**AE-4110** Straight

**AE-4111** Curved

Overall length: 100 mm  
Serrated, delicate tips

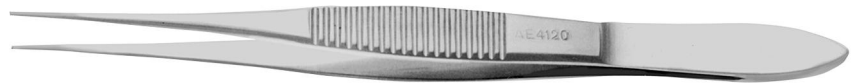


## Tissue Forceps

**AE-4120** Straight

**AE-4121** Curved

Overall length: 100 mm  
1 x 2 teeth, 0.25 mm, delicate tips



## Neuhann USC Glaucoma Forceps - AE-4130

Straight

Overall Length: 105 mm

Feature delicate serrated tips for micro-manipulation of the tissue to Unroof Schlemm's Canal for deep sclerectomy and viscocanalostomy



## Neuhann-Mermoud USC Forceps - AE-4131

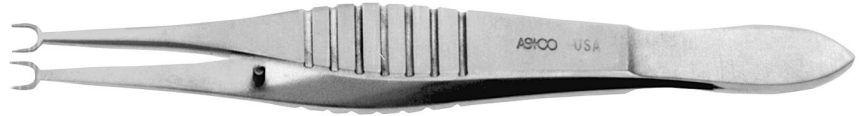
Overall: 105 mm

Features delicate tips for micro-manipulation of the tissue to Unroof Schlemm's Canal for deep sclerectomy and viscocanalostomy.



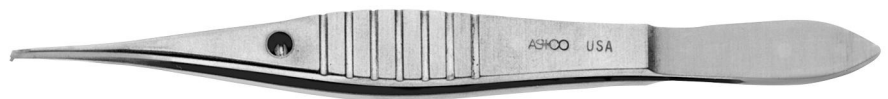
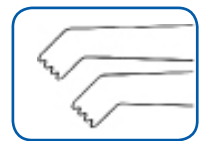
## Bores Corneal Fixation Forceps - AE-4150 Straight

Overall length: 105 mm  
U-shaped 3.0 mm spread, 1 x 2  
teeth at each tip, 0.12 mm



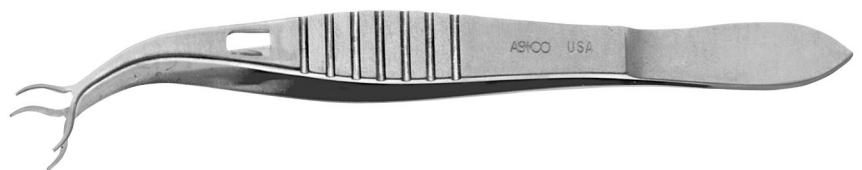
## Bores Incision Spreading Forceps - AE-4151

Overall length: 105 mm  
0.5 mm square jaws, with micro-serrations.  
Preset to limit opening of jaws



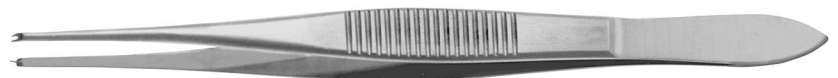
## Nordan Corneal Fixation Forceps - AE-4155 Curved

Overall length: 105 mm  
U-shaped, 8 mm spread,  
1 x 2 teeth at each tip, 0.12 mm, with lock



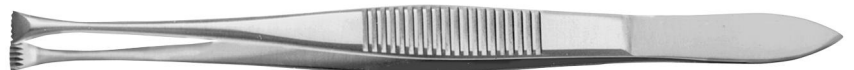
## Elschnig Fixation Forceps - AE-4160

Overall length: 109 mm  
1 x 2 teeth, 0.90 mm, angled



## Graefe Fixation Forceps - AE-4164

Overall length: 108 mm  
5.0 mm wide jaws, multiple teeth



## Green Fixation Forceps - AE-4168

5.0 mm wide jaws  
Overall length: 100 mm  
Multiple teeth

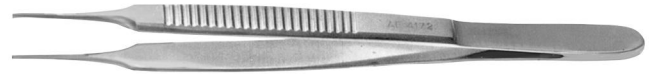
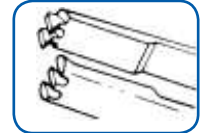


## Lester Fixation Forceps

**AE-4172** 1 x 2 teeth, 0.40 mm

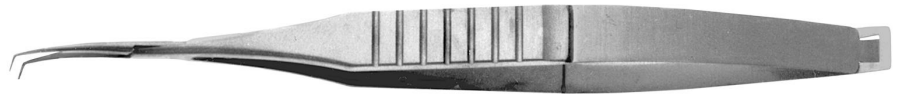
**AE-4173** 2 x 3 teeth, 0.40 mm

Overall length: 94 mm



## Kellan Fixation Forceps - AE-4175

Overall length: 121 mm  
Length of tip: 2 mm  
With serrated and pierse tips for fixation. Ideal for clear corneal surgery



## Koch Sideport Forceps – AE-4176

Overall: 98 mm  
Tip Length: 14 mm  
Paracentesis Fixation device for topical anesthesia procedures.  
Ideal size to hold the edge of the pracentesis.  
Modified pierced tips for atraumatic handling.



## Lieberman Eye Handle Fixation Forceps - AE-4177

Overall length: 103 mm  
Angle to tip: 8 mm  
Tapered, serrated tips are ideal for fixating globe through paracentesis incision. Ideal for clear cornea surgery



# PRECHOPPERS

## Akahoshi Universal Forceps – AE-4180

Overall Length: 108 mm

Tip Length: 23 mm

Angle to Tip: 2 mm

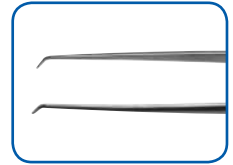
Tip Angle: 50°

For atraumatic holding and controlling the eye position.

Features a blunt fine tip whose inner surface is finished

rough with a diamond dust coating to secure firm

grasping.



## Inamura Soft Nucleus Prechopper – AE-4189

Overall Length: 120 mm

Blade Length: 5 mm

For Nucleus Grades 1 and 2

Reduces phaco time up to 50%. Swan Prechopper easily splits soft

nuclei completely and rotates nuclei in the capsular bag.



## Akahoshi Combo II Prechopper – AE-4190

Overall Length: 120 mm

Blade Length: 5 mm

For Nucleus Grades 1 and 2

Designed for prechopping the nucleus for the Micro Coaxial Technique. Can be used within a 2 mm incision size.

For grades of nuclei 1-2, nuclei can be easily divided using the Karate Prechop technique. It is highly recommended

to use a sustainer and prechop carefully when working on harder nuclei with weak ciliary zonules. The sustainer can

support the nucleus to reduce stress on the ciliary zonules. With the phaco prechop technique, ultrasound time is

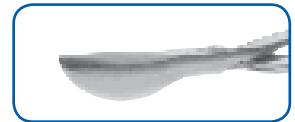
reduced to less than 50% of that required with the conventional grooving method.

The movement of the phaco tip is minimized due

to prior division of the nucleus. Mechanical and

thermal damage to the wound is consequently

reduced.



## Akahoshi Super Combo III Prechopper - AE-4191

Overall Length: 120 mm

Blade Length: 5 mm

For Nucleus Grades 1 to 3

This prechopper, a variation of our Combo Prechopper (AE-4284), is suitable for the vertical Karate Prechop technique

within a 2 mm incision. Prechopping can be completed without nuclear support for nuclei grade 1 to 3 with intact

ciliary zonules and complete CC. The design of the sharp tip allows for easy insertion into the nucleus and rotation of

the nucleus after bisection. It can prechop grade 4 nucleus by the Counter Prechop technique, if the nucleus is properly

supported by the Nucleus Sustainer (AE-2530).

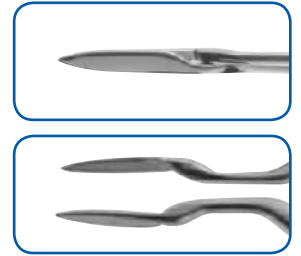




## Akahoshi Universal II Prechopper - AE-4192

Overall Length: 120 mm  
Blade Length: 4.5 mm  
For Nucleus Grades 2 to 4

This prechopper, a variation of our Universal Prechopper (AE-4282), is suitable for the vertical Counter Prechop technique within a 2 mm incision. It is designed to be used with the Nucleus Manipulator (AE-2530) in the side port incision to support the nucleus on the same axis during the Counter Prechop technique.



## Hill Prechopper – AE-4193

Overall Length: 120 mm  
Blade Length: 5 mm  
For Nucleus Grades 2 to 4

For a nucleus of grade 2, this design will allow for easier penetration, with initiation and propagation of the first crack using Dr. Akahoshi's standard "karate" pre-chop technique. The sharp tip and thin edges, allow the instrument to move more easily through nuclear material. For nuclei grades 3-4 the sharp tip and razor sharp internal cutting edge, allows the surgeon to both penetrate and slice through the nucleus using a downward movement of the tip while simultaneously elevating the handle. This allows the curved, sharp inside edge of the instrument to cut through the nucleus using both vertical and horizontal forces, much like the cutting action of a saber blade. Enables the division of dense nucleus without counter force.



## Aguilar Prechopper – AE-4194

Overall Length: 120 mm  
Blade Length: 4.5 mm  
Smaller blades allow for easier entry through a 2.0 mm incision. Special beveled blades used for prechopping the upper surface or lower surface.



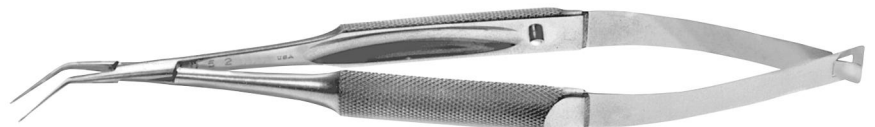
## Tolia Lens Forceps - AE-4203

Overall length: 116 mm  
Angle to tip: 9 mm  
Features a notch at the tip to facilitate positioning of the optic and implantation of the haptic



## Anis Lens Holding Forceps - AE-4204

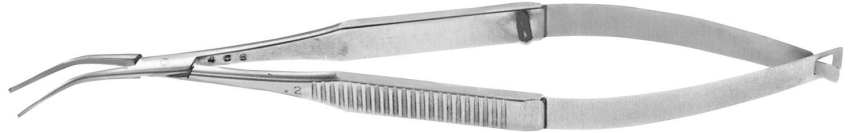
Overall length: 115 mm  
Angle to tip: 9 mm  
Tip width: 0.50 mm  
Extra delicate, smooth jaws, 45° angle





## ASICO Lens Holding Forceps - AE-4209

Overall length: 120 mm  
 Angle to tip: 18 mm  
 0.20 mm diameter peg on the upper jaw and a fine notch on the lower jaw to hold the superior haptic



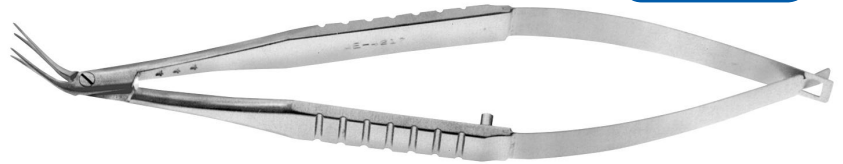
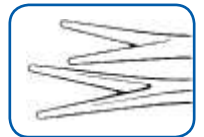
## laydes Lens Holding Forceps - AE-4211

Overall length: 110 mm  
 Angle to tip: 10 mm  
 Very delicate, narrow smooth jaws, 45° angle



## Fish IOL Forceps - AE-4217

Overall length: 111 mm  
 Angle to tip: 10 mm  
 Tip width: 2.60 mm



## Villarrubia DSAEK Forceps – AE-4219

Length: 140 mm 23 Gauge  
 Length of Bonn Style Teeth: 0.12 mm  
 Enters through an incision opposite the main incision to gently guide the donor disk into the anterior chamber. Bonn style teeth of 1x2 of 0.12 mm enables easy grasp of endothelium button.



## Hirschman Lens Holding Forceps - AE-4220

Overall length: 110 mm  
 With fine notched tips



## Kobayashi-Tan DSAEK Forceps – AE-4221

25 Gauge

Overall: 140 mm

Enters through an incision opposite the main incision to gently guide the donor disk into the anterior chamber.

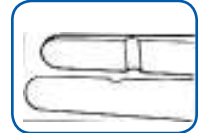


## Kellan Endocapsular IOL Insertion Forceps - AE-4222

Overall length: 100 mm

Length from notch to tip: 1.00 mm

Diameter of the tip is 0.15 mm for implantation of the superior haptic of the IOL



## Vukich ICL® Forceps – AE-4224

Overall Length: 135 mm

Tip Length: 18 mm

Tip Width: 0.4 mm

Long delicate jaws allow accurate positioning of the IOL within the cartridge of the injector and help ensure reproducible placement of the lens each and every time. Round tip and flat polished surface eliminates the chances for accidentally scratching the lens. Forceps can be used for intraocular manipulations of the lens at the incision site.

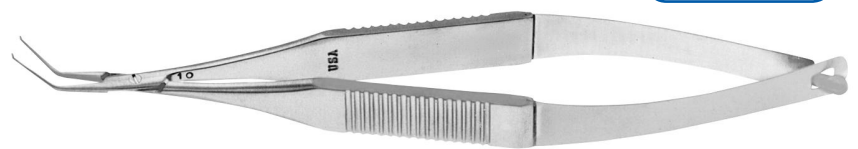


## Kelman Lens Holding Forceps - AE-4225

Overall length: 115 mm

Angle to tip: 8 mm

Right angled tips



## Tan DSAEK Forceps – AE-4226

23 Gauge

Overall Length: 137 mm

Shaft Length: 26 mm

Enters through an incision opposite the main incision to gently guide the donor disk into the anterior chamber. The forceps is designed in such a way that allows grasping the donor button on stromal side only which minimizes endothelial loss.



## John DXEK Inserting Forceps – AE-4227

Overall Length: 135 mm

Tip Length: 18 mm

Tip Angle: 30°

Tip Width: 0.4 mm

Unique forceps design allows for distal tip contact first preventing tissue compression and protects donor corneal endothelium.



## Kraff Lens Holding Forceps

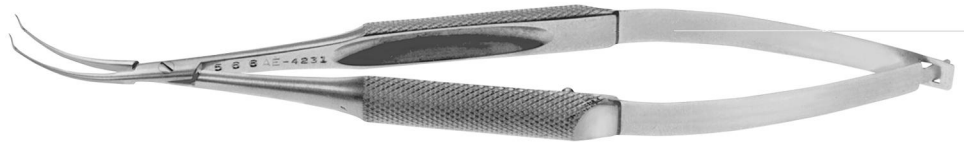
### AE-4230

AE-4231 Round handle

Overall length: 120 mm

Length of tip: 3 mm

Delicate, curved jaws grasp optic edge of the lens



## Shepard Lens Forceps - AE-4234

Overall length: 120 mm

Width of jaws: 1.50 mm

Serrated jaws, without lock



## Shepard Intraocular Lens Forceps - AE-4235

Overall length: 90 mm

3 mm lower jaw and 1.5 mm upper

jaw, serrated jaws, with lock



## Lieberman Lens Forceps

### AE-4236

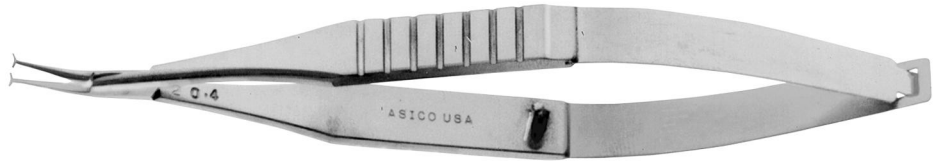
**AE-4236L** With lock

Overall length: 110 mm

Angle to tip: 10 mm

Width of T-bar: 2 mm

T-bar on upper and lower jaws for excellent stability in holding biconvex IOL. 15° angled jaws. Ideal for phakic lens implantation



## Sinsky Lens Holding Forceps - AE-4237L

With lock

Overall length: 110 mm

Angle to tips: 9 mm

Width of T-bar: 2 mm

With delicate T-shaped lower jaw, ideal for biconvex, ridged or plano lenses. Ideal for phakic lens Implantation, 45° for superior approach

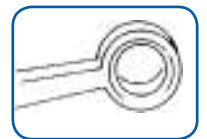


## Lieberman Micro-Ring Lens Forceps - AE-4240

Overall length: 110 mm

Diameter of ring: 1.20 mm

Enables easy implantation of IOL haptic and optic. 15° angulation of jaws for comfortable hand position

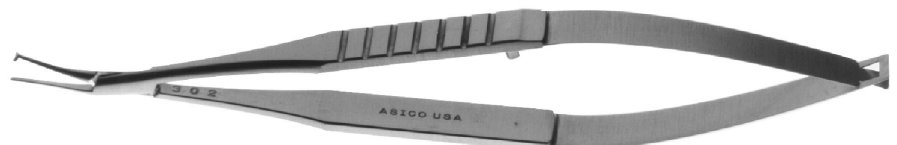


## Bohr MemoryLens® Forceps - AE-4241

Overall length: 108 mm

Width of T-bar: 2 mm

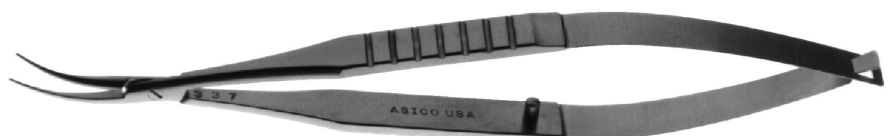
T-bar conforms to folded biconvexity of prefolded IOL



## Piovella MemoryLens® Forceps - AE-4242

Overall length: 108 mm

Features recessed space to conform to folded biconvexity of prefolded IOL. Two horizontal markings on upper jaw guide the limitation of introduction of forceps into prefolded IOL



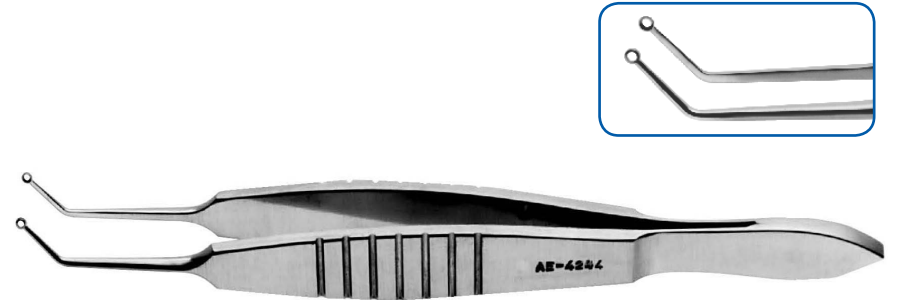
## Me mmen MemoryLens® Forceps - AE-4243

Overall length: 108 mm  
 Width of T-bar: 2 mm  
 Curved microplates conform to the curvature of the pre-rolled IOL allowing for a secure torque-free implantation



## Packo Conjunctiva Forceps - AE-4244

Overall length: 105 mm  
 Angle to tip: 7 mm  
 Tip diameter, 1.20 mm  
 For non-traumatic manipulation of the conjunctiva



## Faulkner Lens Holding Forceps - AE-4245N

Jaw Length: 8 mm  
 Ideal for picking up foldable IOLs from their lens cases.  
 Tips are rounded & polished for atraumatic handling of the IOLs. Can be used for silicone and acrylic IOLs.



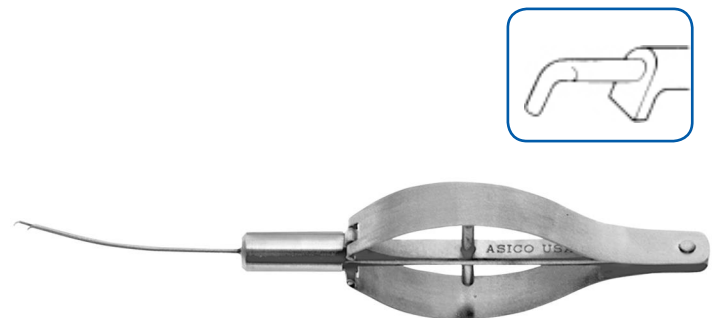
## Faulkner II Lens Inserting Forceps - AE-4247

Overall length: 124 mm  
 Angle to tip: 11.5 mm  
 For foldable IOL



## ASICO Haptic Holding Forceps - AE-4251

Overall length: 83 mm  
 0.25 mm diameter with curved shank and smooth contact surface for placing superior haptic in the bag

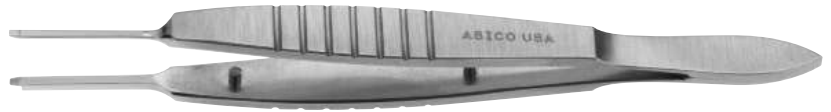
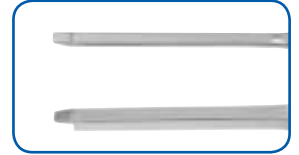


## Akahoshi Acrylic IOL Loading Forceps – AE-4253N

Overall Length: 104 mm

Tip Width: 1 mm

Narrow blades enable easy pick up of the AcrySof® single piece and three piece IOLs from the container. Tip edges are rounded and mirror polished so as to not damage the IOL. Smooth tips gently place optic in the cartridge curling towards the cartridge floor so the lens can be easily pushed by the plunger. Allows trailing haptic to be manipulated easier and decreases the incidence of inappropriate lens placement in the cartridge.



AcrySof® is a registered trademark of Alcon Labs

## Cu mming Silicone IOL Folder - AE-4254

Overall length: 105 mm

Ideal for 3-piece and plate haptic IOLs. Long paddles allow for secure pick up of the IOL and for even and effective folding



## Lovisolo ICL® Cartridge Loading Forceps – AE-4255N

Overall Length: 102 mm

Angle to tip: 12 mm

Round polished jaws ideal for removing the lens from the container and placing it into the cartridge.



ICL® is a registered brand of Staar Surgical.

## Lovisolo Implantable Contact Lens Removal Forceps - AE-4256

Overall length: 102 mm

Angle to tip: 12 mm

Round, sandblasted jaws firmly grasp lens inside the eye for removal in case of upside-down placement



## Nordan Unifold IOL Forceps

**AE-4259** For 5.5 mm IOL

**AE-4261** For 6.0 mm IOL

Overall length: 123 mm

Ideal for silicone and acrylic foldable IOLs. Consistently folds the IOL evenly and equally while preventing the lens from reverse folding. IOL can be folded 12 - 6 or 3 -9 (oblique). With lock



## Kellan Foldable IOL Forceps - AE-4260

Overall length: 121 mm  
 Length of loop: 5.7 mm  
 Width of loop: 1.3 mm  
 Designed to contour the silicone IOL rather than fold the IOL



## ASICO Direct Action Folding Forceps - AE-4262AN

Overall length: 104 mm  
 Evenly folds acrylic and silicone lenses of 5.5 mm or 6.0 mm diameter. Paddles effectively pick up lens for even and equal folding



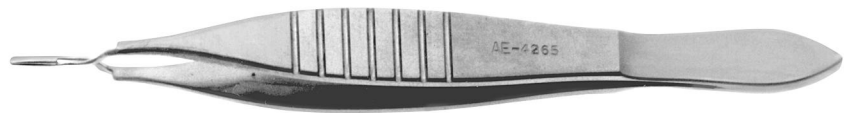
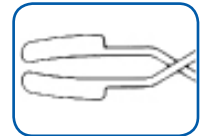
## Nordan Foldable IOL Forceps - AE-4264

Overall length: 102 mm  
 Angle to tip: 17 mm  
 Delicate cross-action jaw design reduces gaping of wound during IOL implantation



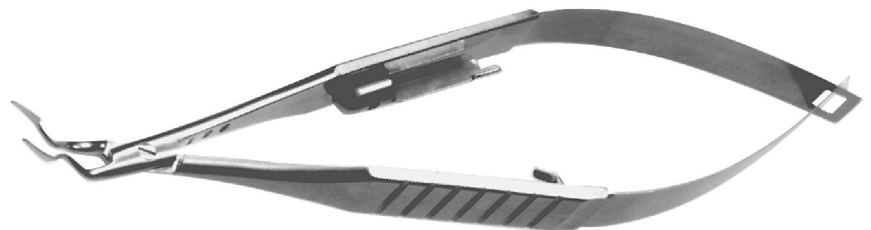
## ASICO IV Foldable IOL Forceps AE-4265

Straight  
 Overall length: 108 mm  
 Short, cross action, parallel blades



## ASICO Direct Action Implantation Forceps - AE-4267

With Lock  
 Overall length: 120 mm  
 Angle to tip: 15 mm  
 Ideal for silicone and acrylic IOLs.  
 Forceps open to 6.0 mm inside the eye, for non-explosive release of lens, without compromising a 2.8 mm incision



## Akahoshi Acrylic Implant Forceps - AE-4269

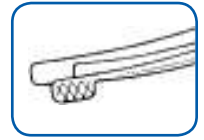
Flat Handle  
 Overall length: 120 mm  
 Angle to tip: 15 mm  
 Thin, smoothly polished tips will not damage acrylic lens, For easy implantation without stretching a small incision





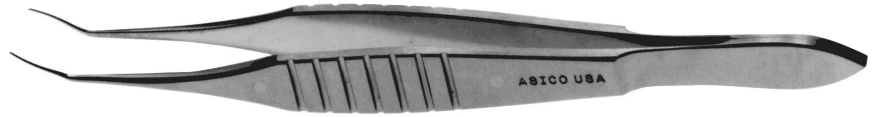
## Kraff Nucleus Splitter - AE-4270N

Overall length: 107 mm  
 Tip length: 2.0 mm  
 Tip height: 1.0 mm  
 To effectively split the nucleus during the phaco procedure. Jaws open to a maximum of 3.0 mm



## Buratto Acrylic IOL Implantation Forceps - AE-4271

Overall length: 105 mm  
 Angle to tip: 8 mm  
 Highly polished contoured jaws effectively hold the folded acrylic IOL.  
 Thin and smooth jaws allow implantation through a small incision



## Buratto II Acrylic IOL Implantation Forceps

**AE-4272N** Without lock

**AE-4272L** With lock

Overall length: 120 mm  
 Angle to tip: 8 mm  
 Highly polished jaws are extremely thin and smooth to implant lens through a small incision



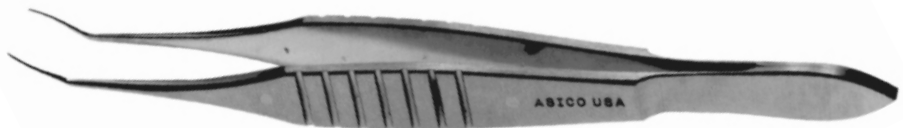
## Buratto III Extra Fine Acrylic Implant Forceps - AE-4273N

Overall length: 105.8 mm, Tip Angle: 35 degrees,  
 Angle to tip: 8.2 mm  
 Designed to implant Acrylic lenses through the smallest incision possible, thinnest delicate jaws for implantation through clear cornea incision. Contoured jaws effectively hold the folded lens. Direct action forceps smoothly and controllably release lens inside anterior chamber. Ideal for 5.5 mm and 6.0 mm diameter lenses.



## ASICO Acrylic IOL Implantation Forceps -AE-4275

Overall length: 104 mm  
 Angle to tip: 15 mm  
 Ideal for scleral tunnel incision.  
 Features highly polished jaws, internal stop restricts stretching a small incision



## Zaldivar Micro Acrylic Implant Forceps – AE-4276N

Overall Length: 125 mm  
 Tip Length: 8.5 mm  
 Tip Angle: 150°  
 Specially designed flat tip on the leading edge of the forceps facilitates implantation through a small clear corneal incision. Designed as an alternative to the screw injector to save time, steps and the lens. Forceps enters a 3.0 mm incision without stretching the incision size. Smoothly polished jaws easily open in the eye and do not mark the lens. Forceps can be used to implant the superior haptic.





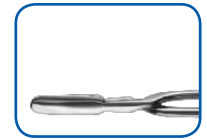
## Akahoshi Universal Prechopper - AE-4282

Overall length: 120 mm  
For Nuclei of grades 2-4



## Akahoshi Paddle Prechopper - AE-4283

Overall length: 120 mm  
For Nuclei of grades 1-2



## Akahoshi Combo Prechopper - AE-4284

Overall Length: 120 mm  
Blade Length: 5 mm  
For Nucleus Grades 1 and 2

Nuclei grades 1 to 2 can be easily divided using the Karate Prechop Technique. It is highly recommended to use a sustainer and prechop carefully while working on harder nuclei with weak ciliary zonules. The sustainer can support the nucleus to reduce stress on the ciliary zonules. With the phaco prechop technique, ultrasound time is reduced to less than 50% of that required with the conventional grooving method. Because the nucleus is divided beforehand, the movement of the phaco tips minimized. Mechanical and thermal damage to the wound is consequently reduced. Designed for small incision surgery, each prechopper opens to a maximum of 3 mm at the site of incision.



## Akahoshi Micro Incision Prechopper - AE-4285

Overall Length: 107mm  
For Nuclei of all grades. Ideal for Incision size of 1.5mm, Nuclei of any hardness can be easily divided using the special forceps designed for the Karate Prechop technique.



## Akahoshi Hybrid Combo Prechopper - AE-4286

Overall Length: 120 mm  
Blade Length: 5 mm  
For Nucleus Grades 1 to 3

Groove enables easy rotation of the nuclei during prechopping. Nuclei of these grades can be easily divided using the Karate Prechop technique. It is highly recommended to use a sustainer and prechop carefully when working on harder nuclei with weak ciliary zonules. The sustainer can support the nucleus to reduce stress on the ciliary zonules. With the phaco prechop technique, ultrasound time is reduced to less than 50% of that required with the conventional grooving method. The movement of the phaco tip is minimized due to prior division of the nucleus. Mechanical and thermal damage to the wound is consequently reduced. Prechopper opens to a maximum of 3 mm at the site of incision.



## Akahoshi Super Micro Prechopper – AE-4287

20 Gauge  
 Overall Length: 144 mm  
 Tip Length: 5.5 mm  
 For Nucleus Grades 1 to 3

Prechopper is able to fit through a 1.2 mm incision. Safely prechops grades 1-3 Nuclei. Designed to be used through a sideport incision, Micro Phaco Incision and Laser Phaco Incision. Tip was designed to open wide for more effective chopping of the nucleus without compromising the small incision of 1.2 to 1.5 mm. Opening and closing is within the anterior chamber. Reduces phaco time by 50%.



## Akahoshi Universal Nucleus Splitter/Separator – AE-4289

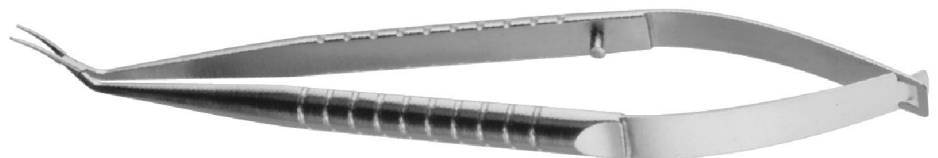
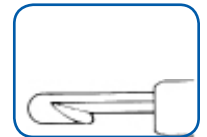
Overall Length: 120 mm  
 Tip Length: 5.5 mm

Helps to complete the splitting of incompletely prechopped nuclei. Can also be used to divide the nucleus after grooving for divide and conquer technique; can attain nuclear division even if the grooving is not deep enough. Blunt and rounded ring can be used safely to attain complete division. Blunt ring tips are safe to touch the posterior capsule.



## ASICO IOL Haptic Amputator - AE-4290

Overall length: 150 mm  
 Tip diameter: 1.0 mm  
 With protective cap, 19gauge, to amputate the loop of PMMA, polypropylene, polyamide, or other haptic material



## Phillips IOL Cutter - AE-4292

Overall length: 150 mm  
 Overall length: 108.2 mm, Tip length: 11.48 mm, Tip angle: 25 degrees, Angle to tip length: 28.5 mm, Tip width: 1.38 mm  
 Designed to allow intraocular cutting of foldable silicone, hydrogel and acrylic IOL's. The Angulated posterior serrations securely grasp the IOL as the low profile cutter is advanced through the lens. Features a locking mechanism that holds the lens in place while cutting.



## Inamura Eagle Prechopper – AE-4293

Overall Length: 120 mm  
Tip Length: 5 mm  
For Nucleus Grades 1 to 4

Narrow tip is easy to insert into the denser nucleus. It enables division from soft to dense nuclei without the counter force. The shape of the tip makes rotation of the nucleus easier in the capsule bag.



## Escap Prechopper – AE-4295

Overall Length: 120 mm  
Blade Length: 3.25 mm

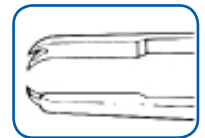
For soft to medium consistency cataracts. Can be used in combination with the ultrachopper wherein the prechopper helps make initial grooves in the cataract. Angled down tip helps for easy insertion of the prechopper blades. The broad surface divides the ultrachopped nucleus easily.



## Castroviejo Suturing Forceps

**AE-4300** 0.12 mm  
**AE-4302N** 0.30 mm  
**AE-4304** 0.50 mm  
**AE-4306** 0.90 mm  
**AE-4308** 1.50 mm

Overall length: 108 mm  
1x 2 teeth, with 6 mm tying platform



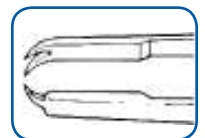
## Castro Suturing Forceps, 0.3 mm – AE-4302N

Overall Length: 108 mm  
Tying Platform: 6 mm  
0.30 mm; 1 x 2 teeth



## Castroviejo Suturing Forceps

**AE-4313** 0.30 mm  
**AE-4315** 0.50 mm  
Overall length: 108 mm  
Angle to tip: 4 mm  
1x 2 teeth, with 5.5 mm tying platform, angled

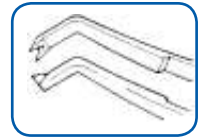


## Girard Corneal Scleral Forceps

AE-4320 Right

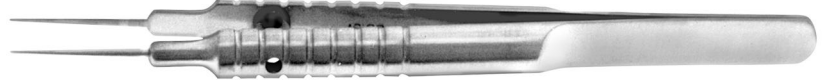
AE-4321 Left

Overall length: 107 mm  
1 x 2 teeth, 0.12 mm, 7.0 mm  
tying platform



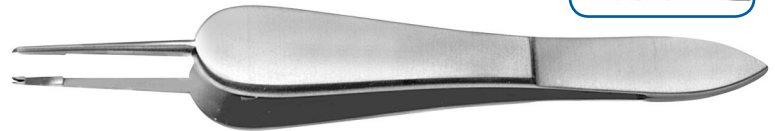
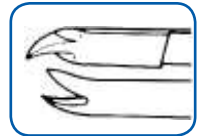
## Kraff Corneal Forceps - AE-4329

Overall length: 113 mm  
1 x 2 teeth, 0.12 mm forceps with tying platform



## Manhattan Eye & Ear Suturing Forceps - AE-4330

Overall length: 87 mm  
1 x 2 teeth, 0.40 mm with tying platform



## Uy Femtosecond Capsulotomy Forceps - AE-4333

Overall length: 149 mm,  
tip width: 1.55 mm and tip length: 4.5 mm.  
Features specially designed jaws with  
atraumatic ridges to grasp the ICL® without damage,  
rounded edges and a hole on the upper jaw for easy  
identification of the lens allowing improved visualization.



## Akahoshi Nucleus Cross-Action Forceps - AE-4340

Angle to tip: 11mm  
Suitable for removing nuclear fragments through a small incision



## Tjia-Akahoshi Capsulorrhexis Forceps

Straight Jaws - AE-4344

Vaulted Jaws - AE-4344V

Straight Jaws with Laser Lines- AE-4344L

Overall Length: 102 mm  
Blade Length: 11 mm  
Flat Handle. Long, thin blades that manipulate easily through a 2.0 mm or smaller incision. Sharp, triangular tips can be used as a cystotome. Safety platform prevents iris pick up.

For vault version, jaws contour to the shape of the anterior capsule. For laser line version, laser lines are placed 1.0 mm and acts as a guide for capsulorrhexis



## Akahoshi-Tija Capsulorrhesis Forceps w/Round Handle & Laser Lines

Straight Jaws - [AE-4344R](#)

Vaulted Jaws - [AE-4344VR](#)

Overall Length: 106 mm

Blade Length: 11 mm

Round Handle. Has laser lines to measure capsulorrhesis size. Thinnest jaws on the market. Triangular tip for easy grasping in the presence of viscoelastic. Fits through a 1.8 mm incision. Laser lines are placed 1.0 mm apart and act as a guide for capsulorrhesis.



## Akahoshi Capsulorrhesis Cross-Action Forceps – [AE-4345](#)

Overall Length: 113 mm

Tip Length: 12 mm

Tip Angled at 135°

Specially designed for an incision of 2.2 mm or smaller. Unique cross action mechanism reduces loss of viscoelastic material through the incision. Consecutively deep anterior chamber can be maintained and rhexis edge can be better controlled. The pointed tips make the initial puncture of the anterior capsule easy and grasp the anterior capsule firmly.



## Inamura Super III Capsulorrhesis Forceps – [AE-4346](#)

Overall Length: 103.5 mm

Patented reverse cross-action mechanism minimizes incision stretching and reduces visco loss. Can be used through an incision size of 2.2 mm to 2.5 mm.



## Akahoshi Micro Incision Capsulorrhesis Forceps – [AE-4347](#)

Flat Handle

Overall length: 120 mm, Angle to tip: 15 mm

Long, thin blades ccc forceps that manipulate easily through a 1.6 mm incision.



# FORCEPS

## Harms Tying Forceps

**AE-4350** Straight

**AE-4351** Curved

Overall length: 102 mm

Smooth jaws with 6.0 mm tying platform, 0.50 mm tip width.

Ideal for 7-0 to 9-0 sutures



## Guell LASIK Forceps - AE-4356

Overall length: 100 mm

Serrations allow for an effective non-traumatic grasp of the flap



## Alio LASIK Forceps - AE-4357

Overall length: 87 mm

Curved forceps with crisscross serrations to effectively lift the flap. Epiteliorrhexis and lifting flap is extremely easy



## Perone LASIK Forceps - AE-4358

Overall length: 104 mm

Ring diameter: 1.20 mm

Circular rings with internal sandblasted surface ensures a firmer hold of the flap

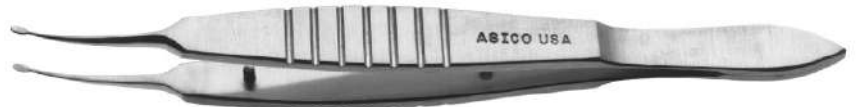


## Manche LASIK Forceps - AE-4359

Overall length: 104 mm

Oval width: 1.0 mm

Solid oval tip with sandblasted inner surface is used to manipulate the flap with minimal risk of tearing or trauma



## Jaffe Tying Forceps

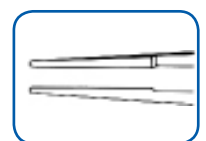
**AE-4360** Straight

**AE-4361** Curved

Overall length: 102 mm

Smooth jaws with 6.0 mm tying platform, 0.30 mm tip width.

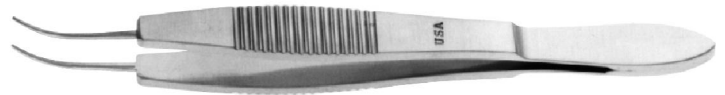
Ideal for 8-0 to 11-0 sutures





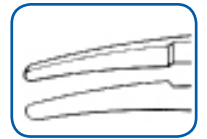
## Buratto LASIK Forceps - AE-4362

Overall length: 102 mm  
 Feature fine sandblasting on tips for effective lifting of flap



## Nordan Tying Forceps - AE-4365

Curved with 5.0 mm tying platform  
 Overall length: 104 mm  
 Round knurled handle with flat surface.  
 Ideal for 8-0 to 11-0 sutures



## Vidaurri LASIK Forceps - AE-4367

Overall Length: 106 mm  
 Angle to Tip: 13 mm  
 Tip Width: .38 mm  
 Curved, bullet shaped tips avoid epithelial damage and will not drag epithelium into the interface, reducing chance of ingrowth. Minimizes wrinkles and Striae



## Kobayashi Chalasis Forceps - AE-4368

Overall Length: 105 mm  
 Newly optimized for performing conjunctivochalasis surgery. Tips conform to the curvature of the sclera, and allow the surgeon to grasp the loose conjunctiva gently with ease. Superficial cauterization can be quickly completed without complication.

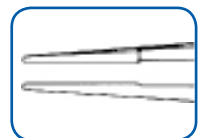


## Kobayashi Chalasis Forceps, Small - AE-4368S

Overall Length: 103 mm - Angle of Tip: 45° - Length of Platform: 5 mm - Tip Size: 0.3 mm

## McPherson Tying Forceps

**AE-4370** Straight  
 Overall length: 82 mm  
**AE-4373** Straight long handle  
 Smooth jaws, 5 mm long platform. Ideal for 8-0 to 11-0 sutures



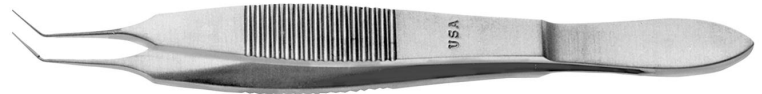
## McPherson Tying Forceps

### AE-4371

Overall length: 82 mm

### AE-4374 Long handle

Angled, smooth jaws, 5 mm long platform,  
Ideal for 8-0 to 11-0 sutures



## Kelman-McPherson Forceps

### AE-4372

Overall length: 82 mm

### AE-4375 Long handle

Overall length: 102 mm

Angled, smooth jaws, 7.5 mm long platform,  
Ideal for implanting IOL

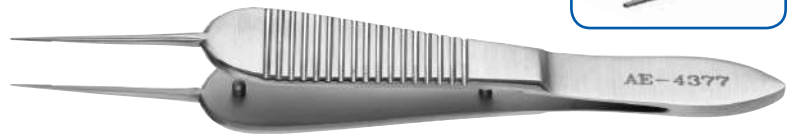


## ASICO Tying Forceps with Fine Platform – AE-4377

Overall Length: 88.00 mm

Length of Platform: 5.00 mm

These forceps are designed with handles that allow  
a better grip and have a precise finish on the tips.



## Sinsky Tying Forceps

### AE-4378 Straight

### AE-4379 Curved

Overall length: 110 mm

Very delicate smooth jaws, Ideal for 8-0  
to 11-0 sutures





## Tennant Tying Forceps

**AE-4380** Straight

**AE-4381** Curved

Overall length: 102 mm

Tip width: 0.25 mm

Extra delicate smooth jaws, 6 mm long platform.

Ideal for 9-0 to 11-0 sutures



## Kraff LRH\* Tying Forceps - AE-4382

Straight

Overall length: 140 mm

With platform



## Ikeda Super Micro Capsulorrhesis Forceps – AE-4385

23 Gauge

Overall Length: 139 mm

Sharp tip can be used as a cystotome. 90° curved forceps allow for easy maneuverability through the paracentesis incision. Specially designed platform in the jaws allow for a secure hold of the anterior capsule in the presence of viscoelastic. Round handle provides better control.



## Ikeda Micro Capsulorrhesis Forceps, w/ Short Shaft & Handle – AE-4385S

Overall Length: 116 mm - Tip Length: 16 mm - Jaw Length: 0.5 mm

## Anis Tying Forceps

**AE-4386** Straight

**AE-4387** Curved

Overall length: 110 mm

Extra delicate smooth jaws. Ideal for 9-0 to 11-0 sutures.



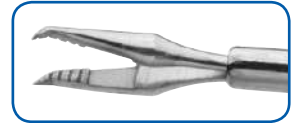
## Kawai Capsulorrhesis Forceps

**AE-4388** 23 Gauge

**AE-4404** 25 Gauge, short shaft

Overall Length: 139 mm

Tips are at a 45 degree angle. Sharp tip can be used as a cystotome. Serrations extend to end of the jaws for better grasp of the anterior capsule in the presence of viscoelastic. Recessed space in jaws prevents inadvertent iris pickup. Jaws open wide for better visibility. Round handle provides better control.



## Fine-Ikeda Micro Capsulorrhesis Forceps, Short – AE-4389S

Overall: 128 mm

Tip Blade Length: 16.28 mm

Tip Length: 7.5 mm

Tapered tips allow for easy maneuverability through the paracentesis incision. 13 mm shaft from tip to handle gives adequate access within the anterior chamber. Features 90° tip that can be used as a cystotome. Proximity of the tip allows for easy working in the sub-incisional area without snagging the Descemet's membrane. Compressible handle allows for maximum tactile feedback.



## Inamura Capsulorrhesis Forceps - AE-4390

Square profile of jaws seal the incision, eliminating viscoelastic leaking and anterior chamber flattening. Opening and closing within anterior chamber so incision is not stretched. Jaws open to a maximum of 2.8 mm. Tips feature 45° angle for better visualization, and laser lines for measurement



## Gaskin Fragment Forceps - AE-4391

Overall length: 102 mm

Angle to tip: 11 mm

Angled. very delicate. smooth jaws



## Kraff-Utrata Capsulorrhesis Forceps

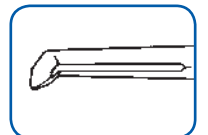
**AE-4394**

**AE-4394L** With laser lines

**AE-4394S** With sharp tip to be used as a cystotome

**AE-4394SL** With sharp tip and laser lines

Recessed jaws prevent inadvertent iris pickup, Tongue and groove system keeps jaws aligned



# FORCEPS

## Kraff- Utrata Capsulorrhexis Forceps

**AE-4395SN** With sharp tip

**AE-4395SL** With sharp tip and laser lines

Overall length: 105 mm

Angle to tip: 11 mm

Vaulted. with sharp tip to be used as a cystotome, Tongue and groove system keeps jaws aligned



## Kellan Capsulorrhexis Forceps

**AE-4397**

**AE-4397V** Vaulted

**AE-4397VL** Vaulted with laser lines

Overall length: 105 mm

Angle to tip: 11 mm

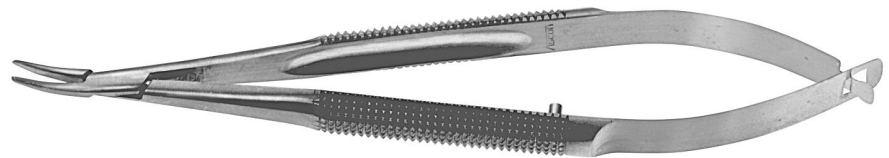
Cupped tips effectively grasp the anterior capsule. Tongue and groove system keeps jaws aligned



## Troutman Tying Forceps - AE-4398

Overall length: 118 mm

For 4-0 to 7-0 sutures

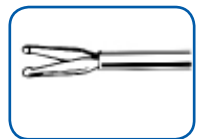


## Kansas Nucleus Fragment Forceps - AE-4399

Overall length: 105 mm

Angle to tip: 9.5 mm

9.5 mm jaws with multiple teeth, for manual nuclear fragmentation



## Berke Ptosis Forceps

**AE-4400** 20 mm

**AE-4401** 27 mm

Overall length: 107 mm

With sliding lock, longitudinally grooved jaws



## Ikeda-Nozomi Capsulorrhexis Forceps – AE-4402

23 Gauge  
Overall Length: 140 mm  
Shaft Length: 24 mm  
Shaft Diameter: 0.55 mm

Forceps tip has unique design like Japan's Shinkansen Super Express. The unique shape of the tip allows for better visibility and maneuverability through the paracentesis incision. Broad shape of the blades ensure a firm grip. Sharp tip may be used as a cystotome.



## Ikeda Nozomi Capsulorrhexis Forceps w/ Short Shaft & Handle – AE-4402S

## Fujita Capsulorrhexis Forceps – AE-4403

Overall Length: 98.5 mm  
Hinge to Tip: 9 mm

Spring handle forceps for more tactile feedback. Fits through a 2.2 mm incision. Sharp tips can be used as a cystotome. Improved hinge joint for better durability. Fenestrated handle to reduce the weight of the instrument.



## Kawai Capsulorrhexis Forceps – AE-4404

25 gauge (.50 mm),  
Serrations, Sharp Tip can be used as Cystotome,  
Overall Length: 117 mm. Tips are at a 45 degree angle  
Serrations extend to end of the jaws for better grasp of the anterior capsule in the presence of viscoelastic. Recessed space in jaws prevents inadvertent iris pickup. Jaws open wider for better visibility. Round handle provides better control.

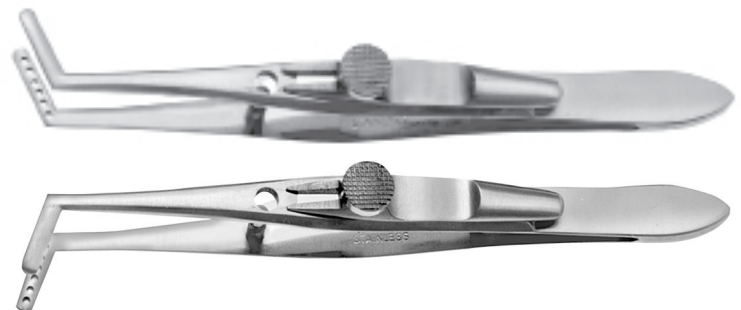


## Jameson Muscle Forceps

AE-4410 Right

AE-4411 Left

Overall length: 100 mm  
Angle to tip: 12 mm  
With sliding lock, 6 teeth, adult size



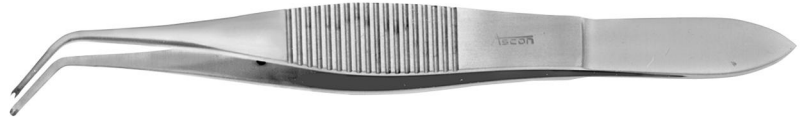
## Nugent Superior Rectus Forceps - AE-4420

Overall length: 97 mm  
Angled, 1 x 11 teeth



## Troutman Superior Rectus Forceps - AE-4430

Overall length: 106 mm  
1.2 mm wide angled jaws,  
1x 2 teeth, 0.50 mm



## Bonaccolto Utility Forceps

**AE-4440** 1.20 mm wide

**AE-4441** 1.70 mm wide

Overall length: 113 mm  
Longitudinally serrated jaws with  
cross serrations at tips



## Zaldivar-Kraff ICL® PACman Forceps – AE-4446

Shaft: 0.9 mm  
Overall Length: 148 mm

Features specially designed jaws with atraumatic ridges to grasp the ICL® without damaging it. Rounded edges and a hole on the upper jaw allow for easy identification of the lens and improved visualization. The gentle curve at the tip of the jaws contours to the curvature of the optic so that it is not touched by the forceps. The length of the jaws align with the length of the haptics and the jaws open wider for an easy grasp.



ICL® is a registered brand of Staar Surgical.



## Nakamura ICL Loading/Removal Forceps - AE-4447

Overall length: 149 mm,  
tip width: 1.55 mm and tip length: 4.5 mm.

Features specially designed jaws with atraumatic ridges to grasp the ICL® without damage, rounded edges and a hole on the upper jaw for easy identification of the lens allowing improved visualization.



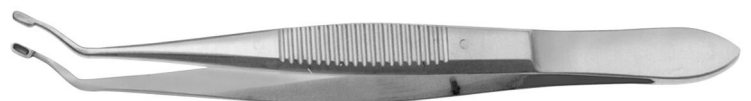
## Arruga Capsule Forceps - AE-4500

Standard curve  
Overall length: 98 mm



## Arruga Capsule Forceps - AE-4501

New curve  
Overall length: 98 mm



## Kraff-Utrata Capsulorrhexis Forceps, w/ Vault, Laser Lines, Round Handle – AE-4504RH

Overall Length: 106 mm  
Blade Length: 11 mm

Jaws are recessed to prevent iris pickup. Thin blades manipulate easily through a 2.0 mm or smaller incision. Laser lines 1.0 mm apart allow measurement of the capsulorrhexis. Sharp tip acts as a cystotome. Tongue and groove mechanism prevents jaw misalignment.



## Kraff-Utrata Capsulorrhexis Forceps w/ Straight Tip, Laser Lines, Round Handle – AE-4503RH



## Barraquer Cilia Forceps - AE-4520

Overall length: 703 mm  
Lightly angled, smooth jaws



## ASICO Cilia Forceps with Fine Tips – AE-4528

Overall Length: 110 mm  
Platform Length: 3 mm

These forceps have fine sand blasted tips that allow for a better grasp of the eyelashes.



## Erhardt Lid Forceps - AE-4530

Overall length: 90 mm  
Width of oval: 26 mm  
Oval



## Graether Pupil Expander Forceps – AE-4545

Overall Length: 100 mm  
Bend to Tip: 10.4 mm

Flat jaws designed for easy, controlled pick-up and accurate placement of the silicone ring for dilating small pupils.





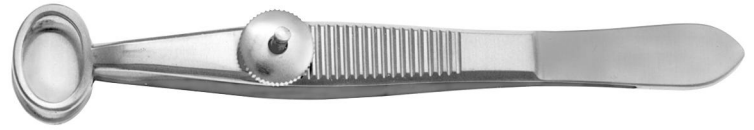
# FORCEPS

## Baird Chalazion Forceps - AE-4600

Overall length: 98 mm

Tip width: 14 mm

Oval, small



## Desmarres Chalazion Forceps - AE-4610

Overall length: 90 mm

Tip width: 26 mm

Large



## Francis Chalazion Forceps - AE-4620

Overall length: 97 mm

Tip width: 17 mm

Medium



## Hunt Chalazion Forceps - AE-4630

Overall length: 97 mm

Tip width: 15 mm

Round



## Lambert Chalazion Forceps - AE-4640

Overall length: 92 mm

Tip width: 11 mm

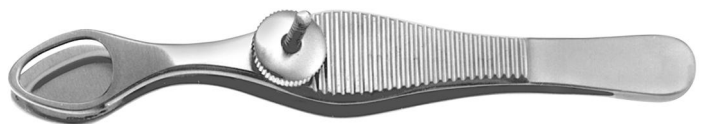
Round, small



## Lordan Chalazion Forceps - AE-4650

Overall length: 92 mm

Triangular jaws



# FORCEPS

## Wies Chalazion Forceps - AE-4660

Overall length: 94 mm  
Tip width: 15 mm  
Grooved upper jaw



## ASICO Jeweler's Forceps - AE-4701 #1

Overall length: 120 mm  
Standard tips



## ASICO Jeweler's Forceps - AE-4703 #3

Overall length: 117 mm  
Delicate tips



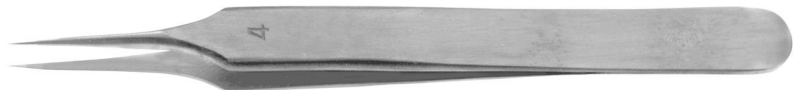
## ASICO Jeweler's Forceps - AE-4703C #3C

Overall length: 110 mm  
Delicate, short tips



## ASICO Jeweler's Forceps - AE-4704 #4

Overall length: 110 mm  
Delicate tips



## ASICO Jeweler's Forceps - AE-4705 #5

Overall length: 110 mm  
Delicate tips

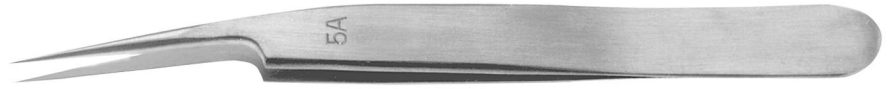




# FORCEPS

## ASICO Jeweler's Forceps - AE-4705A #5A

Overall length: 115 mm  
Delicate, angled tips for removal of  
9-0 and 10-0 sutures



## ASICO Jeweler's Forceps - AE-4707 #7

Overall length: 110 mm  
Curved tips



## Baby Jones Towel Clamp - AE-4800

Overall length: 60 mm  
Cross action



## Halsted Mosquito Forceps

AE-4810 Straight

AE-4811 Angled  
Overall length: 120 mm  
Delicate, serrated tips



## Hartmann Mosquito Forceps

AE-4815 Straight

AE-4816 Angled  
Overall length: 93 mm  
Delicate, serrated tips



## Serrefine - AE-4820

Overall length: 36 mm  
Small, straight



## Akahoshi Scrubbing Forceps - AE-4821



# FORCEPS

## Scleral Plug Forceps - AE-4900N

Overall length: 97 mm  
For implanting scleral plugs of various sizes



## ICMS™ Tying Forceps

**AE-4906** curved shaft

**AE-4908** straight shaft

23 Gauge

Shaft Length: 28 mm

Features specially designed jaws for handling the sutures securely without damage.



## Chee Subluxated IOL Grasping Forceps – AE-4907

21 Gauge

Overall Length: 128 mm

Tip Blade Length

Tip Length: 2.86 mm

This specially designed atraumatic forceps has gently sand-blasted gripping surfaces that allow the surgeon to reach and hold onto the IOL optic or haptic as needed.



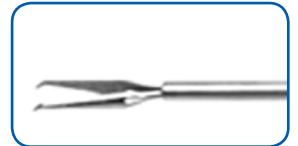
## VRTIS™ Tanaka Maculorhexis Trocar Forceps – AE-4909

23 Gauge

Overall Length: 146 mm

Designed to go through 23 gauge trocar.

Forceps designed to perform rhexis on the macula. Specially designed tip to initiate the rhexis. Jaws of the forceps are treated for maximum secure grasping.



## Watzke Sleeve Spreader - AE-4910

Overall length: 114 mm



## VRTIS™ Tano Asymmetrical Forceps

**AE-4911** 23 gauge

**AE-4923** 25 gauge

**AE-4916** 27 gauge

Overall Length: 144 mm

Designed to ensure an excellent grip and visibility. Platform

is pointed to one side for precise grasping along the retinal surface. Can be used through the respective gauge size trocar.



## VRTIS™ Fine End Gripping Forceps

**AE-4912** 23 gauge

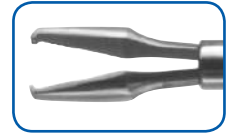
**AE-4924** 25 gauge

Overall Length: 146 mm

Tip Length: 35 mm

Features a blunt tip with a small 1.25 mm angled platform for precise grasping of the thin membrane.

A multi utility design for a variety of VR procedures including ILM, maculorrhexis and other VR procedures.



## VRTIS™ Thin Fine End-Gripping Forceps

**AE-4912T** 23 gauge

**AE-4924T** 25 gauge

**AE-4917** 27 gauge

Overall Length: 144 mm

Thinner version of VRTIS™ Fine End-Gripping Forceps. Thin profile increases accessibility to and maneuverability around the macular region. Thin version is recommended for peeling small areas of ILM with lighter adhesion. Fits through respective gauge trocar size.



## VRTIS™ Corcostegui Pick Forceps

**AE-4913** 23 gauge

**AE-4925** 25 gauge

**AE-4915** 27 gauge

Overall Length: 144 mm

Curved jaws are designed to provide increased visibility while grasping and elevating the membrane even when jaws are closed. Broad surface of the tip allows for effective picking and peeling. Can be used through respective gauge size trocar.



## VRTIS™ Thin Corcostegui Pick Forceps

**AE-4913T** 23 gauge

**AE-4925T** 25 gauge

Overall Length: 144 mm

Thinner version of the Corcostegui Pick Forceps. Thin profile allows more precise grasping and tissue removal can be achieved with a single maneuver. Concave jaws provide optimal visibility. Broad spatulated tips allow for effective picking and peeling of the ILM. Thin version is ideal for smaller surface areas with less adhesion. Can be used through the respective gauge size trocar.



## VRTIS™ Serrated Forceps

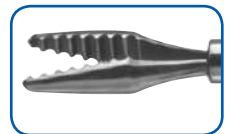
**AE-4914** 23 gauge

**AE-4926** 25 gauge

Overall Length: 146 mm

Tip Length: 35 mm

Features serrations on the inside 1.50 mm length of the jaw. Designed for effective non-slip grasping of the membrane. These forceps are excellent for manipulating fibrotic membrane.



## VRTIS™ Kawai Pick Forceps – AE-4918

23 Gauge  
Overall Length: 148 mm

Fine serrated platform with 45° pick facilitates firm grasp of ELM without initial flap by MVR. Curved shaft for easy access into the vitreous cavity. Can be used through a 23 Gauge trocar.



## VRTIS™ Pick and Peel Forceps

**AE-4919** 23 gauge

**AE-4929** 25 gauge  
Overall Length: 148.5 mm  
Tip Length: 35 mm  
Jaw Length: 1.8 mm

Forceps are designed to grab the donor button safely and effectively with the pull-through technique. 0.12 mm bonn style tips provide for easier hold of the donor button. Small gauge size reduces the possibility of anterior chamber leak. Uniquely designed tips assist in easy picking and peeling of the ILM membrane.



## VRTIS™ Horio ILM/Subretinal Forceps – AE-4927

25 Gauge  
Overall Length: 144 mm

25 gauge forceps allows for better visibility while peeling the ILM membranes. Blunt tips with platform provide a safety feature while peeling the ILM membrane.



## Zaldivar Iridectomy Forceps - AE-4965

Overall length: 140 mm  
23 gauge straight instrument can be used through paracentesis incision. Serrated jaws effectively grasp the iris. 90° angled tip is perpendicular to the iris plane for easy iris pickup. Can be used with AE-5665 Iridectomy Scissors



## John Retrocorneal Super Micro Forceps – AE-4962

23 Gauge  
Overall Length: 138 mm  
Tip Length: 25 mm

The round, smooth handle on these micro forceps allow for side-to-side rotation for holding, pulling and retracting tissues at different angles within the anterior chamber at the retrocorneal plane. The micro-forceps also effectively hold corneal tissue within its microplatforms



## Alio Iridectomy Forceps, Curved Shaft – AE-4965S

23 Gauge  
Overall Length: 134 mm  
Shaft Length: 21 mm

Can be used through sideport. Curvature of shaft ideal for capsulorrhexis. Round handle for easy maneuverability. Angled 90° tip has serrated jaws and is perpendicular to the iris plane for easy pick up of the iris. Forceps can be used through the paracentesis incision and the tip of the forceps can be used as a cystotome.



## Nishi Tension Ring II – AE-4967

Overall Length: 158 mm  
Shaft Size: 33 mm  
Shaft Diameter: 1 mm

Micro hook engages the eyelet of the tension ring and draws the ring into the tube without damage or loss of shape. The tension ring can be engaged clockwise or counterclockwise, unlike similarly designed instruments.



## Nishi Tension Ring Forceps/Manipulator – AE-4969

21 Gauge  
Overall Length: 134 mm  
Shaft Length: 25 mm

Tip fits well through a sideport incision. Distal tip is made up of a disc with a hole to accommodate the manipulator. The manipulator can be used independently and is designed to engage the eyelet of the tension ring to guide the ring around the capsule. The combination of the disc and the manipulator can be used as a forceps to guide the tension ring around the cataract mass to be placed in the capsule.



## Tanaka Maculorrhexis Forceps – AE-4975

23 Gauge  
Overall Length: 137.5 mm  
Shaft Length: 27.5 mm

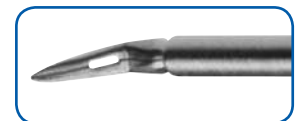
Forceps designed to perform rhexis on the macula. Specially designed tip to initiate the rhexis. Jaws of the forceps are treated for maximum secure grasping.



## Kawai ILM Forceps – AE-4980

25 Gauge  
Overall Length: 142 mm  
Shaft Length: 32 mm

Forceps with a specially designed platform for better visibility of thin membrane in the macular region. Coated jaws for secure grasp with a non glare finish.



# FORCEPS

## VRTIS™ Kawai ILM Forceps

**AE-4982** 23 gauge, curved shaft

**AE-4983** 25 gauge, straight shaft

Overall Length: 142 mm

Shaft Length: 32 mm

Fits through a trocar. Forceps with a specially designed platform for better visibility of thin membrane in the macular region. Coated jaws for secure grasp with a non glare finish.



## Kawai Sub Retinal Forceps – AE-4990

23 Gauge

Overall Length: 149 mm

Tip Length: 4 mm

Tip tapers to 25 gauge. Serrated jaws effectively grasp sub-retinal neovascular membrane through a small retinectomy incision.



# AE - 5000 SERIES

Description	Page
Corneal section (Corneoscleral) Scissors	123-124
Corneal Transplant Scissors	124
Iris Scissors	125-126,134
Vannas Scissors	126-128
Capsulotomy Scissors	126-127
Conjunctival Scissors	128
Stitch Scissors	129,132
Vitreous Scissors	130
DALK Scissors	131
Iridectomy Scissors	126,131
Tenotomy Scissors	128,133
Strabismus Scissors	133
Enucleation Scissors	133

Some models feature stop in order to advance scissors without the blades being removed from the incision.

Scissors which feature inner blade longer than outer blade are also for advancing scissors without removing the blades from the incision.

# SCISSORS

## **Barraquer** Corneal Section (Corneoscleral) Scissors

**AE-5000** Right

**AE-5001** Left

Overall length: 121mm

Length of blades: 10.0mm

Angled with stop



## **Barraquer** Corneal Section - **AE-5002**

(Corneoscleral) Scissors

Right

Overall length: 108mm

Length of blades: 8.0mm

Angled with stop



## **Castroviejo** Corneal Section (Corneoscleral) Scissors

**AE-5012** Right

**AE-5013** Left

Overall length: 108mm

Length of blades: 6.0mm

Inner blade 0.5mm longer than outer blade



## **Troutman-Castroviejo** Corneal Section (Corneoscleral) Scissors

**AE-5030** Right

**AE-5031** Left

Overall length: 108mm

Length of blades: 10.0mm With stop





# SCISSORS

## Troutman - Castroviejo Corneal Section (Corneoscleral) Scissors

AE-5032 Right

AE-5033 Left

Overall length: 108mm

Length of blades: 6.0mm

With stop



## Nordan Corneal Transplant Scissors - AE-5045N

Left

Overall length: 108mm

Length of blades: 7.0mm

Curved, delicate blades



## Castroviejo Universal Corneal Scissors

AE-5052N Small 10.0mm Blades

AE-5054N Medium 12.0mm Blades



## Castroviejo Keratoplasty Scissors - AE-5062

12.0mm Blades

Overall length: 114mm

Angled to side, blunt tips



# SCISSORS

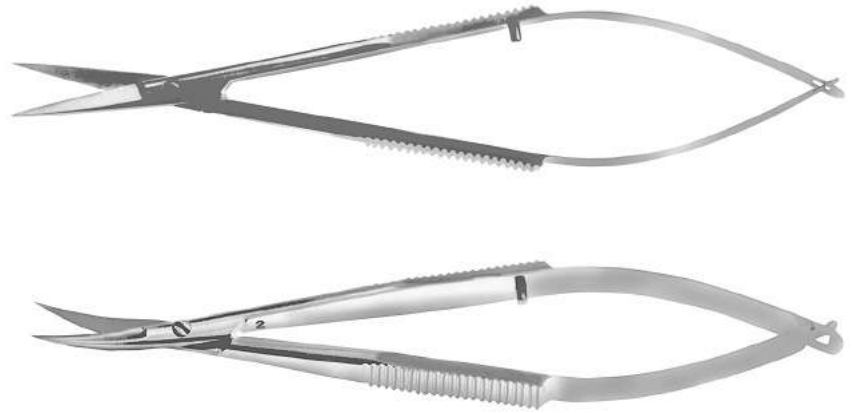
## Iris Scissors

AE-5100 Straight

AE-5101 Curved

Overall length: 110mm

Length of blades: 15.0mm



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## Micro Iris Scissors

AE-5110 Straight

AE-5111 Curved

Overall length: 100mm

Length of blades: 8.0mm



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## McPherson-Vannas Iris Scissors - AE-5120

Overall length: 83mm

Length of blades: 9.0mm

Curved, sharp tips, miniature



# SCISSORS

## Borroquer Iris Scissors - AE-5220

Overall length: 54mm  
Length of blades: 7.0mm  
Blunt tips

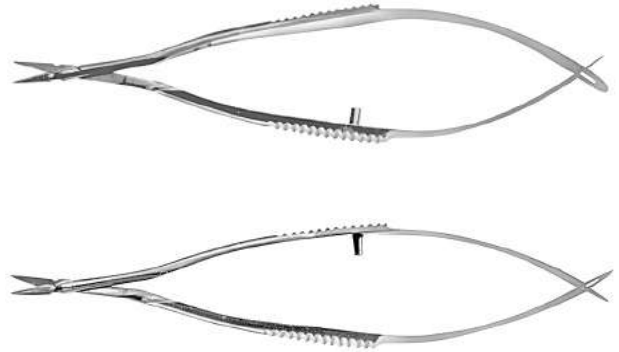


## Vannas Capsulotomy Scissors

**AE-5400** Straight

**AE-5410** Curved

Overall length: 83mm  
Length of blades: 8.0mm  
Very delicate tips

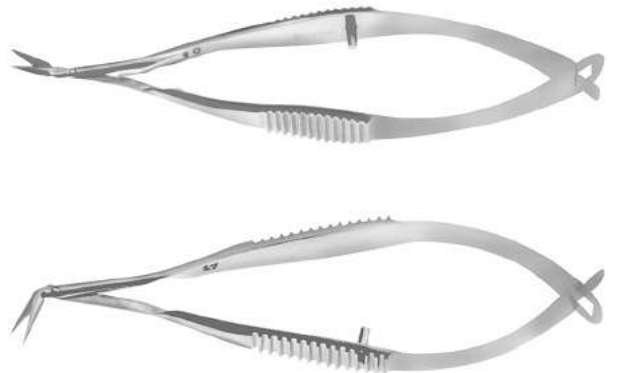


## Vannas Capsulotomy Scissors

**AE-5420** Angled up

**AE-5430** Angled to side

Overall length: 83mm  
Length of blades: 7.0mm  
Very delicate tips



## Shimowake Nucleus/IOL Scissor, Serrated - AE-5437

Overall Length: 87mm  
Blade Length: 9.2mm

Features specially designed tips to cut an acrylic lens and the nucleus



# SCISSORS

## Akahoshi IOL Scissors – AE-5438

Overall Length: 85mm  
Blade Length: 9.5mm

Features specially designed tips to cut an acrylic lens and the nucleus. For added safety, the tips of the scissors have a rounded ball to prevent any potential tears on the capsule and/or the iris.



## Stern-Gills Capsulotomy Scissors - AE-5490

Overall length: 108mm  
Length of blades: 10.0mm  
Extra thin blades



## Hoffer-Stern Capsulotomy Scissors - AE-5491

Overall length: 108mm  
Length of blades: 10.0mm  
Extra thin, curved, sharp, convex blades, Ideal for cutting anterior capsule



## Uribe-Stern Capsulotomy Scissors - AE-5492

Overall length: 108mm  
Length of blades: 10.0mm  
Extra thin, curved, concave, sharp blades. Ideal for cutting anterior capsule



## ASICO- Vannas Scissors - AE-5495N Straight

Overall length: 108mm  
Length of blades: 10.0mm  
Extra thin, sharp points. Ideal for cutting anterior capsule



# SCISSORS

## ASICO-Vannas Scissors AE-5496

Curved  
Overall length: 108mm  
Length of blades: 10.0mm  
Extra thin, sharp points. Ideal for cutting anterior capsule



## Westcott Tenotomy Scissors

AE-5500 Right

AE-5501 Left

Overall length: 114mm  
Length of blades: 22.0mm  
Curved, blunt blades



## McPherson- Westcott Conjunctival Scissors - AE-5505

Overall length: 108.0mm  
Length of blades: 10.0mm  
Curved, blunt tips



## ASICO Conjunctiva Scissors – AE-5507

Overall Length: 121.00mm  
Length of Blades: 11.00mm  
These scissors are designed with a precise finish on the tips and the handles.



## ASICO Conjunctiva Scissors II – AE-5508

Overall Length: 110mm  
Designed with a matte finish on the tips and handle.



## McPherson- Westcott Stitch Scissors - AE-5509

Overall length: 108mm  
Length of blades: 10.0mm  
Very sharp pointed tips



# SCISSORS

## Westcott- Type Stitch Scissors - AE-5510

Overall length: 112mm  
Length of blades: 22.0mm  
Sharp pointed tips



## VRTIS™ Curved Scissors

**AE-5606** 23 gauge

**AE-5623** 25 gauge

**AE-5626** 27 gauge

Overall Length: 146mm  
Tip Length: 35mm  
Blade Length: 1.25mm

Multi purpose scissors featuring 1.25mm curved blades. This allows the blade to contour to the profile of the globe for cutting the membrane on the surface.



## VRTIS™ Ohji Angled Horizontal Scissors

**AE-5607** 23 Gauge

**AE-5680** 25 Gauge

Overall Length: 144mm  
Blade Length: 3.15mm  
Shaft Length: 28mm

Blades with 30° bend allow for easy insertion and contour to the profile of the globe to safely cut the membrane along the retinal surface. Shaft has a non-glare surface finish.



## VRTIS™ Vertical Scissors

**AE-5608** – 23 Gauge

**AE-5625** – 25 Gauge

Overall Length: 146mm  
Tip Length: 35mm  
Blade Length: 1.75mm

45° angled vertical scissors with 1.75mm distal blade. Designed to be stationary in order to provide precise control when cutting. Thin profile of the distal blade allows precise control with minimal risk to the choroids or underlying membrane.



## VRTIS™ Kusaka Vertical Scissors – AE-5609

23 Gauge

Overall Length: 148mm

Blade Length: 2.3mm

Has 45° angled scissors with thin profile that allows precise control with minimal risks to choroids or underlying membrane. Scissors feature rounded tips to pick-up the tissue before cutting. Can be used through a 23 gauge trocar.



# SCISSORS

## Vitreous Scissors

**AE-5611** 20 gauge (with irrigation)

**AE-5612** 18 gauge (with fiber optic)

Overall length: 145mm

Length of blades: 3.0mm

Straightjaws



## ICMS™ Scissors, Curved – AE-5613

21 Gauge

Overall Length: 149mm

Tip Length: 38mm

A multi-functional design that features curved blades to effectively cut capsular tags, irises, haptics of IOLs and sutures.

DVD  
AVAILABLE



## Kusaka Non Trocar Vertical Scissors – AE-5614

23 Gauge

Overall Length: 147mm

Tip Length: 34mm

Jaw Length: 1.5mm

Has 45° angled scissors with a thin profile that allows precise control with minimal risks to choroids or underlying membrane. Long blades offer efficient membrane dissection. Blunt tips of scissors are less traumatic to the retina. Used in pediatric cases.



## Horio ILM/Subretinal Scissors – AE-5615

25 Gauge

Overall Length: 144mm

The blunt tips provide a safety feature while peeling the ILM and the sandblasted platform helps catch the ILM. This long platform helps grab the subretinal strand behind the retina, while the space between the platform and the base prevents one from catching the retina.



## Vitreous Scissors - AE-5622

18 gauge (with fiber optic)

Overall length: 145mm

Length of blades: 3.0mm

Jaws angled 30°



# SCISSORS

## Kawai Horizontal Scissors – AE-5663

25 Gauge

Overall Length: 117mm

Tip Length: 2.7mm

Vertical horizontal scissors used for Iris reconstruction. Popular alternative to an iris retractor for cataract surgery on patients with poor mydriasis. Features short handle and short shaft for easy handling.



## Zaldivar Iridectomy Scissors - AE-5665

Overall length: 140mm

20 gauge instrument can be used

through paracentesis incision.

Curved blades for cutting ease and better visualization. For use with iridectomy forceps (AE-4965)

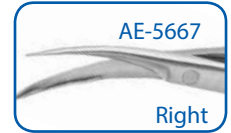


## Tan DALK Scissors, Left – AE-5666

Overall Length: 113mm

Blade Length: 11mm

Used to remove the anterior layer of corneal stroma to expose the stromal bed prior to air injection. Scissors cut the posterior stroma lamella into 4 quadrants and remove after big bubble formation. Platform on the bottom blade catches the top cutting blade to protect the DM.



## Tan DALK Scissors, Right – AE-5667

## John ALK Scissors, Right – AE-5668

Overall Length: 113mm

Blade Length: 11mm

Specially designed to prevent tearing of DM while cutting the recipient corneal stroma. Rounded, spatulated tip pushes the DM down and catches the cutting blade.



## John ALK Scissors, Left – AE-5668L

## Nishi Schlemm's Canal Scissors – AE-5669

21 Gauge

Overall Length: 135mm

Tip Length: 25mm

Designed for deep sclerotomy and viscocanalostomy procedures. The above procedure calls for separating of the outer wall of the Schlemm's canal from the adjoining scleral tissue. The scissors features a thin curved blade to precisely cut the scleral tissue adhering to the Schlemm's canal. The scissors feature a thin shaft with a precise handle to cut the delicate tissue.





## Iris Scissors

**AE-5700** Straight

**AE-5701** Curved

Overall length: 98mm

Length of blades: 27mm

Delicate, pointed tips



## Eye Scissors

**AE-5702** Straight

**AE-5703** Angled

Overall length: 109mm

Length of blades: 30mm

Standard, pointed tips



## Eye Scissors

**AE-5705** Straight

**AE-5706** Angled

Overall length: 100mm

Length of blades: 28mm

Standard, large rings



## Stitch Scissors - **AE-5710**

Overall length: 102mm

Length of blades: 32mm

Needle points, lightly curved, ring handle



# SCISSORS

## Stevens Tenotomy Scissors

**AE-5720** Straight

**AE-5721** Curved

Overall length: 112mm

Length of blades: 32mm

Blunt tips, ring handle



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## Strabismus Scissors

**AE-5730** Straight

**AE-5731** Curved

Overall length: 105mm

Length of blades: 30mm

Blunt tips, ring handle



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## Enucleation Scissors

**AE-5740** Medium Curve

**AE-5741** Strong Curve

Overall length: 130mm

Length of blades: 43mm



# AE - 6000 SERIES

Description	Page
McPherson Needle Holders	135
Barraquer Needle Holders	135-136
Troutman Needle Holders	136
ASICO Needle Holders	136
Castroviejo Needle Holders	136-137
Kalt Needle Holder	137
McIntyre Needle Holder	137
ICMS Needle Holder	137

All needle holders are designed with beveled jaws to facilitate the suturing procedure and to eliminate the possibility of inadvertently breaking the suture.

Suture Cutter Models are designed to cut 9-0 to 11-0 sutures, except models AE-6160 and AE-6161, which can be ordered with suture cutters to cut 5-0 to 7-0 sutures.

# NEEDLE HOLDERS

## McPherson Needle Holder

**AE-6000** Straight, with lock

**AE-6001** Straight, without lock

**AE-6010** Curved, with lock

**AE-6011** Curved, without lock

Overall length: 110mm

Length of jaws: 8.0mm

Extra-delicate jaws. Ideal for 8-0 to 11-0 sutures



## Barraquer Needle Holder

**AE-6100** Straight, with lock

**AE-6101** Straight, without lock

**AE-6110** Curved, with lock

**AE-6111** Curved, without lock

Overall length: 110mm

Length of jaws: 8.0mm

Short model, delicate jaws. Ideal for 8-0 to 11-0 sutures



## Barraquer Needle Holder

**AE-6130N** Straight, with lock

**AE-6131** Straight, without lock

**AE-6140** Curved, with lock

**AE-6141** Curved, without lock

Overall length: 135mm

Length of jaws: 9.0mm

Delicate jaws. Ideal for 8-0 to 11-0 sutures



# NEEDLE HOLDERS

## Troutman Needle Holder

**AE-6150** With lock

**AE-6151** Without lock

Overall length: 120mm

Length of jaws: 8.5mm

Strongly curved, delicate jaws.

Ideal for 8-0 to 11-0 sutures



## Barraquer Needle Holder

**AE-6160** Curved, with lock

**AE-6161** Curved, without lock

Overall length: 135mm

Length of jaws: 10.0mm

Standard jaws. Ideal for 4-0 to

7-0 sutures. Can be ordered

with a suture cutter to cut 5-0,

6-0, and 7-0 sutures. A suture

sample will be required



## ASICO Needle Holder

**AE-6170** Straight, with lock

**AE-6171** Straight, without lock

**AE-6172** Curved, with lock

**AE-6173** Curved, without lock

Overall length: 125mm

Length of jaws: 6.0mm

Extra delicate jaws. Ideal for

8-0 to 11-0 sutures



## Castroviejo Needle Holder

**AE-6200N** Straight, with lock

**AE-6201** Straight, without lock

**AE-6210** Curved, with lock

**AE-6211** Curved, without lock

Overall length: 140mm

Length of jaws: 9.0mm

Delicate jaws. Ideal for 7-0 to

9-0 sutures



# NEEDLE HOLDERS

## Castroviejo Needle Holder

**AE-6220** Straight, with lock

**AE-6230** Curved, with lock

Overall length: 140mm

Length of jaws: 10.0mm

Standard jaws. Ideal for 4-0 to 7-0 sutures



## Kalt Needle Holder - AE-6300

Overall length: 137mm

Length of jaws: 10.0mm

Straight, lightly serrated jaws. Ideal for 5-0 to 6-0 sutures



## Mcintyre Fish Hook Needle Holder - AE-6400

Straight, with lock

Overall length: 121mm

Length of jaws: 4.0mm

Delicate jaws. Ideal for 8-0 to 11-0 sutures



## ICMS™ Needle Holder

**AE-6902** Straight

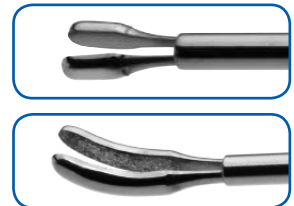
**AE-6903** Curved

21 Gauge

Overall Length: 138mm

Shaft Length: 28mm

Specially treated tungsten carbide jaws create a secure hold on the needle allowing for an easy intraocular suturing procedure.



# AE - 7000 SERIES

Description	Page
Air Injection (Rycoft) Cannulas	139
Lacrimal Cannulas	139
DMEK Cannula	139
Cyclodialysis Cannulas	140
Retrobulbar and Peribulbar Cannulas	140
Cystotomes	140-141
Subtenon Needle	140
Irrigating Cannulas	141-142
Silicone Bulb	141
LASIK Cannulas	143-144
Irrigation and Aspiration Cannulas	145
Adaptor	147
I/A Handpiece (Manual)	147
Cortex Extractor Cannulas	147-148
Capsule Polisher Cannulas	148-150
ICL Viscoelastic Cannula	149
Viscocanalostomy Cannula	149
Irrigating Vectis Cannulas	151
Hydrodissection Cannulas	151-154
Hydrodelineation Cannulas	152
Femtosecond cannula	154
Irrigating Lens Manipulator Cannulas	155
Retinal Back Flush Needle and Handles	157
Retinal Back Flush Needles and Handles	158
Scleral Plugs	158
DALK Cannula	156-157
Infusion Cannulas	158

All irrigating and aspirating cannulas have irrigation on the tubing hubs and aspiration on the needle hubs (except AE-7330)

Gauge	ID* (inch)	ID*(mm)	ID** (inch)	ID** (mm)
19g	.028	.70	.043	1.10
20g	.024	.60	.036	.90
21g	.020	.51	.032	.80
22g	.016	.41	.028	.70
23g	.013	.33	.025	.60
24g	.012	.30	.022	.55
25g	.010	.25	.020	.50
26g	.010	.25	.018	.45
27g	.008	.20	.016	.40
28g	.007	.18	.014	.36
29g	.007	.18	.013	.33
30g	.006	.15	.012	.30

# CANNULAS

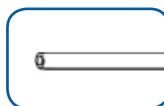
## Air Injection (Rycroft) Cannula

**AE-7000** 30 gauge

**AE-7001** 27 gauge

Overall length: 32 mm

Angle to tip: 5.0 mm



## Ahn DMEK Cannula

**AE-7002** 23 Gauge

**AE-7004** 27 Gauge

Overall Length: 41 mm

Tip Length: 0.17 mm

This device is used to inject air. Using bend to tip portion, it is easy to sweep across the anterior segment surface to open the graft.



## John DMEK Cannula – AE-7003

30 Gauge

Overall Length: 41 mm

Shaft Length: 23.5 mm

Tip Length: 2.6 mm

Facilitates irrigation of BSS and air injection into the recipient anterior chamber as needed during the transplantation of the DM to the recipient cornea.



## Kobayashi DMEK Cannula (25g-30g) Curved – AE-7005

## Kobayashi DMEK Cannula (25g-33g) Curved - AE-7006

Overall Length 41 mm



## Akahoshi Conjunctiva Irrigator – AE-7009

Conjunctival sac irrigator is attached to a 20cc disposable syringe filled with antiseptic solution

The irrigator is carefully introduced into the conjunctival fornix while the patient is closing their eye

As the plunger of the syringe is pushed, the conjunctiva is perfectly washed out by the antiseptic solution which is irrigated through multiple holes on the cannula



## Lacrimal Cannula

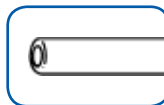
**AE-7010** 23 gauge, straight

12 mm malleable tip

**AE-7011** 23 gauge, curved

15 mm malleable tip

Overall length: 32 mm



## Mcintyre Lacrimal Cannula

**AE-7020** 23 gauge, straight

**AE-7021** 23 gauge, curved

Overall length: 46 mm

0.30 mm side port





# CANNULAS

## Kelman Cyclodialysis Cannula

**AE-7030** 19 gauge, right opening

**AE-7031** 19 gauge, left opening

Overall length: 32 mm

Spatulated tip, side opening



## Randolph Cyclodialysis Cannula

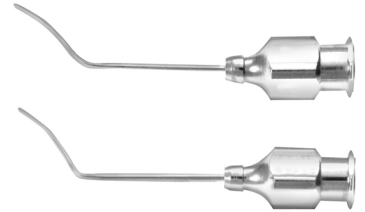
**AE-7040** 21 gauge

**AE-7041** 19 gauge

Overall length: 32 mm

Angle to tip: 12.0 mm

Spatulated tip, front opening



## Sheets Cyclodialysis Cannula - AE-7050

19 gauge

Overall length: 32 mm

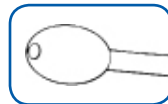
Spatulated tip, one front and two side openings



## Troutman Alpha-Chymotrypsin Cannula - AE-7060

25 gauge

Overall length: 28 mm



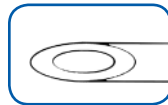
## Atkinson Retrobulbar Needle

**AE-7070** 23 gauge

**AE-7071** 25 gauge

Overall length: 35 mm

Beveled tip



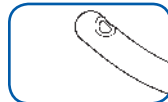
## Buratto Subtenon Needle - AE-7076

14 gauge tapering to 19 gauge

Overall length: 38 mm

Angle: 60°

For injection of anesthesia under conjunctiva



## Kelman Irrigating Cystotome - AE-7100

22 gauge

Overall length: 32 mm

Sharp on all sides



## Kelman Cystotome Cannula - AE-7101

Overall length: 32 mm

Blunt on all sides, sharp at the tip



## Kelman Double Blade Cystotome - AE-7102

# CANNULAS

22 gauge  
Overall length: 33 mm  
For triangular or Christmas tree  
style capsulotomy



## Kratz Cystotome - AE-7115

22 gauge, angled  
Overall length: 26 mm  
Angle to tip: 10.0 mm  
With sharp point and cutting edge



## Lieppman Micro Cystotome - AE-7120

22 gauge  
Overall length: 23 mm  
small and sharp cutting tip

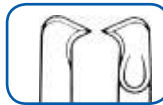


## Double Edge Cystotome

AE-7130 Small Size, 22 gauge

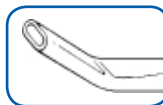
AE-7131 Micro Size, 22 gauge

Overall length: 21 mm  
With a sharp point and beveled cutting edge on all sides



## Fry Irrigating Cannula - AE-7190

18 gauge  
Overall length: 34 mm  
Angle to tip: 7.0 mm



## Silicone Bulb & Adaptor

AE-7195 Complete set

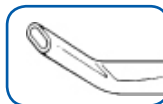
AE-7196 Bulb only

AE-7197 Adaptor only



## Bishop-Harmon Irrigating Cannula - AE-7200

19 gauge  
Overall length: 34 mm  
Angle to tip: 7.0 mm



# CANNULAS

## Binkhorst Irrigating Cannula

**AE-7201** 25 gauge, straight

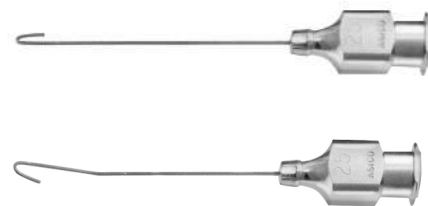
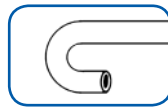
**AE-7202** 25 gauge, right

**AE-7203** 25 gauge, left

Overall length: 35 mm

Tip width: 2.5 mm

Smooth blunt tip, front opening, irrigation or aspiration in 12' o'clock position



## Binkhorst Irrigating Cannula

**AE-7204** 22 gauge, straight

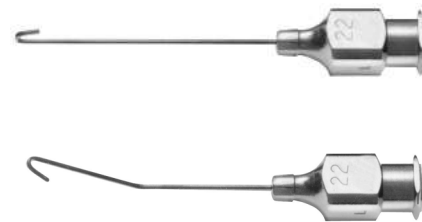
**AE-7205** 22 gauge, right

**AE-7206** 22 gauge, left

Overall length: 35 mm

Tip width: 2.5 mm

Smooth blunt tip, front opening, irrigation or aspiration in 12' o'clock position



## Knolle Anterior Chamber Cannula

**AE-7210** 30 gauge

**AE-7211** 23 gauge

Overall length: 19 mm

Angle to tip: 2.0 mm

Irrigating



## McIntyre Anterior Chamber Cannula

**AE-7218** 25 gauge, angled

**AE-7220** 23 gauge, straight

**AE-7222** 23 gauge, angled

**AE-7224** 26 gauge, straight

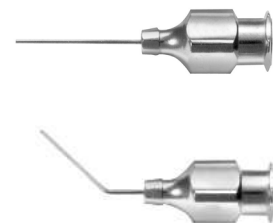
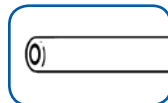
**AE-7226** 26 gauge, angled

**AE-7228** 30 gauge, straight

**AE-7230** 30 gauge, angled

Overall length: 17 mm

Irrigating



## McIntyre-Binkhorst Irrigating Cannula

**AE-7231** 26 gauge, right

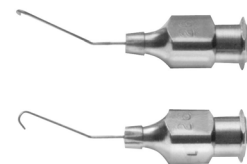
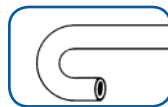
**AE-7232** 26 gauge, left

Overall length: 15 mm

Width of tip: 2.6 mm

Tip width: 2.5 mm

Smooth blunt tip, front opening for irrigation or aspiration in 12 o'clock position



## Shephard Air Injection Cannula

**AE-7250** 30 gauge, angled

**AE-7251** 27 gauge, angled

Overall length: 18 mm

Angle to tip: 5 mm

Flat tip for irrigating corneal incision



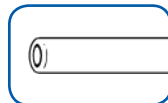
## Viscoelastic Aspirating Cannula

**AE-7270** 22 gauge

**AE-7271** 19 gauge

Overall length: 32 mm

Angle to tip: 10 mm



## Akahoshi Visco ICG Cannula AE - 7272

Overall length: 39mm

Designed to apply a small amount of Visco-ICG solution effectively on the capsular surface to paint the capsule. 27 gauge curved cannula with an oval port at its external tip



## Rubenstein LASIK Irrigation Cannula - AE-7277

23 gauge

Overall length: 45 mm

Width: 2.9 mm

Irrigation ports: 6; 2 ports on top, 2 on bottom and 2 at front center

Loop design and curved shape allows for better ability to clean the interface and stroke the flap into position in primary and retreatments



## Dishier LASIK Irrigation Cannula

**AE-7278** 9.0 mm for superior flap

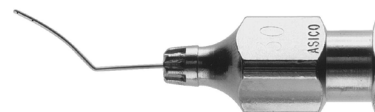
**AE-7279** 7.0 mm for nasal flap

Overall length: 15 mm

Angle: 50°

30 gauge with curved tip

Irrigation ports: 4; 2 ports on either side Curved to follow the natural curvature of the cornea, blunt tip prevents snagging stromal tissue. Effective for repositioning the flap and removing any excess fluid out of the interface



## Bansal LASIK Irrigation Cannula - AE-7280

25 gauge

Overall length: 40 mm

Irrigation ports: 1 front opening

Smooth beveled tip to dissect and lift the flap with minimum epithelial trauma



## Manche LASIK Irrigation Cannula

**AE-7281** 24 gauge

**AE-7287** 25 gauge

Overall length: 34 mm

Irrigation ports: 3, one port on each side of the cannula and one port facing down

Solid spatulated tip to facilitate insertion under the primary flap without disruption of the epithelium. Convex shape to conform with the curvature of the cornea and can be used to elevate and replace the flap



# CANNULAS

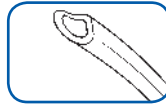
## Slade LASIK Irrigation Cannula

**AE-7282** 26 gauge

**AE-7283** 27 gauge

Overall length: 33 mm

Irrigation ports: 1 front opening Spatulated tip for easy entry beneath the flap. Cross section permits sideways entry into the flap without dragging the epithelium into the interface



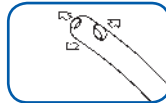
## Buratto LASIK Irrigation Cannula - AE-7284

25 gauge

Irrigation ports: 3

Overall length: 38 mm

Easy entry under the flap, cross section permits sideways entry into the flap without dragging the epithelium into the interface



## Kritzinger-Updegraff (KU) LASIK Irrigation Cannula - AE-7285

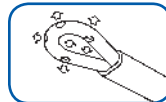
16 gauge

Overall length: 46 mm

Irrigation ports: 6

with low-flow BSS fluid to clean the interface,

Designed to connect to a BSS bottle to give a controlled continuous slow low flow of BSS underneath the flap



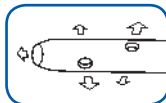
## Kritzinger Updegraff (KU) LASIK Aspiration Cannula - AE-7286

19 gauge

Overall length: 50 mm

Aspiration ports: 5

Aspirates excessive fluids. Numerous ports prevent the needle from being occluded by conjunctiva and insures continuous aspiration of BSS fluid



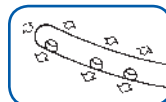
## Guell LASIK Irrigation Cannula - AE-7288

25 gauge

Overall length: 42 mm

Irrigation ports: 7

Designed for cleaning the interface while occupying a minimum amount of space under the flap



## Alio LASIK Irrigation Cannula - AE-7289

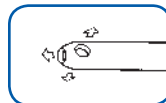
23 gauge

Overall length: 24 mm

Irrigation ports: 3

Angle to tip: 12.0 mm

Angle: 45°



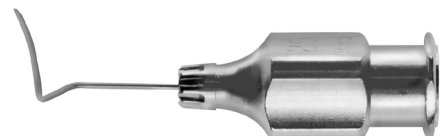
## Doane-Slade LASIK Irrigation Cannula

**AE-7290L** 26 gauge, left eye

**AE-7290R** 26 gauge, right eye

Overall length: 29 mm Irrigation ports: 1

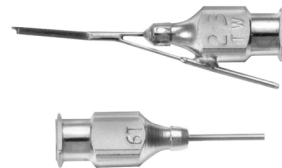
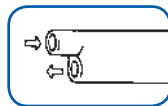
For superior flap LASIK



# CANNULAS

## Gills Irrigating-Aspirating Cannula - AE-7300

Overall length: 15 mm  
Angle to tip: 8.0 mm  
23 gauge thin wall irrigation,  
25 gauge aspiration, both ports  
exit forward, supplied with silicone tubing



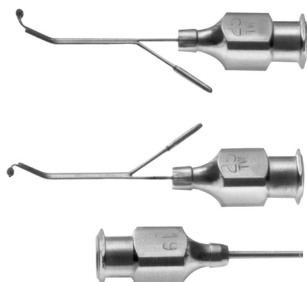
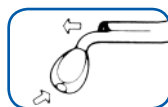
## Gills-Welsh Irrigating-Aspirating Cannula

AE-7304 Straight

AE-7305 Right

AE-7306 Left

Overall length: 25 mm  
With flat olive tip, 23 gauge thin wall irrigation, 25 gauge 0.30 mm port) thin wall  
aspiration, supplied with silicone tubing

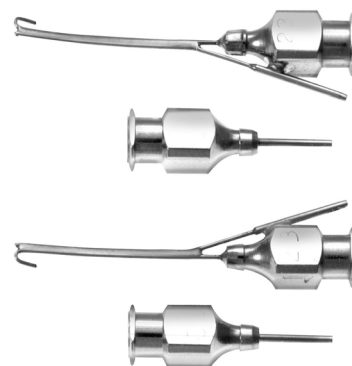


## Grandon Irrigating-Aspirating Cannula

AE-7310 Right

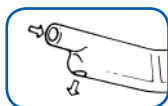
AE-7311 Left

Overall length: 27 mm  
23 gauge irrigating port to the side, aspirating cannula curved to side  
with port facing up, both ports 0.30 mm, designed for aspirating under the iris, supplied with silicone  
tubing



## Morrison Irrigating-Aspirating Cannula - AE-7320

Overall length: 22 mm  
25 gauge thin wall irrigating with  
0.30 mm side opening, 23 gauge  
aspirating cannula with 0.50 mm  
front opening, supplied with silicone tubing

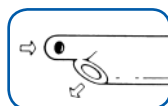


## Simcoe Irrigating-Aspirating Cannula

AE-7330

AE-7330S With sandblasted tip for polishing capsule

Overall length: 15 mm  
23 gauge irrigation with angled front opening,  
25 gauge aspirating cannula  
with 0.30 mm port, irrigation on the needle hub,  
aspiration on the tubing hub, supplied with silicone tubing



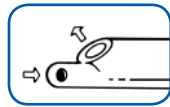
AE-7332 Silicone tubing (12 inches) For irrigation/aspiration cannulas

## Simcoe (Reverse) Irrigating-Aspirating Cannula AE-7330R

**AE-7330RS** With sandblasted tip for polishing posterior capsule

Overall length: 75 mm

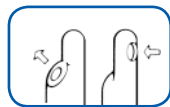
23 gauge irrigation with angled front opening, 23 gauge aspirating cannula with 0.30 mm port, irrigation on the tubing hub and aspiration on the needle hub, supplied with silicone tubing



## Swiss Irrigating-Aspirating Cannula - AE-7331

Overall length: 15 mm

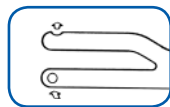
23 gauge thin wall irrigation with angled front opening, 23 gauge aspirating cannula with 0.30 mm port on left side of aspirating tube, irrigation on the needle hub, aspiration on the tubing hub, supplied with silicone tubing



## Pannu Viscoelastic Aspirating Cannula - AE-7340

Overall length: 35 mm

22 gauge irrigation with 0.50 mm side port and 23 gauge aspiration with 0.50 mm top port. Smooth, blunt, closed tip, Designed to be used in between sutures for removal of viscoelastic materials



## Mcintyre Inner Cannula

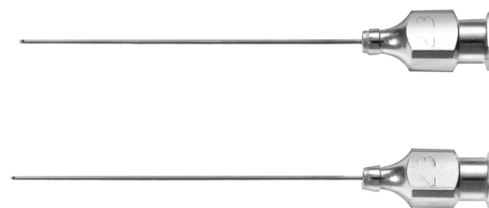
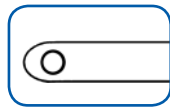
**AE-7370** 0.20 mm side port

Overall length: 46 mm

**AE-7371** 0.30 mm side port

Overall length: 56 mm

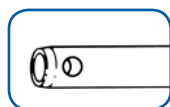
23 gauge



## Mcintyre Truncated Outer Cannula - AE-7375

Overall length: 17.0 mm

19 gauge, side ports



# CANNULAS

## Irrigating-Aspirating Handpiece

**AE-7380** Original

Overall length: 115 mm

**AE-7381** With finger cut-off hole

Overall length: 120 mm

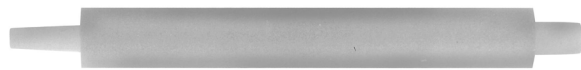
To be used with irrigation or aspiration cannula



## Mcintyre Infusion Handle - AE-7385

Overall length: 77 mm

Autoclaveable plastic



## ASICO Male/Female Handpiece - AE-7386

Overall length: 75 mm

Autoclaveable plastic



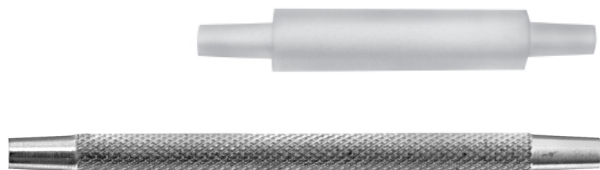
## ASICO Double Male Adaptor

**AE-7389** Teflon®

Overall length: 50 mm

**AE-7390** StainlessSteel

Overall length: 75 mm



## Anis Cortex Aspirating Cannula

**AE-7401** 23 gauge, straight

**AE-7402** 23 gauge, angled

**AE-7403** 23 gauge, angled  
(without sandblasted tip)

Overall length: 24 mm

With 0.40 mm side port, finely sandblasted tip



## Gills Cortex Extractor

**AE-7405**

Angle to tip: 5.0 mm

**AE-7407**

Angle to tip: 7.0 mm

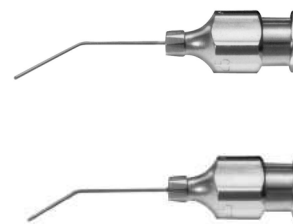
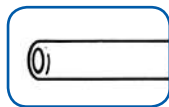
**AE-7408**

Angle to tip: 8.0 mm

**AE-7410**

Angle to tip: 10.0 mm

25 gauge, front opening





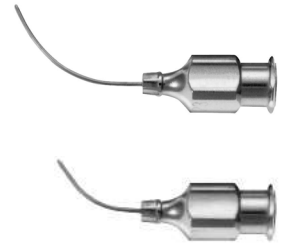
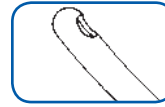
# CANNULAS

## Simcoe Cortex Extractor

**AE-7430** 23 gauge, 13 mm

**AE-7431** 23 gauge, 21 mm

0.30 mm port size, for sideport cortex removal



## Welsh Flat Olive Tip Cannula

**AE-7440** 25 gauge, straight

Overall length: 25 mm

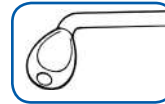
**AE-7441** 25 gauge, left

Overall length: 23 mm

**AE-7442** 25 gauge, right

Overall length: 23 mm

Port size: 0.25 mm



## Reshmi-Gills Flat Olive Tip Cannula

**AE-7445** 23 gauge, straight

Overall length: 25 mm

**AE-7446** 23 gauge, left

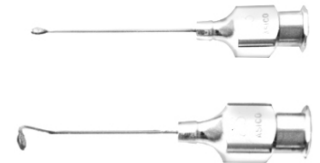
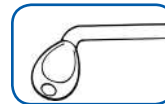
Overall length: 23 mm

**AE-7447** 23 gauge, right

Overall length: 23 mm

Port size: 0.30 mm

For irrigation or aspiration



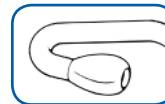
## Reshmi 12 O'Clock Cortex Removal Cannula

**AE-7448** 23 gauge, right

**AE-7449** 23 gauge, left

Overall length: 20 mm

Port size: 0.30 mm Tip width: 3.5 mm



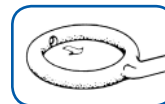
## Drews Posterior Capsule Polisher - AE-7500

25 gauge

Overall length: 22 mm

Tip diameter: 2.8 mm

Irrigating port facing in, sandblasted posterior surface, smooth anterior surface. Allows for excellent visibility during polishing



## Dietz ICL Slider/Irrigating Cannula – AE-7501

25 Gauge  
Overall Length: 33 mm  
Tip Width: 0.75 mm

Used for sliding the haptic under the iris and for irrigating the wound.



## Kraff- Lovisolo ICL® Viscoelastic Manipulator - AE-7502

25 gauge  
Overall length: 20 mm  
Angle to tip: 14.0 mm  
Angle: 60°

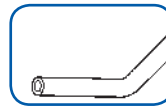


## Yamagishi Viscoanalostomy Cannula

**AE-7504** 27 gauge

**AE-7505** 30 gauge

Overall length: 22 mm  
For glaucoma procedure to control intraocular pressure



## Akahoshi Visco Dissection Cannula – AE-7506

27 Gauge  
Sandblasted tip. Used to inject visco between prechopped nucleus fragments to achieve complete separation from the posterior capsule.



## Graether Iris Retractor and Polisher

**AE-7510** 23 gauge, straight

**AE-7511** 23 gauge, curved

Overall length: 25 mm  
Capsule polisher side irrigation ports, sandblasted



# CANNULAS

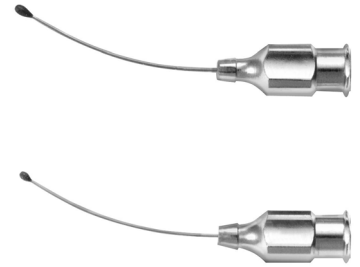
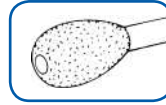
## Jensen Posterior Capsule Polisher

AE-7523 23 gauge

AE-7525 25 gauge

Overall length: 27 mm

Sandblasted tip, front opening,  
gently curved



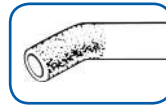
## Kratz Capsule Polisher - AE-7530S

23 gauge

Overall length: 21 mm

Port size: 0.30 mm

1.0 mm sandblasted tip, angled 30°

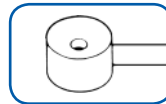


## Kraff Posterior Capsule Polishing Curette - AE-7532

25 gauge

Overall length: 21 mm

1.75 mm diameter cup, with semi  
sharp edge for effective polishing  
of posterior capsule, irrigating port  
in the center



## Modi Capsule Polisher – AE-7534

27 Gauge

Overall Length: 43 mm

Tip Diameter: 1.20 mm

Modi Capsule Polisher diameter of 1.2 mm. The rounded shape allows passage without snagging either with a hinged or a single plane incision. The polishing surface is smooth to avoid tearing the posterior capsule. The 27 gauge cannula is sturdy and easy to flush/clean. Fits through a 2.2 mm incision.



## Simcoe Posterior Capsule Polisher - AE-7535

23 gauge

Overall length: 13 mm

Port size: 0.30 mm

With reverse aperture



# CANNULAS

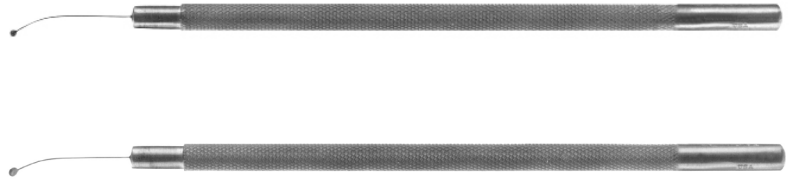


## Anis Scrubber

**AE-7540** Roughened ball shaped tip for capsular fornix



**AE-7541** Roughened disc shaped tip for capsule  
Gently curved, flexible shank



## Drews-Knolle Irrigating Vectis - AE-7600

23 gauge

Overall length: 38 mm

Thin wall, one outer port and two inner ports



## Anis Irrigating Vectis - AE-7610

23 gauge

Overall length: 41 mm

Heart shaped loop with two front openings to retract iris and capsular flap when irrigating



## Hoffman Irrigating Vectis - AE-7615

Overall length: 45 mm

16 gauge with 25 gauge thin wall, serrated loop

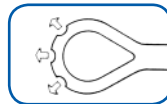


## Knolle- Pearce Irrigating Vectis - AE-7620

23 gauge

Overall length: 35 mm

Thin-wall, three outer ports at 10, 12, and 2 o'clock



## Buratto Hydrodissection Cannula - AE-7621

25 gauge

Overall length: 24 mm

Bent tip to go under the rhexis to reach the nucleus equator, to allow fluid injection in the right position for the best separation of nucleus from capsule. Bent end helps rotate the nucleus after hydrodissection to check nuclear mobility inside the bag



## Nagahara Hydrodissection Cannula II – AE-7622A

27 Gauge  
 Overall Length: 41 mm  
 Tip Length: 23 mm  
 Tip Angle: 35°

Cannula features a flat and angled tip for easy access under the anterior capsule flap. Flat tip facilitates the dispersion of BSS allowing for effective hydrodissection, angled tip allows for effective hydrodissection of the superior pole.



## Lewicky Hydrodissection Cannula

**AE-7624** 27 gauge, right

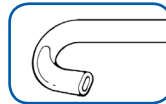
**AE-7625** 27 gauge, left

Overall length: 18.5 mm

Tip width: 2.5 mm

Designed for hydrodissection and 12o'clock cortex removal.

The posterior angle of the tip along with extra length assures flush and cleavage of the cortex from the capsule where it is needed most



## Nucleus Hydrodissection Cannula

**AE-7626** 27 gauge, angled

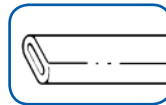
**AE-7629** 25 gauge, angled

Overall length: 22 mm

Angle to tip: 8.0 mm

Angle: 35°

Flat tip for effective hydrodissection



## Kellan Hydrodissection Cannula - AE-7627

25 gauge, curved

Overall length: 20 mm

Vertical flattened tip



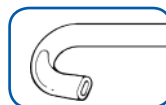
## J-Shaped Hydrodissection Cannula - AE-7628

25 gauge

Overall length: 18 mm

Tip width: 2.5 mm

Flat tip for superior pole dissection



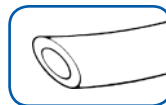
## Kellan Hydrodelineation Cannula - AE-7630

25 gauge

Overall length: 20 mm

Curved bevel tip, sharp on top,

smooth on bottom. For effective hydrodelineation and protection of the posterior capsule



# CANNULAS

## Oki-Yoshitomi Hydrodissection Cannula

**AE-7631** 27 Gauge, Straight

**AE-7632** 31 gauge - 15 degree

**AE-7633** 31 gauge - 30 degree

**AE-7634** 27 Gauge, 45° Tip Angle

**AE-7646** 15 degree, 23 gauge

**AE-7647** 30 degree, 23 gauge.

**AE-7648** 45 degree, 23 gauge



The unique shaped tip of the cannula makes a precise and exact penetration between the capsule and epinucleus. It can make a complete hydrodissection easily.

## Akahoshi Hydrodissection Cannula - AE-7635

27 Gauge

Overall Length: 39 mm

Tip Length: 21 mm

Facilitates hydrodissection. Unique tip design can be easily inserted beneath the capsulorrhexis edge.



## Akahoshi Hydrodissection Cannula II – AE-7636

27 Gauge

Overall Length: 39 mm

Tip Length: 21 mm

Facilitates hydrodissection. Beveled tip can be easily inserted beneath the capsulorrhexis edge. Tapered design increases the intraocular pressure for sealing the wound easily.



Disposable Version (10 per box) - **AS-7636**

## Inamura Hydrodissection Cannula – AE-7637

23 gauge,

45 degree 1mm tip,

Length of hub to tip: 39mm.

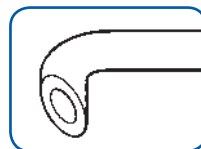


## Chang Hydrodissection Cannula – AE-7638

27 Gauge

Tip Length: 18 mm

The right angle facilitates placement beneath the sub-incisional capsulorrhexis edge to preferentially loosen the subincisional cortex. The tip is short enough to flip around to hydrodissect in new areas and is flattened to produce a fan-like jet. Tip has a dull point to engage and spin the peripheral nuclear surface with a circular raking motion to confirm adequate nuclear mobility.



# CANNULAS

## Inamura Hydrodissection Cannula – AE-7639

25 Gauge

Overall Length: 39 mm

Slight bend at tip to reach around for efficient hydrodissection.

Tip is flat compared to round tip of Inamura II cannulas.



## Inamura II Hydrodissection Cannula

**AE-7642** 22 Gauge, 45° Angle of Flow

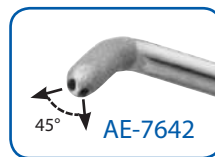
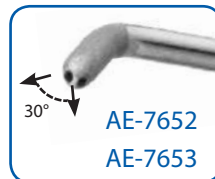
**AE-7652** 22 Gauge, 30° Angle of Flow

**AE-7653** 25 Gauge, 30° Angle of Flow

Overall Length: 40 mm

Tip Length: 1.0 mm

Dual ports provide angled flow for efficient hydrodissection on either side of the capsule. Sandblasted tip increases control in the presence of visco especially in cases where the nucleus is rotated inside the capsular bag.



## Miyoshi Ultimate 120° Hydrodissection Cannula

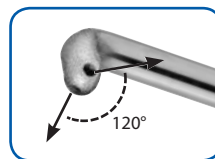
**AE-7643** 23 Gauge

**AE-7649** 25 Gauge

Overall Length: 40 mm

Angle of Flow: 120°

Dual ports provide angled flow for complete hydrodissection in both the anterior and posterior capsule simultaneously. Sandblasted tip increases control in the presence of visco especially in cases where the nuclei is rotated inside the capsular bag.



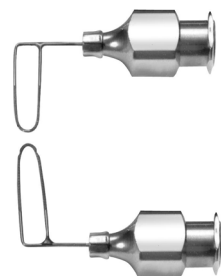
## Simcoe Nucleus Delivery Cannula

**AE-7650** Right

**AE-7651** Left

Overall length: 13 mm

25 gauge thin-wall, 2 irrigating ports, serrations on lens loop for effective removal of the nucleus



## Slade Femtosecond Cannula – AE-7654

23 Gauge

Overall Length: 24 mm

Helps to release the gas bubble trapped beneath the nucleus during emulsification. Creates a more efficient Hydrodissection for the Femtosecond laser procedure.



# CANNULAS

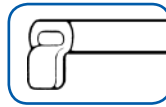
## Thurmond Nucleus Irrigating Cannula & Iris Retractor

AE-7658 18 gauge

AE-7659 19 gauge

Overall length: 24 mm

Front opening, smooth downward curved lip



## "Tire Tool" Cannula - AE-7660

25 gauge

Overall length: 19 mm

Two 0.20 mm irrigating ports inside the curve, for nucleus delivery

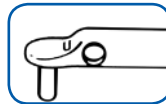


## Kuglen Irrigating Lens Manipulator - AE-7710

25 gauge, straight

Overall length: 24 mm

With 0.20 mm diameter peg



## Anis-Kuglen Irrigating Lens Manipulator - AE-7720

25 gauge

Overall length: 23 mm

0.20 mm diameter peg

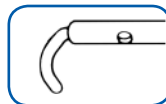


## Osher Irrigating Lens Manipulator - AE-7725

25 gauge

Overall length: 21 mm

25 gauge with side port and pigtail tip

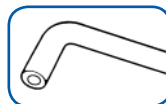


## Youens Irrigating Lens Manipulator - AE-7735

30 gauge

Overall length: 15 mm

Angled, front opening, 0.30 mm diameter



## Akahoshi Multi-Use Manipulator Cannula - AE-7736

Overall Length: 35 mm

Can be used through the side port as a nucleus sustainer to prechop the nucleus in the counter prechop technique or through the bent cannula, OVD can be injected into the space between the posterior capsule and the nucleus to perform a new surgical procedure called "visco-dissection."





# CANNULAS

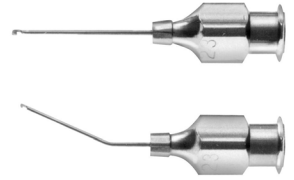
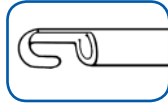
## Mcintyre Irrigating Iris Hook

AE-7750 23 gauge, straight

AE-7751 23 gauge, angled

Overall length: 18 mm

Smooth blunt tip



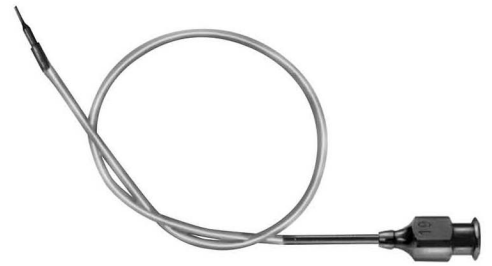
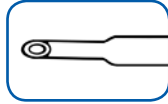
## Heslin Infusion Cannula

AE-7800 25 gauge

AE-7801 23 gauge

Tip length: 9 mm

Anterior chamber maintainer



## Kobayashi DSAEK Chamber Maintainer – AE-7802

25 Gauge

Designed for DSAEK and can also be used for various procedures to maintain the AC.



## Tan DALK Cannula – AE-7803

27 Gauge

Overall Length: 50 mm

Used to create an ideal big bubble when attached to a 5 mm air-filled syringe.



## Kobayashi DSAEK Donor Adjustor, Curved – AE-7806

30 Gauge

Overall Length: 31 mm

Curved shaft for easier access to roof while centering the donor button.



# CANNULAS

## Sarnicola DALK Cannula – AE-7821

27 Gauge  
Overall Length: 34 mm  
Tip Length: 9 mm

Designed so the air insufflates from top to bottom in a very deep plane and increases the percentage of Big Bubble formation.



## John ALK Cannula

**AE-7822** 1-Port

**AE-7824** 3-Ports

27 Gauge  
Overall Length: 34 mm  
Tip Length: 9 mm

Helps to create a big bubble within the recipient cornea and for air dissection of the corneal stroma. The 1-port cannula will help in the formation of a raised, focal big-bubble, while the 3-port cannula will facilitate a more diffused big-bubble DM separation.



AE-7822



AE-7824



## John ALK Probe – AE-7823

30 Gauge  
Overall Length: 34 mm  
Tip Length: 9 mm

Helps to create an intra-corneal tunnel within the recipient corneal stroma.



## Packa Back Flush Needle

**AE-7900** 19 gauge, blunt (not shown)

**AE-7901** 20 gauge, blunt

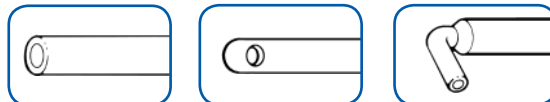
**AE-7902** 20 gauge, side opening 0.5 mm

**AE-7903** 20 gauge tapered to 25 gauge

**AE-7905** 20 gauge with 25 gauge tip, subretinal fluid drainage needle

Overall length: 30 mm

Designed to be used with back flush handle (AE-7930 and AE-7931)



# CANNULAS

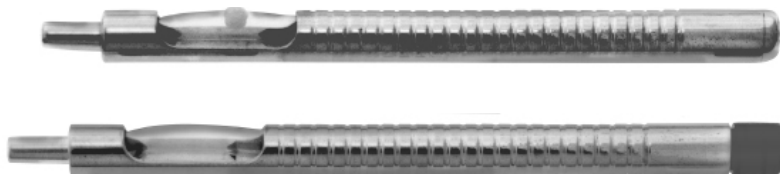
## Packo Back Flush Handle

**AE-7930** Manual with control hole

**AE-7930S** Silicone tubing  
5/package

**AE-7931** For use with Vitrectomy Console

**AE-7931S** Silicone tubing  
5/package



## Scleral Plugs

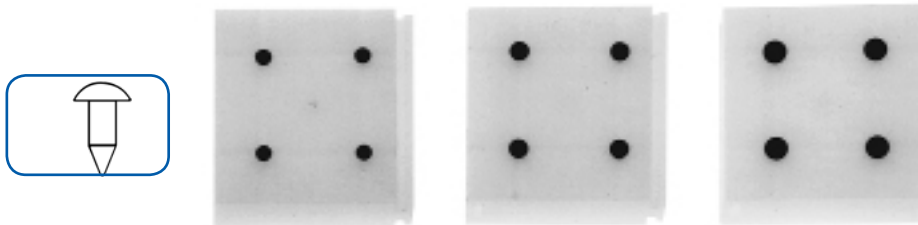
**AE-7950** 18 gauge, black

**AE-7951** 19 gauge, red

**AE-7952** 20 gauge, gold  
4/package

**AE-7953**

Set of 12 plugs, 4 each of  
18, 19, and 20 gauge



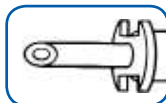
## Infusion Cannula

**AE-7960** 2.5 mm

**AE-7961** 4.0 mm

**AE-7962** 6.0 mm

Infuses through the pars plana for  
retinal surgery



## Weiss-Benslimane Lipostructure Triple Port Micro Cannulas

**AE-7970** 20G Single Port Micro Transfer Cannula

**AE-7976** 18G 60 mm

**AE-7977** 18G 80 mm

**AE-7978** 18G 100 mm

**AE-7979** 18G 140 mm



Blunt tip for safe entry. Oval ports facilitate efficient aspiration. Three ports specially positioned to prevent blockage during harvesting. Luer lock end affixes securely to the syringe.

# AE7 - 0000 SERIES

Description	Page
Cleaning I/A hand piece	160
ASICO I/A Hand Piece	160
I/A Tips	160
Inter Tip Flush Kit	161
Bi-Manual Irrigation Hand Piece	161-162
Duo Max I/A Handle and Tips	163
Mini & Ball I/A tips	164

## ASICO SINGLE USE CANNULAS (Disposable) CE 0086

All ASICO disposable cannulas are gamma sterilized and double sterile packed to minimize set up time and ensure sterility. All cannulas are sold in a box of 10.

## ASICO SINGLE USE BLADES (Disposable) CE 0044

All single use blades are gamma sterilized and double sterile packed to minimize set up time and ensure sterility. All blades are sold in a box of six (except AS-8203H and AS-8205H which are sold in a box of 10). Handles of disposable blades are 102mm in length.

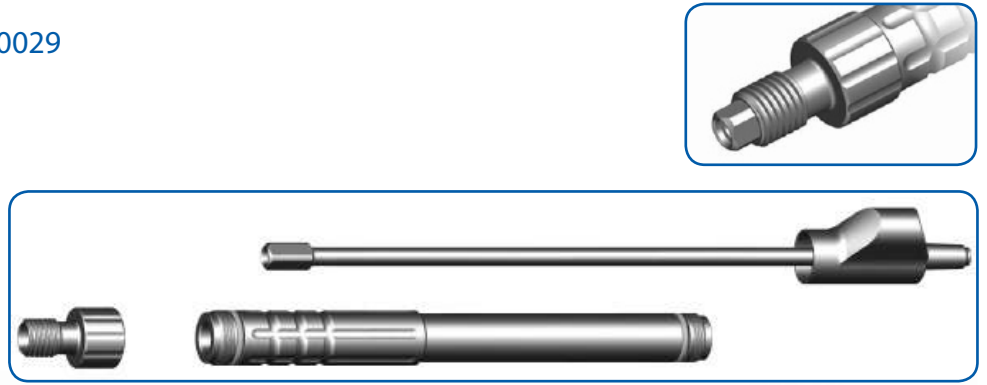
Gauge	ID* (inch)	ID*(mm)	OD** (inch)	OD** (mm)
19g	.028	.70	.043	1.10
20g	.024	.60	.036	.90
21g	.020	.51	.032	.80
22g	.016	.41	.028	.70
23g	.013	.33	.025	.60
24g	.012	.30	.022	.55
25g	.010	.25	.020	.50
26g	.010	.25	.018	.45
27g	.008	.20	.016	.40
28g	.007	.18	.014	.36
29g	.007	.18	.013	.33
30g	.006	.15	.012	.30

# CLEANING I/A HANDPIECE, BIMANUAL I/A HANDPIECES

## ASICO Cleaning I/A Hand Piece – AE7-0029

Overall Length: 124mm

For TASS management; completely disassembles for a thorough cleaning. Its complete cleaning capability helps to avoid possible contamination. Compatible to all popular phaco consoles. Fits multiple sleeves. All titanium. Universal threading allows one to use this handle with various threaded I/A tips.



For all bimanual hand pieces, tips are laser-welded for durability during sterilization.

## ASICO I/A Handpiece - AE7-0030

Overall length: 110mm



## Straight Tip AE7-0031

Port size: 0.30mm



## Curved Tip AE7-0032

Port size: 0.30mm



## Angled Tip 45° AE7-0033

Port size: 0.30mm



## Angled Tip 90° AE7-0034

Port size: 0.30mm



## Luer Adaptor Tip AE7-0038

To be used with cannula



# BIMANUAL I/A HANDPEICE

## Inter-Tip Flush Kit AE7-0068

5/package

## Replacement "O" Rings AE7-0061

(Not Shown)



## Buratto

Bi-Manual Irrigation Handpiece

**AE7-0105** 21 gauge, straight

Port size: 0.5mm

**AE7-0106** 21 gauge, curved

Port size: 0.5mm

**AE7-0108** 23 gauge, curved

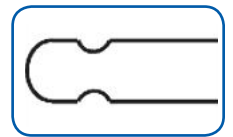
Port size 0.4mm

Overall length: 110mm

Dual port: blue color for easy identification. Maintains chamber better than conventional IIA handpiece.

Ideal for scleral and clear corneal incision.

Autoclavable handpiece fitson to male port of tubing



## Bimanual Irrigating Hand Piece – AE7-0110

22 Gauge

Overall Length: 132mm

Front opening provides maximum flow for better AC maintenance.



# BIMANUAL I/A HANDPEICE

## Buratto Bi-Manual Aspiration Handpiece

**AE7-0115** 21 gauge, straight

**AE7-0116** 21 gauge, curved

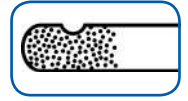
**AE7-0117** 23 gauge, straight

**AE7-0118** 23 gauge, curved with capsule polisher

Overall length: 110mm

Port size: 0.3mm

Amber colored for easy identification. Maintains chamber better than conventional I/A handpiece. Ideal for scleral and clear corneal incision. Autoclavable handpiece fits on to female port of tubing



With capsule polisher

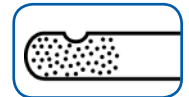
## Neuhann Bi-manual Aspiration Handpie - AE7-0119

23 gauge, curved

Overall length: 770mm

Port size: 0.3mm

Amber colored for easy identification. Maintains chamber better than conventional I/A handpiece. Ideal for scleral and clear corneal incision. Autoclavable handpiece fits on to female port of tubing. Lightly sandblasted tip



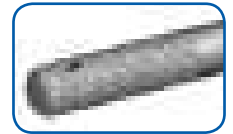
Light Sandblasting

## Bimanual Aspirating Hand Piece – AE7-0120

22 Gauge

Overall Length: 132mm

Curved tip with a sandblasted capsule polisher.



## Bimanual Micro Irrigating Hand Piece

**AE7-0207** Straight tip

**AE7-0208** Curved tip

23 Gauge

Bimanual micro irrigating handpiece with 0.4mm dual oval ports.



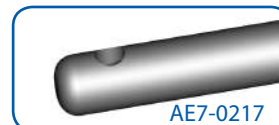
## Bimanual Micro Aspirating Hand Piece

**AE7-0217** Without capsule polisher

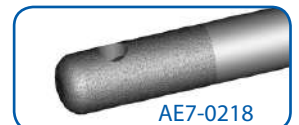
**AE7-0218** With capsule polisher

23 Gauge

Bimanual micro aspirating handpiece with 0.3mm dual round ports. Curved Tip.



AE7-0217



AE7-0218



Titanium ergonomic handles for optimum comfort and strength.  
Maximum irrigation flow for better anterior chamber maintenance.

# DUO MAX I/A HANDLE AND TIPS

Titanium ergonomic handles for optimum comfort and strength.  
Maximum irrigation flow for better anterior chamber maintenance.

## Duo Max Irrigating Handle – AE7-3000

Overall Length: 112mm  
Diameter of Handle: 8mm  
Blue irrigation handle for interchangeable tips.



## Duo Max Aspirating Handle – AE7-3010

Overall Length: 112mm  
Diameter of Handle: 8mm  
Yellow aspiration handle for interchangeable tips.



## Irrigating tips for Duo Max irrigating handle

### Duo Max Nagahara Irrigating Chopper Tip – AE7-3020F

20 Gauge  
Overall Length: 29mm  
60° Chopper  
Duo Max Nagahara chopper tip, 60° cutting edge, with front opening port for irrigation.  
Green coated tip.



### Duo Max Tsuneoka Irrigating Chopper Tip – AE7-3028F

20 Gauge  
Overall Length: 29mm  
Duo Max Tsuneoka chopper tip with front opening port for irrigation. Magenta coated tip.  
Also available side opening [AE7-3028](#)



### Duo Max Tsuneoka Irrigating Chopper Tip, with bottom hole – AE7-3028FB

20 Gauge  
Overall Length: 29mm  
Duo Max Tsuneoka chopper tip with front and back opening port for irrigation. Top view same as that of AE7-3028F. Magenta coated tip.



### Duo Max Irrigating Tip – AE7-3030

20 Gauge  
Overall Length: 28mm  
Large dual oval ports at the distal end for maximum irrigation, side port configuration avoids pushing away the nucleus being chopped. Blue coated tip.



## Aspirating tips for Duo Max aspirating handle

### Duo Max Aspirating Tip – AE7-3032

20 Gauge  
Overall Length: 28mm  
Aspirating 0.3mm port located at the distal end for effective aspiration of the nucleus.  
Gold coated tip.



### Duo Max Aspirating Tip w/Capsule Polisher – AE7-3034

20 Gauge  
Overall Length: 28mm  
Aspirating 0.3mm port located at the distal end for effective aspiration of the nucleus. Features a capsule polisher. Gold coated tip.





# MINI & BALL IRRIGATING/ASPIRATING TIPS

## Akahoshi Mini Sandblasted I/A Tip

I/A tip specially designed to allow for increased maneuverability within a small incision. Oval port of 0.3mm x 0.2mm allows for improved flow and better occlusion of the cortical material in order to remove it more efficiently at higher vacuum pressures. Sandblasted for capsule polishing. Available in 22 or 20 gauge for straight and bent models, 22 gauge for s-curve model.



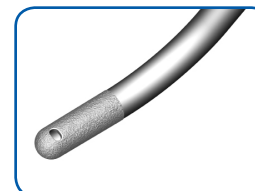
Straight, 22 Gauge:  
**AE7-3050**

Straight, 20 Gauge:  
**AE7-4050**



Bent, 22 Gauge:  
**AE7-3051**

Bent, 20 Gauge:  
**AE7-4051**



S-Curve, 22 Gauge:  
**AE7-3052**

## Akahoshi Ball I/A Tip

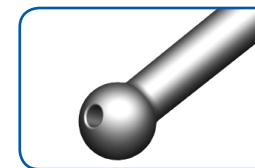
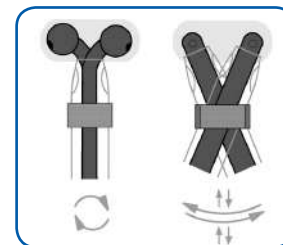
22 Gauge. Features a 1.1mm ball tip that has been mirror polished for effective cortex management that is atraumatic to the capsular bag. Port is at a 45° angle so that tip approaches the posterior capsule at 90°. Available with or without sandblasting.

Approaches posterior capsule at 90° for better occlusion

Design prevents stretching of the incision



'S' at end of item number indicates sandblasting



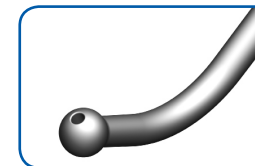
Straight, Polished:  
**AE7-3060**

Straight, Sandblasted:  
**AE7-3060S**



Bent, Polished:  
**AE7-3061**

Bent, Sandblasted:  
**AE7-3061S**



S-Curve, Polished:  
**AE7-3062**

S-Curve, Sandblasted:  
**AE7-3062S**

# AE - 8000 & AE - 9000 SERIES

Description	Page
Blade Handle	166
Scleral Trephine	166
Corneoscleral Punch	166
Endocapsular Punch	167
Corneal Trephine	168
Side Port Diamond knives	169
LRI Diamond Knives	169-171
ASICO Free Hand Diamond Knives with Inter-changeable Blades	172
Multi-Angled Diamond Knife	173
Clear Corneal Diamond Knives	174
Pathfinder Clear Corneal Diamond Knives	175
ClearPath Clear Corneal Diamond Knives	176
Multi-Incision Diamond Knives	177
Dual-Micrometer Knife	178
ZAP Diamond Knife	179
TEE Diamond Knife	180
Royale Injectors	181

# CHUCK HANDLE/ DIAMOND KNIVES

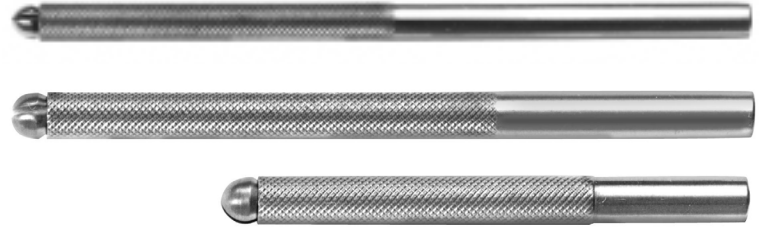
## Chuck Handle

**AE-8000** Hexagon, 10.0cm

**AE-8001** Round, 10.0cm

**AE-8002** Round, 7.5cm

**AE-8003** Round, 5.0cm



## Kellan Blade Collet - AE-8005

To be used with Kellan blades or any thin profile blade



## Elliot Scleral Trephine

**AE-8250** Handle

**AE-8251** 1.0mm diameter

**AE-8252** 1.5mm diameter

**AE-8253** 2.0mm diameter with handle and 1.0mm, 1.5mm, and 2.0mm trephines



## Kelly Descemet's Membrane Punch - AE-8302

Overall length: 132mm

Tip diameter: 1.0mm



## Kitahara Rotatable Glaucoma Punch - AE-8304

Tip Dimensions: 1.0mm x 1.0mm

360° rotatable tip can be moved to any position.

Square shaped tip.



## Memmen Corneoscleral Punch - AE-8305

Overall length: 85mm  
Tip diameter: 2.0mm  
Rotatable for easy positioning



## Akahoshi Phaco Sleeve Punch – AE-8307

Tip Diameter: 1.4mm  
Designed to make a third port in the Phaco sleeve to increase irrigation.  
Recommended position of the third port is at the bottom of the sleeve. This helps push the posterior capsule away from the tip and keep the anterior chamber deep. The port is created after the Phaco sleeve is placed over the Phaco handpiece.



## Akahoshi Micro Phaco Sleeve Punch - AE-8308



## Koch Endocapsular Punch

**AE-8309** 4.5mm ID  
Overall length: 112mm

**AE-8310** 5.5mm ID  
Overall length: 120mm  
Forcutting anterior capsule

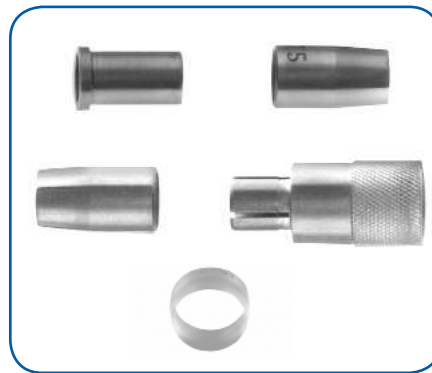


# DIAMOND KNIVES

## Corneal Trephine Blades, Handles, and Cross Hair Markers

Size (mm)	Blade	Pannu Cross Hair Marker	Handle
6.0	AE-8200		AE-8200H
6.5	AE-8201		AE-8201 H
6.7	AE-8202		AE-8202H
7.0	AE-8203		AE-8203H
7.2	AE-8204		AE-8204H
7.5	AE-8205	AE-8205C	AE-8205H
7.7	AE-8206	AE-8206C	AE-8206H
8.0	AE-8207	AE-8207C	AE-8207H
8.2	AE-8208	AE-8208C	AE-8208H
8.5	AE-8209	AE-8209C	AE-8209H
8.7	AE-8210		AE-8210H
9.0	AE-8211		AE-8211 H
9.5	AE-8212		AE-8212H
16.0	AE-8219		

ASICO's "see-through" handles are designed to fit the corresponding blade size precisely. Pannu CrossHair Markers are designed for better centering of the trephine over the patient's cornea and should be used only with the blades and not with the handle and blade combination. ASICO trephine blades are sold non-sterile for one time use. Trephine handles and cross hair markers are reusable.



AE-8219

# DIAMOND KNIVES/PUNCHES

## VRTIS™ Arumi Retinal Diamond Knife – AE-8090

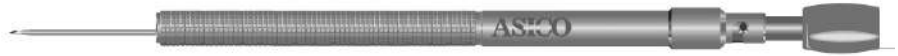
Overall Length: 186mm

Blade Length: 6mm

Blade Width at Shoulder: 0.35mm

Blade Width at Base: 0.7mm

Diamond knife designed to cut in sutureless, microvascular surgery including embolectomy, radial optic neurotomy, adventitious sheathotomy and proliferative diabetic retinopathy. All-titanium handle.



## Akahoshi Sideport II Diamond Knife – AE-8104

Blade Width at Shoulder: 0.6mm

Blade Width at Base: 1.0mm

As the blade has a trapezoid design, the side port size can be controlled according to the depth of the blade insertion. All-titanium handle.



## Micro Crescent Diamond Knife – AE-8114

Blade Length: 1.2mm

Designed for all glaucoma procedures, Angled blade is ideal for dissecting the initial and second flap. Blade is 0.20mm thick and 2.0mm long.

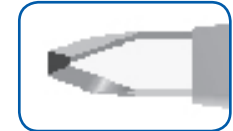


## Sideport Fixation Knife – AE-8121

Blade Width at Shoulder: 0.8mm

Blade Width at Base: 1.0mm

Small incisions avoid leakage from the paracentesis during Phaco. Flat edge, sharp leading tips and side cutting edges are ideal for making Paracentesis incision – without the use of fixation devices. Designed to make a reproducible incision of 0.8mm in a controlled manner. All-titanium handle.



## Koch Double Footplate LRI Diamond Knife - AE-8122

Depth Settings: 500, 550, and 600μ

Overall Length: 136mm

Trifacet blade for controlled entry while providing excellent visibility. Unique double-footplate ensures consistent wound architecture. Side-cutting edges for easy wound extension. All-titanium handle.



## ASICO Double Footplate LRI Diamond Knife - AE-8122A

Depth Settings: 450, 500, and 550μ

## Akahoshi Sub II Sideport Diamond Knife – AE-8131

Blade Width 0.6mm

Ideal for side port incision for the 2mm Micro-Coaxial Implantation Technique. Featuring a 45° angle designed to make a reproducible incision of 0.6mm in a controlled manner. All-titanium handle.



# PUNCHES

## Zaldivar LRI Diamond Knife – AE-8147S

Blade Depth: 0.6mm  
Blade Width: 1mm  
Preset length setting at 0.6mm (600 microns). Single footplate for optimal visualization. Trifacet flat tip for better control of the incision. Side cutting edges for clockwise or counter-clockwise direction.  
All-titanium handle.



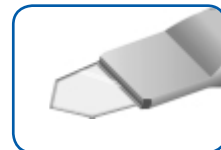
## ZAP Zaldivar Anterior Procedure II Diamond Knife – AE-8149

Blade Length: 4.5mm  
Tip Shoulder Width: .55mm  
Tip Base Width: 1mm  
10 Facet blade with side cutting edges. Flat Tip for controlled entry.  
All-titanium handle.



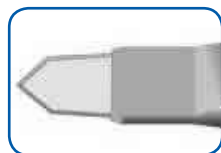
## Akahoshi Micro Diamond Knife – AE-8157

Tip Shoulder Width: 2.4mm  
Tip Base Width: 2.7mm  
Suitable for coaxial phaco with the minimum incision size of 2.4-2.7 mm. Trapezoidal design allows one to increase the incision size.  
All-titanium handle.



## Akahoshi Standard Diamond Knife – AE-8161

Tip Shoulder Width: 2.8mm  
Tip Base Width: 3.2mm  
Suitable for coaxial phaco with the minimum incision size of 2.8-3.2 mm. Trapezoidal design allows one to increase the incision size.  
All-titanium handle.



## 3-Step LRI Diamond Knife

**AE-8186** Depth Settings: 450, 500, and 550μ.

**AE-8187** Depth Settings: 500, 550, and 600μ.

Overall Length: 136mm  
Trifacet blade for controlled entry. Single-footplate for better visualization. Side-cutting edges for easy wound extension. All-titanium handle.

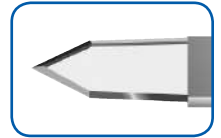


# BLADE HOLDER

## Akahoshi Ultra Diamond Knife – AE-8190

Shoulder Width: 2mm  
Tip Width at Base: 2.3mm

Ideal for 2mm Micro-Coaxial Implantation Techniques using Alcon's latest MicroSmooth™ Ultra Sleeve Technology. Trapezoidal blade of 2.0mm at the shoulder and 2.3mm at the base. Features side cutting edges and an all-titanium handle.



## Akahoshi Nano Diamond Knife – AE-8192

Shoulder Width: 1.7mm  
Tip Width at Base: 2mm

Ideal for sub-2mm Micro-Coaxial cataract procedures using Alcon's Nano Sleeve technology. Trapezoidal blade of 1.7mm at the shoulder and 2.0mm at the base. Features side-cutting edges and an all-titanium handle.



## Fukuyama LRI Diamond Knife – AE-8194

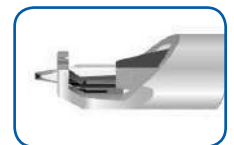
Blade Width: 1.0mm

The narrow width of the footplate prevents corneal epithelial detachments, permits arcuate incisions, and enables viewing of the operating field easily. The micrometer allows precise settings in increments of 100 microns (0.10mm). The retracting mechanism is useful for blade protection and depth setting memory. All-titanium handle.



## Fukuyama 3-Step LRI Diamond Knife – AE-8194A

Overall Length: 136mm  
Lancet blade with 3 preset depth settings of 450, 500, and 550 microns.  
Double-footplate for added stability. All-titanium handle.



## ASICO Dual Micrometer LRI Diamond Knife – AE-8196

Blade Width: 1.0mm

Features a 10 facet, 1.0mm blade with side cutting edges for clockwise and counter-wise directions. Specially designed footplate permits optimal visualization. Dual micrometer allows precise settings in increments of 0.01mm. Flat tip for controlled entry during incision. All-titanium handle.





# DIAMOND KNIVES

## ASICO FREEHAND DIAMOND KNIFE WITH INTERCHANGEABLE BLADES



The ASICO Free Hand Knife is designed to be extremely versatile. The ergonomically designed handle has two modes, "O" (Operating Mode) and "R" (Replace Mode). Each diamond is mounted in a shaft made of special alloy material. The surgeon has a choice of replacing the blade at any time for a different operating technique or if the blade is damaged due to an accident. When the handle is retracted all the way, the diamond blade is totally protected. The handle is all titanium and the knife is available in various configurations as shown below:

45° Angle

1.0 x 0.2 **AE-8100** Handle and Blade  
**AE-8101** Blade Only



Trifacet

1.5 x 0.3 **AE-8111** Handle and Blade



Double Lancet

1.5 x 0.3 **AE-8108** Blade Only



Phaco Lancet\*

3.0 x 0.2 **AE-8115** Handle and Blade  
**AE-8117** Blade Only

3.2 x 0.2 **AE-8116** Handle and Blade

\*Phaco Lancet blades cannot be used with other handles



# DIAMOND KNIVES

## MULTI-ANGLE DIAMOND KNIFE

U.S. Patent No. 5,431,671



The ASICO Multi-Angle Diamond Knife is extremely versatile - designed for no-stitch procedure and clear corneal sutureless incision. The patented diamond knife has four convenient angle settings that can be easily adjusted with its key to 30°, 60°, 90° and 180°. A locking mechanism secures each of the four angle position settings. The blade is fully retractable into the handle. The Multi-Angled handle is available for clear corneal incision, scleral incision, tunneling, entering the anterior chamber and extending the wound depending on the blade configuration. The patented handle is available with blade configurations shown below.



### Double Lancet

1.0mm width x 0.2mm thickness x 3.5mm length

**AE-8162** Double Lancet



### Phaco\*

3.0mm width x 0.2mm thickness x 4.0mm length

**AE-8164** Phaco Lancet

**AE-8165** Phaco Lancet with bevel on top



### Trifacet

1.0mm width x 0.2mm thickness x 3.5mm length

**AE-8160** Trifacet

# DIAMOND KNIVES

## CLEAR CORNEAL DIAMOND KNIVES - LASER PRECISE

ASICO Clear Corneal Diamond Knives feature the Laser Precise line at 1.75mm from the tip...for precise corneal valve incision

### UNICAT CLEAR CORNEAL DIAMOND KNIVES

Handle features preset depth settings for initial groove, entry into anterior chamber, and astigmatic correction. Length settings at 0.25mm, 0.30mm, 0.38mm, 0.50mm, 0.55mm, 0.60mm, and 6.0mm.



### FIXED ANGLE CLEAR CORNEAL DIAMOND KNIVES

30° angulated handle offers the convenience of a permanent angle setting for superior or temporal incision. Features a thin mounting.



### MULTI-ANGLE CLEAR CORNEAL DIAMOND KNIVES

Multi-angle handle offers the convertability of a straight knife to an angled knife of 30°, 60°, or 90°



Width (mm)	UNICAT	MULTI-ANGLE	FIXED ANGLE
2.5	*	*	AE-8134
2.8	*	AE-8172	AE-8135
3.0	AE-8124	AE-8170	AE-8136
3.2	AE-8125	AE-8171	*
2.5/2.8	*	*	AE-8137
2.8/3.1	AE-8126	*	*
3.0/3.3	*	*	AE-8139
3.2/3.5	*	AE-8177	*

# DIAMOND KNIVES



Patent Issued

## A ONE-PASS CLEAR CORNEAL DIAMOND KNIFE

Designed by Lee Nordan, MD,

- » Pathfinder blade maximizes the surface area of the wound that is closed by the endothelium's pumping action in order to create a sealed corneal valve.
- » Pathfinder blade's leading edge bevels are specifically designed for a decisive entry through Descemet's membrane, during the "straight, single plane clear corneal approach".
- » Pathfinder's "Corneal Valve Designator" insures exact wound dimensions.
- » Pathfinder is ideal for clear cornea or corneoscleral approach.



**Pathfinder 250** Diamond Knife - **AE-8173**  
Angled Handle

**Pathfinder 320** Diamond Knife - **AE-8199**  
UNICAT Handle  
3.2mm blade

**Pathfinder 300** Diamond Knife - **AE-8198**  
UNICAT Handle  
3.0mm blade



Universal Pathfinder is specially developed to accommodate today's phaco tips and various types of IOs. Ideal for use with injector

Patent Issued

**Universal Pathfinder** Diamond Knife  
**AE-8145** Angled Handle  
**AE-8146** UNICAT Handle  
Trapezoidal shape, 2.5/3.2mm blade



# DIAMOND KNIVES



Patent Pending

## A SECOND GENERATION CLEAR CORNEAL DIAMOND KNIFE

Designed by LEE Nordan, M.D.

Clearpath features a thin leading edge with specially designed bevels for ease of entry with minimum pressure.

Clearpath blade maximizes the surface area of the wound that is closed by the endothelium's pumping action in order to create a sealed inner corneal valve.

Clearpath's "Corneal Valve Designator" insures exact wound dimensions.

Clearpath's design eliminates the need for hydration to achieve a self-sealing incision.

Clearpath is ideal for limbal cornea, corneoscleral, clear cornea, or scleral procedures.



### Clearpath Diamond Knife

#### AE-8158

2.5mm blade, angled handle

#### AE-8159

3mm blade, angled handle

#### AE-8195

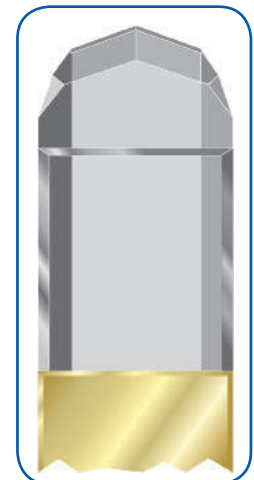
1.3 mm blade width. Straight Handle

### BENEFITS:

- "ICV" designator creates an inner corneal valve of consistent length prior to entry into the anterior chamber
- "Dimpling down" is eliminated when entering the anterior chamber, as the shelf on the blade automates this process
- Hydration of the wound is eliminated due to the I facet design of the blade

### Suggestions for Use

- Fill anterior chamber with viscoelastic prior to making incision
- Enter parallel to iris plan



# DIAMOND KNIVES

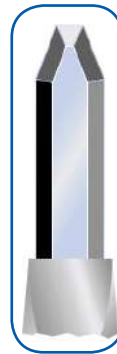
## MULTI-INCISION DIAMOND KNIVES

Designed by Manus Kraff, M.D.

1.0mm blade diamond knives feature the UNICAT handle with 7 preset length settings (0.25mm, 0.30mm, 0.38mm, 0.50mm, 0.55mm, 0.60mm, 6.0mm) for initial groove incision, sideport incision, anterior chamber entry, and astigmatic correction. Single footplate allows for better visualization of incision.



**UNICAT Double Lancet Blade - AE-8132**  
1.0mm blade. double lancet.  
with single footplate for better visualization



**UNICAT 10-Facet Blade - AE-8133**  
1.0 mm blade with 10-facets and side-cutting edges  
Blade features a flat tip and settings  
at 0.50mm, 0.55mm and 0.60mm.  
making it ideal for astigmatic correction  
such as corneal arcuate  
incisions or limbal relaxing incision.



The precise micrometer has seven preset settings. The setting represents the length of the diamond blade from the edge of the footplate to the tip of the diamond.

## UNICAT HANDLE SETTINGS

INCISION	BLADE SETTING	FOOTPLATE POSITION
Initial Groove	0.25, 0.30, 0.38mm	Vertical
Sideport	6.0mm	Horizontal*
Entry into Anterior Chamber	6.0mm	Horizontal*
Astigmatic Correction	0.50, 0.55, 0.60mm	Vertical

\* In horizontal position, footplate should be above diamond

# DIAMOND KNIVES

## The World's First Dual-Micrometer Knife for Corneal Refractive Surgery

U.S Patent No. 5,620,453



### Features






- The ASICO diamond knife features a dual micrometer scale. The first scale is for 0-0.50mm and the second is for 0.50-1.00mm settings. This extraordinary feature minimizes the possibility of error when setting the blade. The blade can be set to a maximum length of 2.00mm.
- The dual micrometer is calibrated in 50 increments of 0,01mm (10 microns) for precise setting. One full revolution of the dual micrometer thimble will advance the blade 0.50mm (500 microns).
- The ASICO diamond knife has a built-in memory device to retain the length setting even after the blade is retracted, provided the micrometer setting is not changed.
- To extend the blade to its pre-set memory setting, depress the plunger mechanism, without changing the micrometer setting.
- Unique footplate design permits full visualization of the blade when making the incision.
- The retracting mechanism allows the diamond blade to be protected between stages of the refractive procedure.
- All ASICO diamond knives come complete with a sterilization tray, to facilitate proper care and cleaning.



Unique Foot Plate Design



Dual Micrometer

CONFIGURATION	THICKNESS	CATALOG NO.
 FRONT CUTTING BLADE	200 microns (0.20mm)	AE-8180
 BACK CUTTING BLADE	200 microns (0.20mm)	AE-8185
 DUAL CONTROL BLADE	200 microns (0.20mm)	AE-8189
 THORNTON ARCUATE BLADE	200 microns (0.20mm)	AE-8191
 GRENE DOUBLE EDGE BLADE	100 microns (0.10mm)	AE-8193

### Setting the Diamond Knife

- Turn the micrometer so that the zero mark on the thimble lines up with the zero mark on the handle of the knife. The tip of the diamond is now even with the footplate.
- Set the blade to the desired length by turning the micrometer thimble. One full revolution of the dual micrometer thimble will advance the blade 0.50mm. If the desired setting is 0.50mm or less, refer to the first scale of the dual micrometer. If the desired setting is greater than 0.50mm and less than 1.00mm, refer to the second scale of the dual micrometer after the first revolution.
- The engraved numbers on the handle represent a guideline for the advancement of the blade.
- Once the blade is set to the desired length, push the plunger to expose the diamond blade.
- To retract the diamond blade into the handle, simply pull the plunger out to its furthest point.

# DIAMOND KNIVES

## ZAP DIAMOND KNIFE - ZALDIVAR ANTERIOR PROCEDURE

Designed by Roberto Zaldivar, M.D.

Zaldivar Anterior Procedure diamond knife is designed for anterior segment procedures including cataract (scleral and clear corneal incisions), trabeculotomy, implantation of implantable contact lens and other procedures.

Blade is of trapezoidal shape, 0,55mm wide at the tip, and 1,0mm wide at the base. Design of the blade eliminates the need for viscoelastic to create high ocular pressure for clear corneal procedures.



### ZAP Diamond Knife - AE-8148

Blade length: 5,5mm

Tip width: 0,55mm

Base width: 7,0mm

Trapezoidal shape

#### Cataract with ZAP:

- Initial Groove
- Paracentesis
- Inner Corneal Valve Incision
- Scleral Tunnel Incision
- Entry into Anterior Chamber
- Extension of Wound for IOL Implantation

#### Other Procedures:

- Implantation of Implantable Contact Lens
- Trabeculotomy

ZAP is the only knife specifically designed for scleral and clear corneal cataract procedures, implantation of ICL<sup>®</sup>, and other anterior segment procedures.

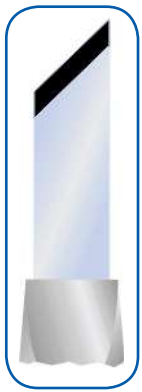




# DIAMOND KNIVES

## TEE DIAMOND KNIVES Titanium Economical Ergonomic

- TEE diamond knives feature all titanium handles and a special surface coating for durability. 6.0mm long blade allows for recutting and grinding in case repair is needed.
- Blade is fully encapsulated and mounted using a vacuum process for security
- Available with three blade configurations show below



**AE-8140**

1.0mm length x 0.2mm thickness  
45° Angle Blade



**AE-8142**

1.0mm length x 0.2mm thickness  
Double Lancet Blade



**AE-8144**

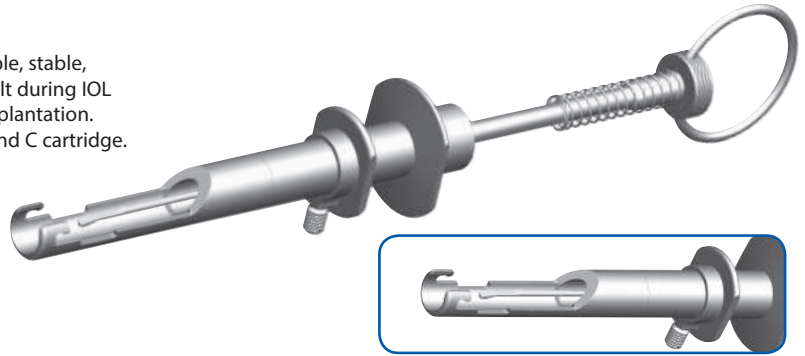
1.0mm length x 0.2mm thickness  
Trifacet Blade

## ASICO Royale III Injector – AE-9036SP

Overall Length: 151mm

Specifically designed plunger style instead of screw mechanism for simple, stable, and speedy single-handed injection. Spring absorbs undue resistance felt during IOL implantation. All titanium. Gold tip for increased visualization during implantation. Designed for Alcon Monarch® D cartridge and can also be used with B and C cartridge.

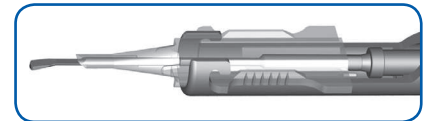
Monarch® is a registered trade mark of Alcon Labs



## ASICO Royale II Unihand Spring Injector – AE-9045SP

Overall Length: 151mm

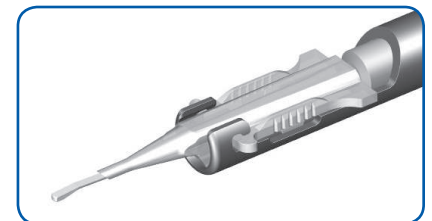
An alternative to the Alcon Monarch® II injector featuring a plunger mechanism. Designed for use with the Alcon Monarch® A, B and C cartridges. Specifically designed plunger style instead of screw mechanism for simple, stable, and speedy single-handed injection. Spring absorbs undue resistance felt during IOL implantation. Features an all titanium body and a gold tip for increased visualization during implantation. The Royale II Spring Injector is also a key instrument during the Micro Coaxial (2.2mm cataract surgery) Counter Traction Implant Technique. Counter force is provided by the Akahoshi Sustainer (AE-2530) at the side port incision while the IOL is implanted quickly through the main incision with the AE-9045SP. Loading forceps AE-4253 are recommended to set the lens into the cartridge prior to implantation.



## ASICO Royale III Cleaning Injector – AE-9063CSP

Overall Length: 171mm in completely extended position

For TASS management; completely disassembles for a thorough cleaning. Its complete cleaning capability helps to avoid possible contamination. Designed for the Alcon Monarch® C, and D cartridges. Specifically designed plunger style instead of screw mechanism for simple, stable, and speedy single-handed injection. Spring absorbs undue resistance felt during IOL implantation. Features an all titanium body and a gold tip for increased visualization during implantation.



Monarch® is a registered trade mark of Alcon Labs



# AS - 7000 & AS - 8000 Series

Description	Page
AS-7000 Single Use Cannulas	183-186
Air Injection Cannula	183
Peribulbar Needle	183
Cystotome	183
Irrigating Cannula	184
LASIK Cannula	184
Hydrodissection Cannula	185-186
Back Flush Needle	186
Disposable Injector System	187
Marking Pens	187
AS-8000 Single Use Blades	188

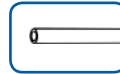
# SINGLE USE CANNULAS

## Air Injection (Rycroft) Cannula

AS-7000 30 gauge 3/4" (19.10mm)

AS-7001 27 gauge 3/4" (19.10mm)

AS-7001L 27 gauge 7/8" (22.20mm)



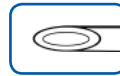
## Peribulbar Needle

AS-7067 25 gauge 5/8" (15.90mm)

AS-7068 25 gauge 7/8" (22.20mm)

AS-7069 23 gauge 1 1/4" (31.80mm)

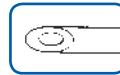
Single bevel for periorcular injections



## Atkinson Retrobulbar Needle

AS-7070 23 gauge 1 1/2" (38.10mm)

AS-7071 25 gauge 1 1/2" (38.10mm)



## Subtenon Needle - AS-7075

19 gauge

Overall length: 39mm

Flattened tip



## Kelman Cystotome - AS-7100

22 gauge, straight

Overall length: 19mm



## Irrigating Cystotome

AS-7152 25 gauge 7/8" (22.20 mm)

AS-7152S 25 gauge 5/8" (15.90 mm)

AS-7154 27 gauge 3/4" (19.10 mm)

AS-7154S 27 gauge 5/8" (15.90 mm)

Straight



## Irrigating Cystotome

AS-7153S 25 gauge 5/8" (15.90 mm)

AS-7155S 27 gauge 5/8" (15.90 mm)



# SINGLE USE CANNULAS

## Bishop- Harmon Irrigating Cannula - AS-7200

19 gauge  
Overall length: 32 mm  
Angle to tip: 7.0 mm



## J-Shaped Cannula

**AS-7208** 27 gauge  
Tip width: 1.5 mm

**AS-7209** 25 gauge  
Tip width: 1.75 mm  
Overall length: 18.0 mm  
For cortex removal at superior pole



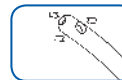
## Slade LASIK Irrigating Cannula - AS-7282

26 gauge  
Overall length: 38mm, Irrigation ports:1,  
Tip length: 20mm, 55 degree angle  
Spatulated tip for easy entry beneath the flap.  
Cross section permits sideways entry into the flap  
without dragging the epithelium into the interface



## Buratto LASIK Irrigating Cannula - AS-7284

25 gauge  
Overall length: 42mm, Irrigation ports:3,  
Tip length: 24mm, 45 degree angle.  
Easy entry under the flap, cross section permits sideways entry into the flap  
without dragging the epithelium into the interface



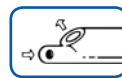
## Guell Lasik Cannula - AS-7288

25 gauge,  
Overall length: 42mm, Irrigation ports:7  
Designed for cleaning the interface while  
occupying a minimum amount of space under the flap



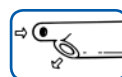
## Simcoe Irrigating-Aspirating Cannula - AS-7330

Overall length: 15 mm  
23 gauge irrigation with angle front  
opening, 23 gauge aspiration with  
0.3 mm port, Irrigation on the needle  
hub, aspiration on the tubing hub,  
supplied with tubing



## Simcoe Reverse Irrigating-Aspirating Cannula - AS-7330R

Overall length: 15 mm  
Same as AS-7330 but tubes reversed,  
irrigation on the tubing hub and  
aspiration on the needle hub, supplied  
with tubing



# SINGLE USE CANNULAS

## Simcoe Cortex Extractor

**AS-7430** 23 gauge, 13.0 mm

**AS-7431** 23 gauge, 21.0 mm

Curved, 0.3 mm port

Ideal for removing 12o'clock cortex from side port

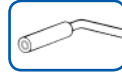


## Terry Capsule Polisher - AS-7539

27 gauge

Angle to tip: 7.0 mm

With silicone sleeve for polishing posterior capsule



## Nucleus Hydrodissection Cannula

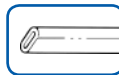
**AS-7626** 27 gauge

**AS-7629** 25 gauge

Overall length: 20.0 mm

Angle to tip: 8.00 mm

Angled, horizontal flow



## Kellan Hydrodissection Cannula - AS-7627

25 gauge

Overall length: 20.0 mm

Curved Vertical flow



## J-Shaped Hydrodissection Cannula - AS-7628

25 gauge

Overall length: 18.0 mm

Tip Width: 2.0 mm

For superior pole



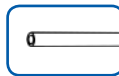
## Nucleus Hydrodissection Cannula - AS-7629

25 gauge, Angled

Overall length: 36mm,

Angle to tip: 8.00mm, Angle: 35 degrees

Flat tip for effective hydrodissection



## Kellan Hydrodelineation Cannula

**AS-7630** 25 gauge

**AS-7631** 27 gauge

Overall length: 20mm

Curved bevel tip, sharp on top, smooth on bottom for ease of insertion into nucleus and protection of posterior capsule



\* For use with black flush handle

# SINGLE USE CANNULAS

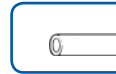
## Akahoshi Hydrodissection Cannula II - AS-7636

27 gauge cannula facilitates hydrodissection  
Overall length: 36mm  
Beveled tip can be easily inserted beneath the Capsulorrhexis edge. Tapered design easily increases the intraocular pressure for sealing the wound



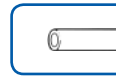
## Packo Back Flush Needle - AS-7900\*

19 gauge  
Overall length: 30mm  
Blunt



## Packo Back Flush Needle - AS-7901\*

20 gauge  
Overall length: 30mm  
Blunt



# SINGLE USE BLADES

## Disposable Regular Tip Marking Pen – AS-1583N

Comes with ruler.



AS-1583N

## Disposable Micro Tip Marking Pen - AS-1584N

Ruler printed on marker cap.



AS-1584N

## Disposable Injector System - AS-9300

Injector system can be purchased as a set. Individual cartridges and individual injectors are also available. Cartridge tips come in sizes 2.4mm and 2.7mm, with or without a 20° beveled tip. There is a unique coating on the injector tips for improved gliding ability when inserting the lens.



Disposable Spring Injector:  
AS-9300



# Introducing the sharpest blade for Micro Coaxial

Micro Coaxial is a registered trademark of Alcon Labs.



## Regular Handle

- 2.0mm AS-8312
- 2.2mm AS-8313
- 2.4mm AS-8315
- 2.5mm AS-8316
- 2.65mm AS-8318
- 2.8mm AS-8321
- 3.0mm AS-8324

## Safety Handle

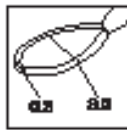
- 2.0mm AS-8312ASB
- 2.2mm AS-8313ASB
- 2.5mm AS-8316ASB
- 2.65mm AS-8318ASB
- 2.8mm AS-8321ASB
- 3.0mm AS-8324ASB

Angled Clear  
Corneal Blades  
6 Per Box

## Kellan Sutureless Incision Blade

AS-8010A 2.5mm Angled blade only

AS-8010AH 2.5mm Angled with handle 6/Box  
handle for AS-8010 & AS-8010A



3 Blades in One

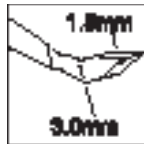
- 0.3mm marking for mandatory scleral depth
- 3.0mm line to gauge distance from anterior arcade vessels
- Ideal for extension of the wound for IOL implantation

## Kellan Clear Cornea Blade

AS-8011 3.2mm Straight blade only

AS-8011AH 3.2mm Angled blade with handle

AS-8012AH 3.0mm Angled blade with handle 6/Box



- 3.0mm long template to mark the cornea for the width of the wound
- 0.3mm laser line for the depth of the groove
- 7.5mm laser line for ideal corneal valve dimension

## Phaco Slit Blade

Angled with handle, bevel up

AS-8102AH 3.20mm  
6/Box



# Sterilization Trays

## Description

Sterilization Trays

## Page

190-191

Sterilization trays are made of a special thermoplastic which is designed for the autoclaving cycles. The tray can be used for ethylene oxide, steam, chemical, and heat sterilization procedures. The soft silicone mats protect the instruments during sterilization and storage. The cannula bars with luer lock fittings hold the cannulas firmly during the sterilization process. The delicate instrument holder protects fine tipped instruments. The see-through lids aid visualization when closing the lid, This ensures that the lid is not applying any potentially damaging pressure to the tips of the instruments.

# STERILIZATION TRAYS

## Diamond Knife Sterilization Tray – [AST21](#)

Dimensions: 2.5" x 6.0" x 0.75" (6.35cm x 15.24cm x 1.9cm)

Fits one diamond knife.

Lid Only – [AST21L](#)

CLOSED



OPEN



## Small Sterilization Tray – [AST21S](#)

Dimensions: 2.5" x 6.0" x 0.75" (6.35cm x 15.24cm x 1.9cm)

Fits 3 instruments  
Micro Tray - Base, Lid, & Mat

Mat Only – [AST21SM](#)

Lid Only – [AST21L](#)

CLOSED



OPEN



## Micro Instrument Sterilization Tray – [AST22](#)

Dimensions: 2.5" x 7.5" x 0.75" (6.35cm x 19.05cm x 1.9cm)

Fits up to two micro forceps or scissors.



CLOSED



OPEN



## Medium Sterilization Tray – [AST28](#)

Dimensions: 6.0" x 10.0" x 0.75" (15.24cm x 25.4cm x 1.9cm)

Fits 10-15 instruments.

Mat Only – [AST28M](#)

Lid Only – [AST28L](#)

CLOSED



OPEN



## Medium Double Level Sterilization Tray – [AST34](#)

Dimensions: 6.0" x 10.0" x 1.50" (15.24cm x 25.4cm x 3.82cm)

Fits 20-30 instruments.

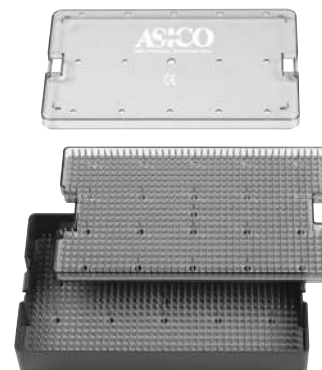
Mat Only – [AST28M](#)

Tray Insert – [AST34I](#)

CLOSED



OPEN



# STERILIZATION TRAYS

## Medium Deep Sterilization Tray – [AST35](#)

Dimensions: 6.0" x 10.0" x 1.5" (15.24cm x 25.4cm x 3.82cm)

Fits 10-15 instruments.

Mat Only – [AST28M](#)

CLOSED



OPEN



## Large Sterilization Tray – [AST54](#)

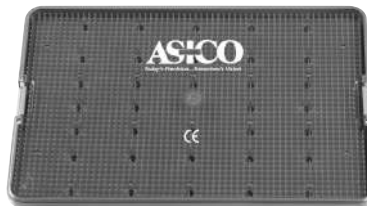
Dimensions: 10.0" x 15.0" x 0.75" (25.4cm x 38.1cm x 1.9cm)

Fits 25-30 instruments.

Lid Only – [AST54L](#)

Mat Only – [AST54M](#)

CLOSED



OPEN



## Large Double Level Sterilization Tray – [AST57](#)

Dimensions: 10.0" x 15.0" x 1.5" (25.4cm x 38.1cm x 3.82cm)

Fits 50-60 instruments

Large Tray - base, insert tray (double deck), lid and 2 mats

Lid Only – [AST57L](#)

Mat Only – [AST54M](#)

Insert Tray – [AST57IT](#)

Insert Tray Mat – [AST57ITM](#)

CLOSED



OPEN



## Large Deep Sterilization Tray – [AST58](#)

Dimensions: 10.0" x 15.0" x 1.5" (25.4cm x 38.1cm x 3.82cm)

Fits 25-30 instruments

Large Tray - Base (deep), Lid, & Mat

Lid Only – [AST57L](#)

CLOSED








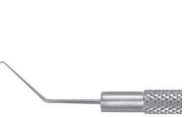








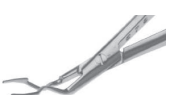
















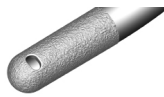






OPEN



# ASICO INSTRUMENT SETS

CATARACT PHACO SET	PAGE 193
CATARACT CLEAR CORNEAL SET	PAGE 194
MICRO COAXIAL SET	PAGE 195
FEMTOSECOND SET	PAGE 195
ECCE SET	PAGE 196
DALK SETS - TAN, JOHN, SARNICOLA	PAGE 197
DSAEK SET	PAGE 198
DMEK SET	PAGE 198
LRI SET	PAGE 199
TORIC SET	PAGE 199
GLAUCOMA SET	PAGE 200
PRK SET	PAGE 200
CORNEAL SET	PAGE 201
LID SET	PAGE 201
MUSCLE SET	PAGE 202
ICMS SET	PAGE 202
RETINAL SET	PAGE 203
ICL SET	PAGE 204
PHAKIC SET	PAGE 204
LASIK SET - PRIMARY, RETREATMENT, EMERGENCY	PAGE 205
OPTICIAN'S SET	PAGE 206
OFFICE/BASIC SET	PAGE 206

# Cataract Phaco Set

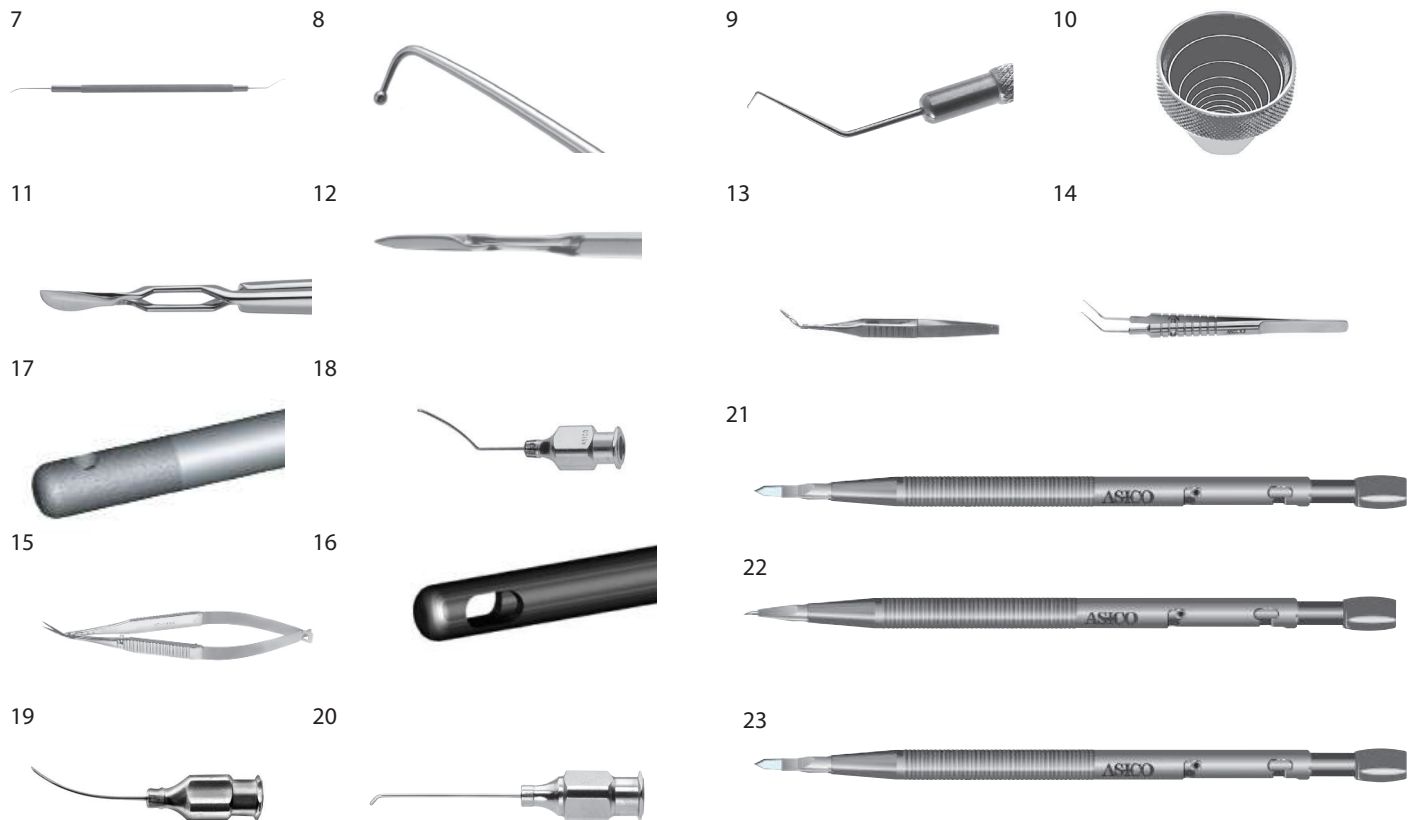
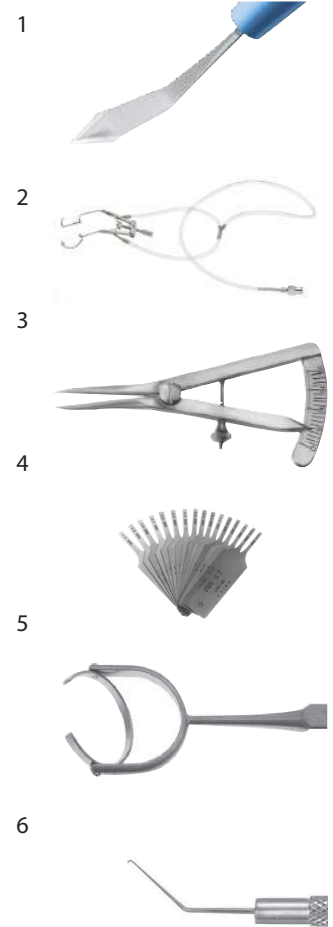
Instrument Type	Item Number	Reference/Options	1	2	3
1 Disposable Blade	ADVANCUT	S: p.58			
2 Speculum	AE-1021	C: p.12, 14-15--S: p.4-7			
3 Caliper	AE-1500	C: p.24-25, 27			
4 Iris Hook	AE-2150	C: p.34			
5 Fixation Device	AE-2198	C: p.34--S: p.10, 18	4 	5 	6 
6 Lens Manipulator	AE-2208	C: p.36-45--S: p.12-13, 15			
7 Nucleus Rotator	AE-2512	C: p.41-45--S: p.12-13, 15			
8 Phaco Chopper	AE-2517	C: p.43-45--S: p.13-17, 26	7 	8 	9 
9 Chopper + Spatula	AE-2520	C: p.43-45--S: p.13-17			
10 Keratometer	AE-2743	C: p.51			
11 Iris Forceps	AE-4011	C: p.68			
12 Tissue Forceps	AE-4101	C: p.71-72	10 	11 	12 
13 Dressing Forceps	AE-4102	C: p.72			
14 Lens Folder (Acrylic)	AE-4262AN	C: p.80-83	13 	14 	15 
15 Lens Implantation (Silicone)	AE-4267	C: p.83-84			
16 Suturing Forceps	AE-4300	C: p.86-87			
17 Tying Forceps	AE-4374	C: p.87-91--S: p.34-35			
18 Capsulorrhexis Forceps	AE-4344R	C: p.91-93--S: p.32-35	16 	17 	18 
19 Towel Clamp	AE-4800	C: p.98			
20 Serrefine	AE-4820	C: p.99			
21 Corneal Section Scissors	AE-5012	C: p.102-104	19 	20 	21 
22 Iris Scissors	AE-5220	C: p.106-107			
23 Capsulotomy Scissors	AE-5490	C: p.107-108			
24 Conjunctiva Scissors	AE-5505	C: p.109--S: p.40	22 	23 	24 
25 Stitch Scissors	AE-5510	C: p.109, 112			
26 Needle Holder	AE-6141	C: p.114-116--S: p.43			
27 Cleaning I/A Handle	AE7-0029	S: p.52			
28 Silicone Bulb	AE-7195	C: p.120			
29 Irrigating Cannula	AE-7200	C: 119-120	27 	28 	29 
30 Skinny I/A Tip	AE7-3052	S: p.54			
31 Ball I/A Tip	AE7-3062	S: p.54			
32 Cortex Extractor	AE-7431	C: p.124-125			
33 Hydrodissection Cannula	AE-7621	C: p.127-128--S: p.41-45			
34 Hydrodissection Cannula	AE-7636	C: p.127-128--S: p.41-45			
35 Dual Port Hydro Cannula	AE-7642	S: p.45			
36 Injector	AE-9063CSP	S: p.51, 55			
25 	26 	28 	29 	30 	31 
32 	33 	34 	35 	36 	

C = CATALOG(1999)

S = SUPPLEMENT(2012)

# Cataract Clear Corneal Set

Instrument Type	Item Number	Reference/Options
1 Disposable Blade	ADVANCUT	<a href="#">S: p.58</a>
2 Aspirating Speculum	AE-1040AN	C: p.12, 14-17, 19-- <a href="#">S: p.4-7</a>
3 Caliper	AE-1500	C: p.24-25, 27
4 Incision Gauge	AE-1577T	<a href="#">S: p.8</a>
5 Fixation Ring	AE-2198	C: p.35-- <a href="#">S: p.10, 18</a>
6 Lens Manipulator	AE-2208	C: p.36-45-- <a href="#">S: p.12-13, 15</a>
7 Chopper + Spatula	AE-2520	C: p.43-45-- <a href="#">S: p.13-17</a>
8 Nucleus Sustainer	AE-2530	C: p.43-45-- <a href="#">S: p.12-13, 15</a>
9 Nucleus Chopper	AE-2527	C: p.43-45-- <a href="#">S: p.13-17, 26</a>
10 Keratometer	AE-2743	C: p.51
11 Vertical Prechopper	AE-4190	C: p.85-- <a href="#">S: p.27-28, 30-32</a>
12 Horizontal Prechopper	AE-4192	C: p.85-- <a href="#">S: p.27-28, 30-32</a>
13 Lens Implantation (Silicone)	AE-4267	C: p.83-84
14 Capsulorrhexis Forceps	AE-4344R	C: p.91-93-- <a href="#">S: p.32-35</a>
15 Capsulotomy Scissors	AE-5490	C: p.107-108
16 Irrigating Handpiece	AE7-0208	<a href="#">S: p.52-53</a>
17 Aspirating Handpiece	AE7-0218	<a href="#">S: p.52-53</a>
18 Hydrodissection Cannula	AE-7621	C: p.127-128-- <a href="#">S: p.41-45</a>
19 Hydrodilneation Cannula	AE-7630	C: p.128, 137
20 Dual Port Hydro Cannula	AE-7643	C: p.127-128-- <a href="#">S: p.45</a>
21 Paracentesis Diamond Knife	AE-8121	C: p.148-153-- <a href="#">S: p.48-50</a>
22 Sideport Diamond Knife	AE-8131	C: p.148-153-- <a href="#">S: p.48-50</a>
23 Clear Cornea Diamond Knife	AE-8190	C: p.148-153-- <a href="#">S: p.48-50, 58</a>



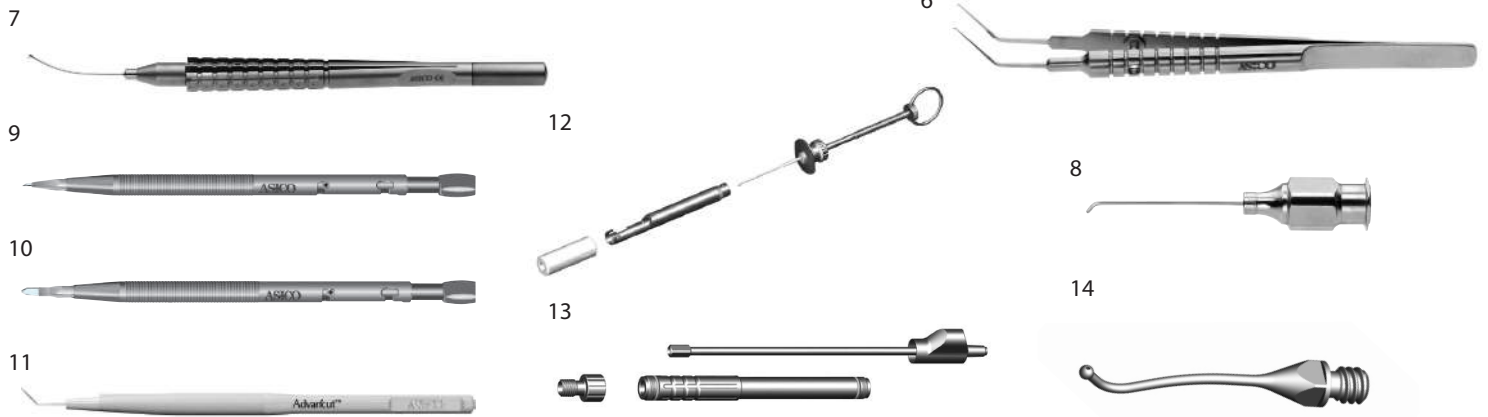
C = CATALOG(1999)

[S = SUPPLEMENT\(2012\)](#)



# Micro Coaxial Set

Instrument Type	Item Number	Reference/Options
1 Speculum	AE-1040N	C: p.12-22--S: p.4-7
2 Horizontal Chopper/Manipulator	AE-2520	C: p.43-45--S: 13-17, 26
3 Vertical Chopper	AE-2573	C: p.43-45--S: 13-17, 26
4 Vertical Prechopper	AE-4190	C: p.85--S: p.27-28, 30-32
5 Horizontal Prechopper	AE-4192	C: p.85
6 Capsulorrhexis Forceps	AE-4344R	C: p.91-93--S: p.33-35
7 Micro CCC Forceps	AE-4385	S: p.34-35
8 Hydrodissection Cannula	AE-7643	C: p.127-128--S: p.41-45
9 Sideport Diamond Knife	AE-8131	C: p.148-153--S: p.48-50
10 Diamond Knife	AE-8190	C: p.148-153--S: p.48-50
11 Disposable Blade	AS-8312	S: p.58
12 Injector	AE-9063CSP	S: p.51,55
13 I/A Handle	AE7-0029	S: p.52-53
14 I/A Tip	AE7-3062	S: p.54



# Femtosecond Cataract Set

Instrument Type	Item Number	Reference/Options
1 Speculum	AE-1033	S: p.5
2 Spatula	AE-2326	S: p.11
3 Nucleus Divider	AE-4289	S: p.31
4 I/A Handle	AE7-0029	S: p.52
5 I/A Tip	AE7-3062	S: p.54
6 Hydrodissection Cannula	AE-7654	S: p.41-45



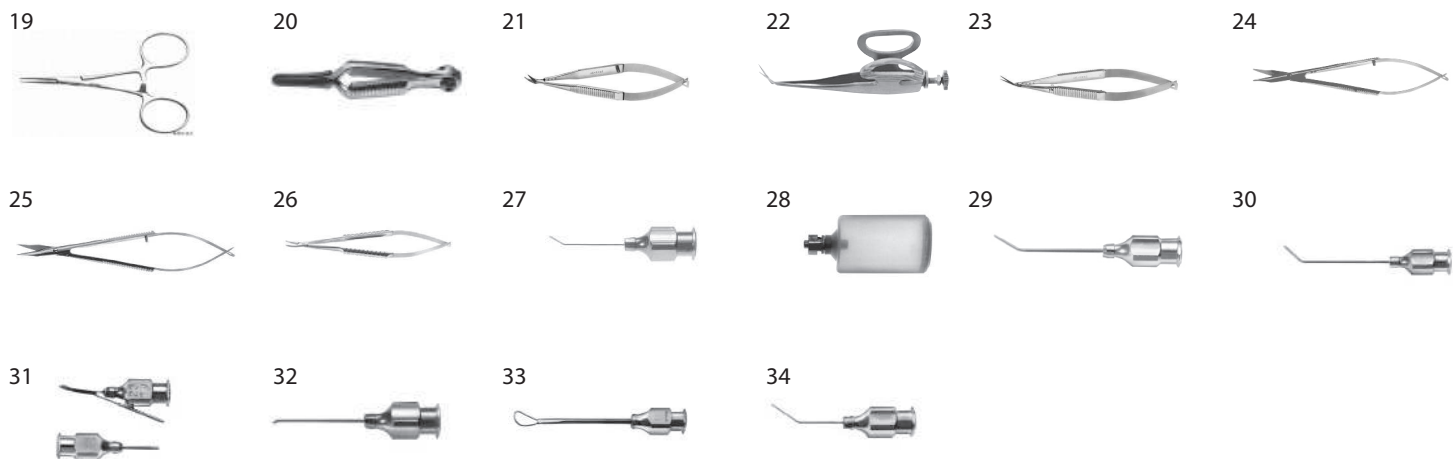
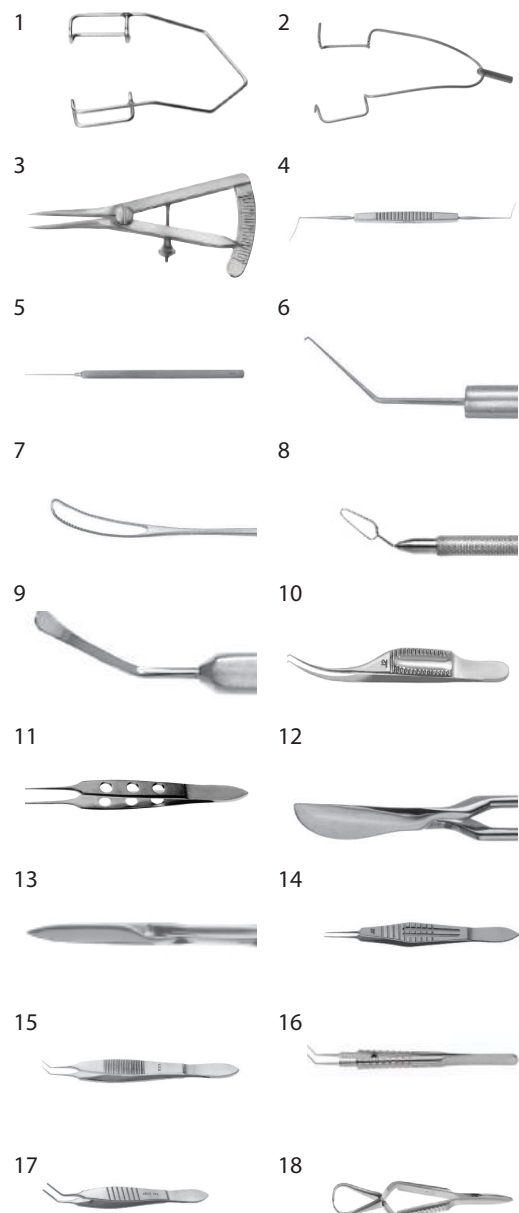
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S = SUPPLEMENT(2012)



# ECCE Set

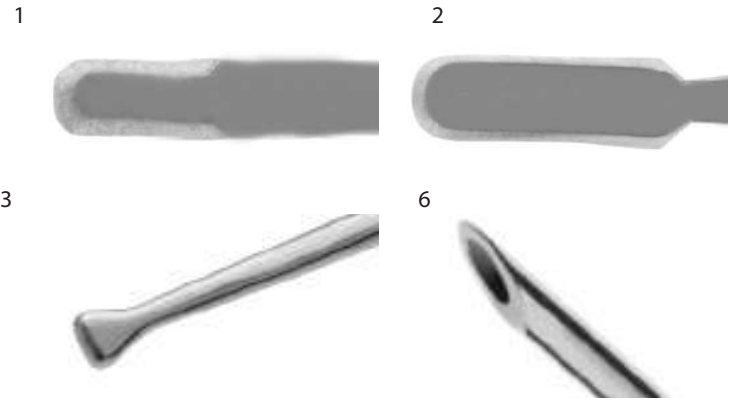
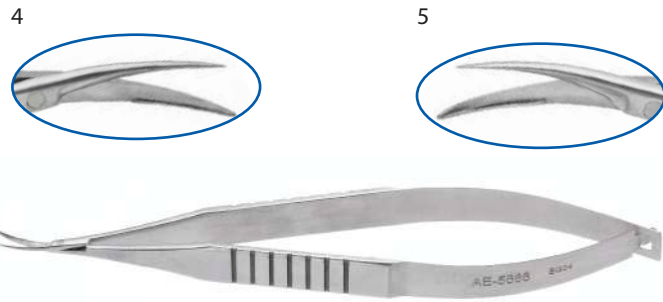
Instrument Type	Item Number	Reference/Options
1 Wire Speculum	AE-1003	C: p.12-22--S: p.4-7
2 Aspirating Speculum	AE-1021	C: p.15-17--S: p.4-7
3 Caliper	AE-1500	C: 24-25, 27-28
4 Cyclodialysis Spatula	AE-2072	C: p.33
5 Iris Hook	AE-2150	C: p.34
6 Lens Manipulator	AE-2208	C: 36-40--S: 12-13, 15
7 Lens Loop	AE-2556	C: p.46-47
8 Nucleus Trisector	AE-2612	C: p.48
9 Nucleus Vectis	AE-2620	C: p.48
10 Corneal Forceps	AE-4030N	C: p.68-71
11 Tissue Forceps	AE-4101	C: p.71-72
12 Vertical Prechopper	AE-4190	C: p.85--S: p.28, 30-32
13 Horizontal Prechopper	AE-4192	C: p.85
14 Suturing Forceps	AE-4300	C: p.86-87
15 Tying Forceps	AE-4374	C: p.87-91, 93--S: p.34-35
16 Capsulorrhexis Forceps	AE-4344VR	C: p.91-93--S: p.32-35
17 Nucleus Fragment Forceps	AE-4399	C: p.94
18 Towel Clamp	AE-4800	C: p.98
19 Mosquito Forceps	AE-4815	C: p.98
20 Serrefine	AE-4820	C: p.99
21 Corneal Section Scissors	AE-5012	C: p.102-104
22 Iris Scissors	AE-5220	C: p.107
23 Capsulotomy Scissors	AE-5490	C: p.107-108
24 Tenotomy Scissors	AE-5500	C: p.109,112
25 Stitch Scissors	AE-5510	C: p.109
26 Needle Holder	AE-6161	C: p.115, 114-116
27 Air Injection Cannula	AE-7000	C: p.118, 121--S: 43-47
28 Silicone Bulb	AE-7195	C: p.120
29 Irrigating Cannula	AE-7200	C: p.119-120--S: 43-47
30 Aspirating Cannula	AE-7271	C: p.121-123--S: 41-45
31 I/A Cannula	AE-7330	C: p.121-123
32 Capsule Polisher Cannula	AE-7530S	C: p.126--S: p.44
33 Irrigating Vectis Cannula	AE-7620	C: p.127
34 Hydrodissection Cannula	AE-7629	C: p.127-128, 137



# DALK Sets

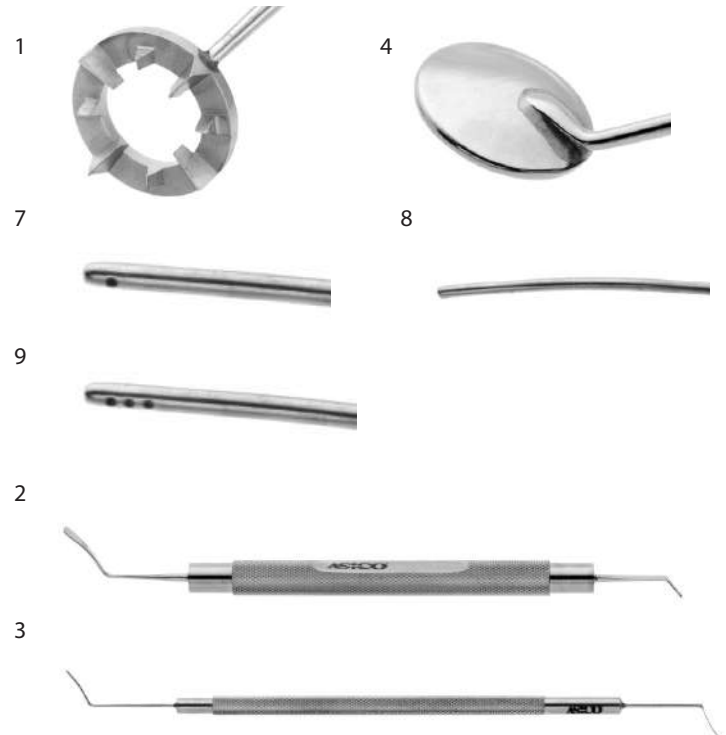
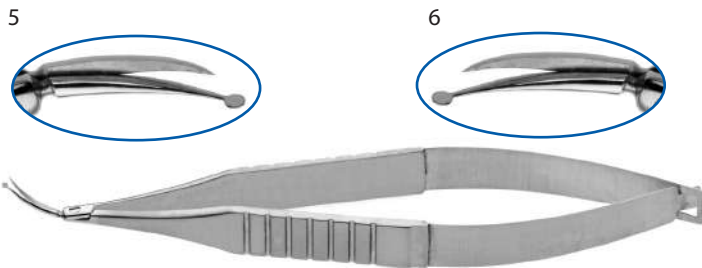
## Tan Dalk Set

Instrument Type	Item Number	Reference/Options
1 Micro Lamellar Dissector	AE-2541	S: p.14
2 Large Lamellar Dissector	AE-2547	S: p.14
3 Marginal Dissector	AE-2549	S: p.15, 23
4 Left DALK Scissors	AE-5666	S: p.42
5 Right DALK Scissors	AE-5667	S: p.42
6 Big Bubble Cannula	AE-7803	S: p.46-47



## John Dalk Set

Instrument Type	Item Number	Reference/Options
1 Suture Marker	AE-2849	S: p.21
2 Pre-Descemet's Spatula	AE-2902	S: p.14, 24
3 Narrow Stromal Spatula	AE-2904	S: p.15, 23-24
4 Compression Disc	AE-2905	S: p.24
5 Right DALK Scissors	AE-5668	S: p.42
6 Left DALK Scissors	AE-5668L	S: p.42
7 Single-Port ALK Cannula	AE-7822	S: p.46-47
8 Probe/Tracker	AE-7823	S: p.47
9 Triple-Port ALK Cannula	AE-7824	S: p.46-47



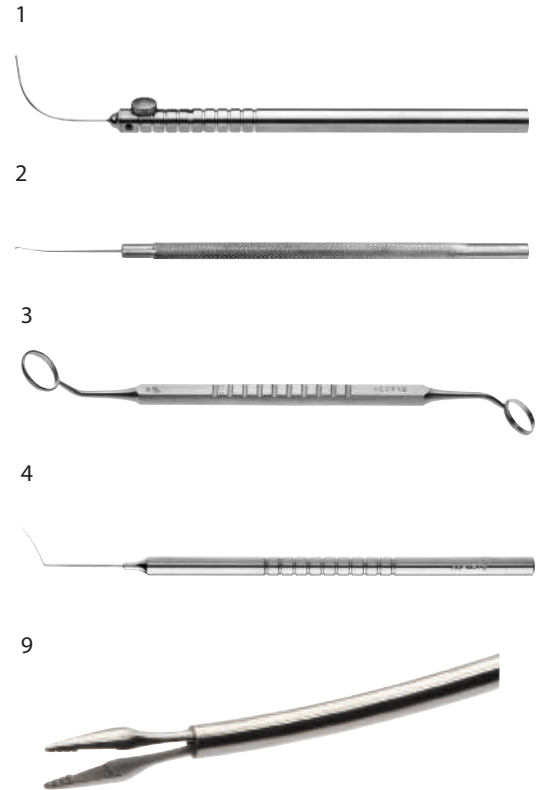
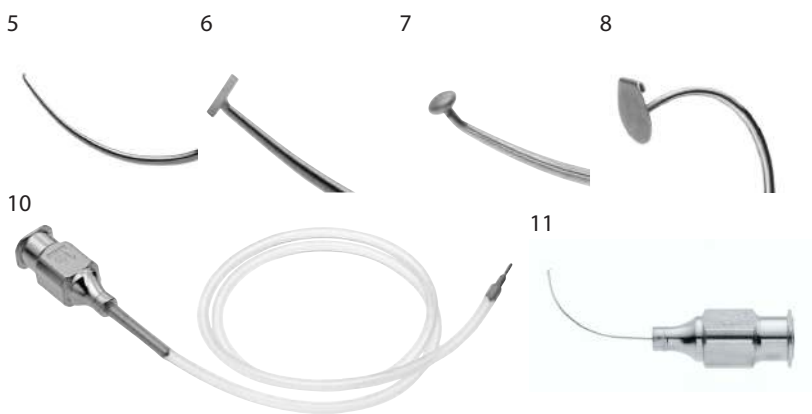
## Sarnicola Dalk Set

Instrument Type	Item Number	Reference/Options
1 Big Bubble Spatula	AE-2900	S: p.15, 23
2 Big Bubble Cannula	AE-7821	S: p.46-47



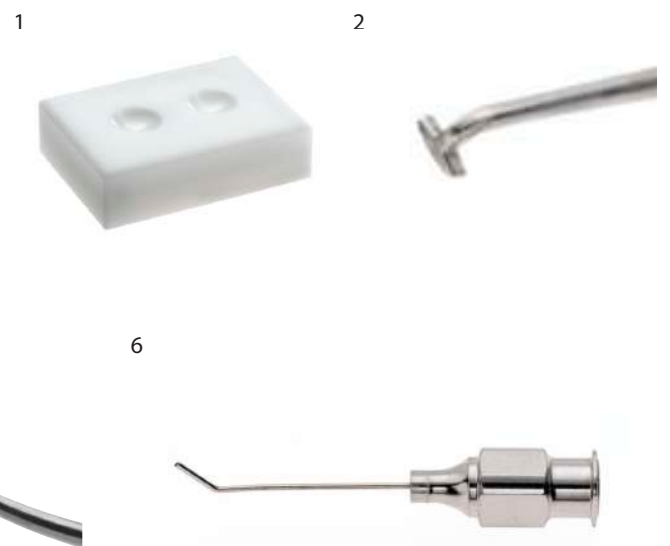
# DSAEK Set

Instrument Type	Item Number	Reference/Options
1 Fixation Hook	AE-2182	S: p.10, 18
2 Manipulating Hook	AE-2209	C: p.36--S: p.11
3 OZ Marker	AE-2712	S: p.17, 24
4 Spatula	AE-2870	C: p.32-33--S: p.12, 22-24
5 Dextatome Spatula	AE-2872	S: p.23
6 Descemet Stripper	AE-2874	S: p.23
7 Stromal Scrubber	AE-2878	S: p.23
8 Glider	AE-2879	S: p.23
9 Donor Insertion Forceps	AE-4226	C: p.77-81--S: p.29
10 Chamber Maintainer	AE-7802	S: p.43
11 Donor Adjuster	AE-7806	C: p.131--S: p.46



# DMEK Set

Instrument Type	Item Number	Reference/Options
1 Twin Block	AE-1586	S: p.9
2 Rake	AE-2327	S: p.11
3 Large Crystal Spatula	AE-2328	C: p.32-33--S: p.12
4 Small Crystal Spatula	AE-2329	C: p.32-33--S: p.12
5 Dextatome Spatula	AE-2872	S: p.23
6 DMEK Cannula	AE-7002	S: p.43

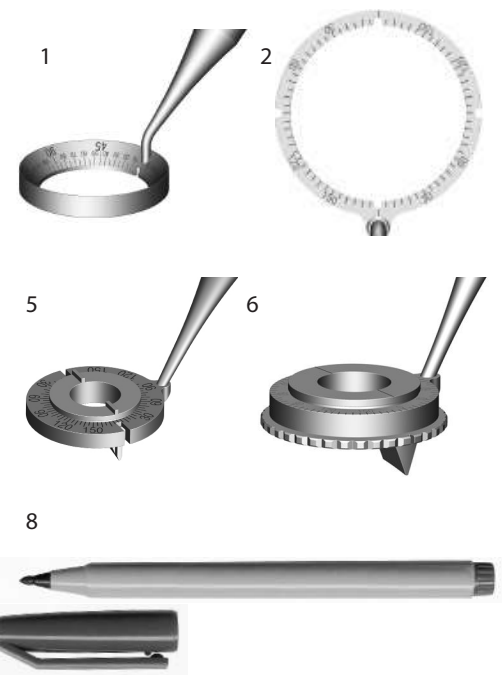
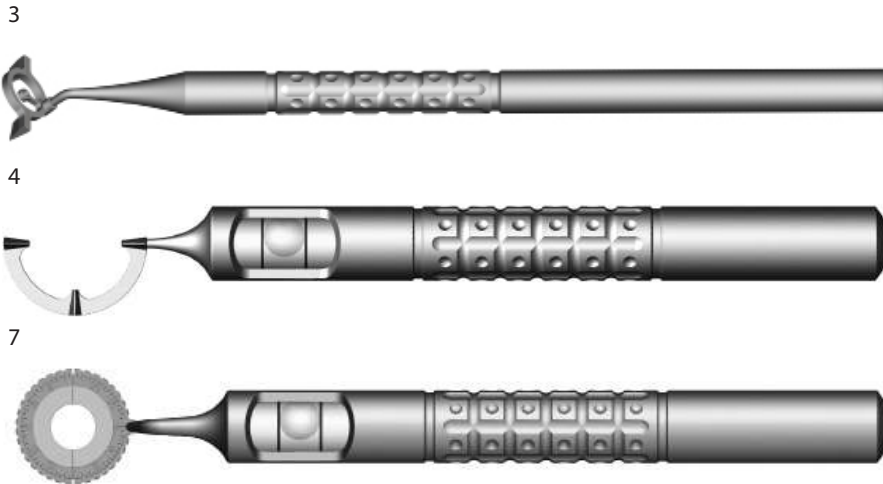


C = CATALOG(1999)

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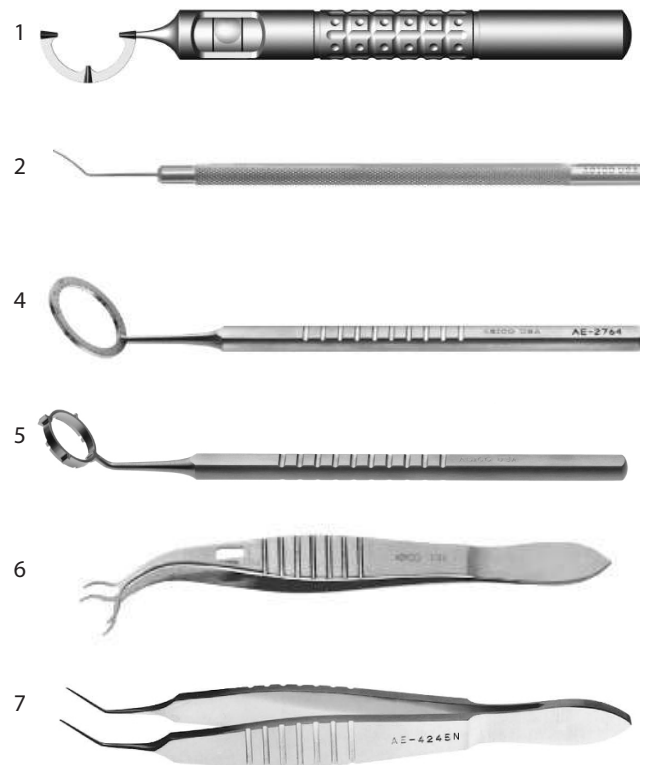
# Toric Set

Instrument Type	Item Number	Reference/Options
1 Beveled Degree Gauge	AE-1589	S: p.9
2 Flat Degree Gauge	AE-1595	S: p.9-10
3 Intra-Op Toric Axis Marker	AE-2740H	S: p.17, 19-20
4 Pre-Op Toric Marker	AE-2791TBL	S: p.18-20
5 One-Hand Toric Marker	AE-2794N	S: p.19-20
6 One-Hand Toric Marker, Small Eyes	AE-2848N	S: p.20-21
7 Preo-Op + Intra-Op Marker	AE-2799T	S: p.20
8 Marking Pens	AS-1583N	S: p.55



# LRI Set

Instrument Type	Item Number	Reference/Options
1 Pre-Op Marker	AE-2791TBL	S: p.19
2 Hook/Manipulator	AE-2219	C: p.33-40--S: p.11
3 Keratometer	AE-2743	C: p.51
4 Gauge	AE-2764N	S: p.18
5 LRI Marker	AE-2863	C: p.58-59--S: p.20-21
6 Fixation Forceps	AE-4155	C: p.73-74
7 Lens Holding Forceps	AE-4245N	C: p.75-77, 79, 81
8 LRI Diamond Knife	AE-8133	C: p.157--S: p.48-50
9 Marking Pens	AS-1583N	S: p.55

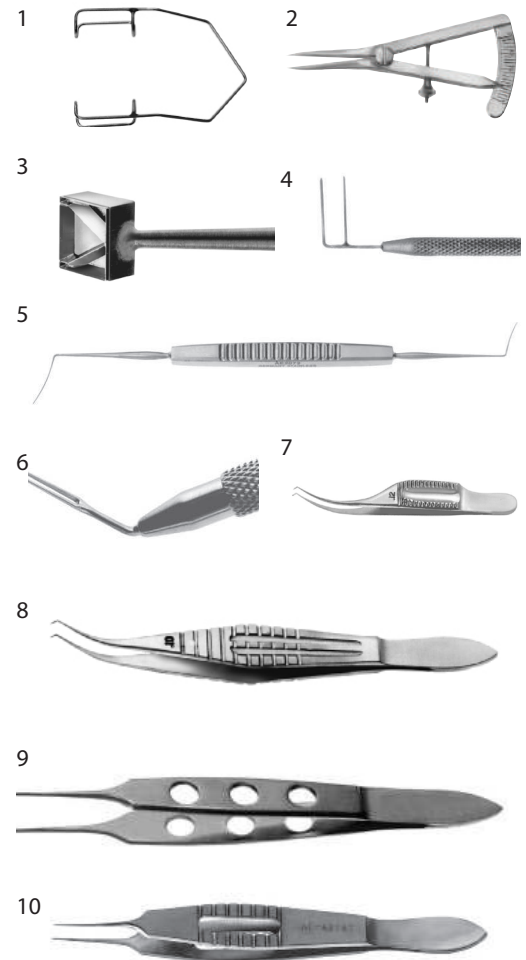


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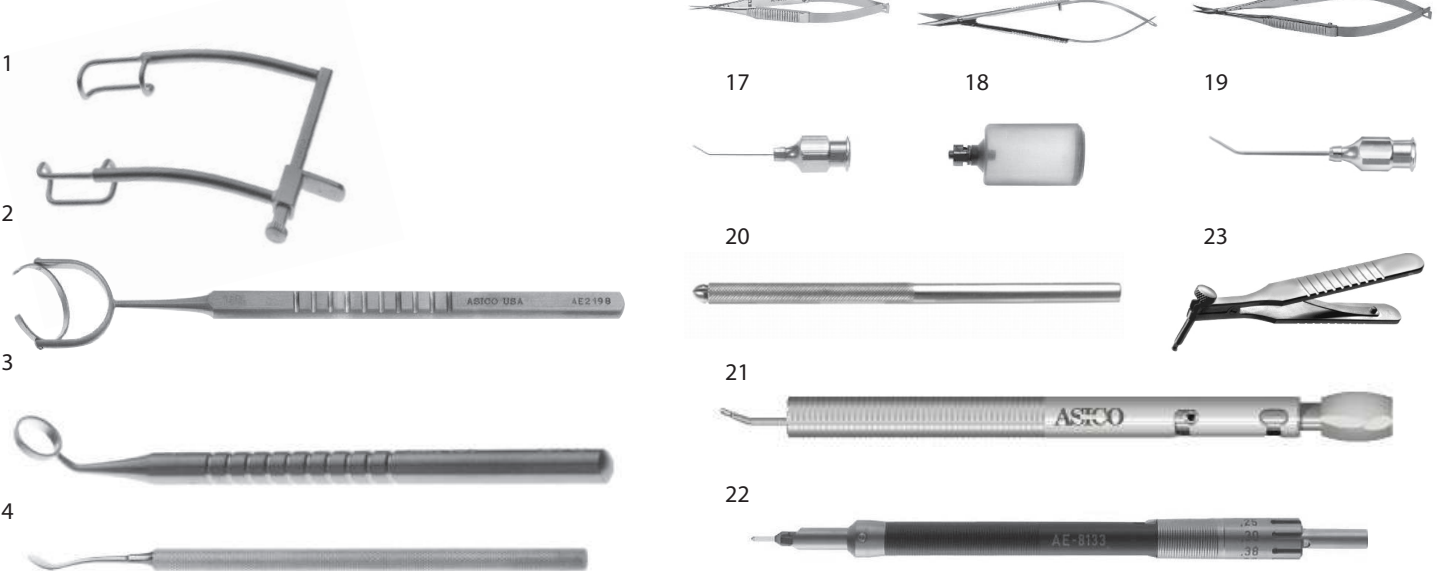
# Glaucoma Set

Instrument Type	Item Number	Reference/Options
1 Wire Speculum	AE-1002	C: p.12-14--S: p.4-7
2 Caliper	AE-1500	C: p.24-25, 27-28
3 USC Marker	AE-1526	C: p.26-27
4 Trabeculotomy Probe	AE-1630	C: p.29
5 Cyclodialysis Spatula	AE-2072	C: p.33
6 Scleral Shaver/Planer	AE-2430	C: p.40
7 Iris Forceps	AE-4030N	C: p.68
8 Conjunctiva Forceps	AE-4053	C: p.80
9 Tissue Forceps	AE-4100	C: p.71-72
10 Tying Forceps	AE-4373	C: p.87-91--S: p.34-35
11 Towel Clamp	AE-4800	C: p.98
12 Mosquito Forceps	AE-4815	C: p.98
13 Iris Scissors	AE-5220	C: p.106-107, 111
14 Vannas Scissors	AE-5495N	C: p.107-108
15 Tenotomy Scissors	AE-5501	C: p.109, 112
16 Stitch Scissors	AE-5509	C: p.109, 112
17 Air Injection Cannula	AE-7000	C: p.118, 121, 134--S: p.43-47
18 Silicone Bulb	AE-7195	C: p.120
19 Irrigating Cannula	AE-7200	C: p.119-121, 135--S: p.41-45
20 Blade Handle	AE-8002	C: p.145
21 Micro Diamond Knife	AE-8114	S: p.48-50
22 Preset Diamond Knife	AE-8133	C: p.154--S: p.48-50
23 Glaucoma Punch	AE-8305	C: p.146--S: p.50



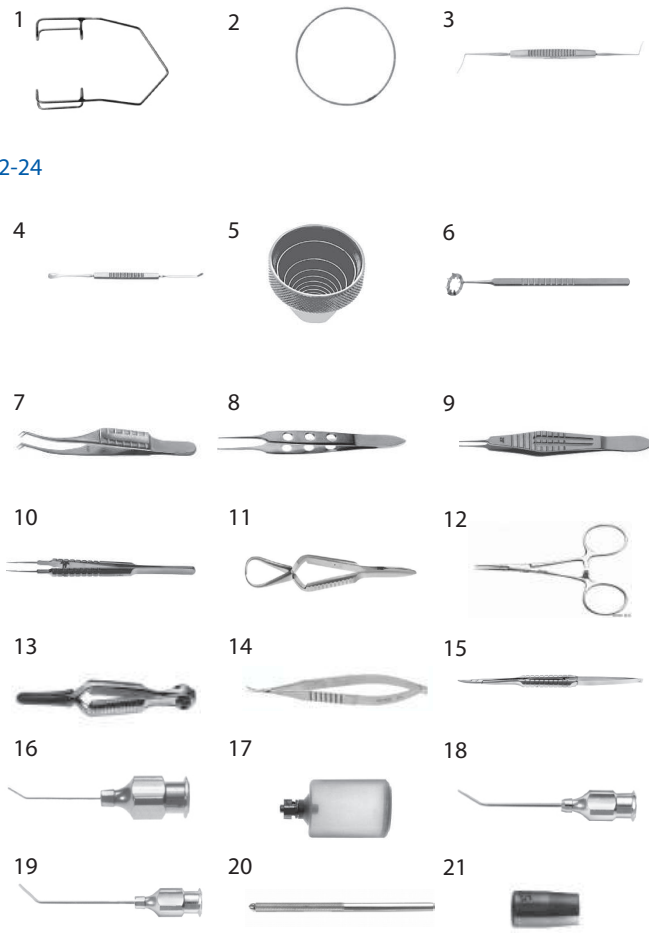
# PRK Set

Instrument Type	Item Number	Reference/Options
1 Speculum	AE-1083	C: p.13-18--S: p.4-7
2 Fixation Ring	AE-2198	C: p.25--S: p.10, 18
3 OZ Marker	AE-2715	C: p. 49-50--S: p.17, 24
4 Spatula	AE-2766	C: p. 54--S: p.22-24



# Corneal Set

Instrument Type	Item Number	Reference/Options
1 Speculum	AE-1002	C: p.12, 14-15--S: p.4-7
2 Fixation Ring	AE-1318	C: p.24, 35--S: p.10, 18
3 Cyclodialysis Spatula	AE-2072	C: p.33
4 Spatula/Manipulator	AE-2321	C: p.32-33, 36-39--S: p.13-17, 20, 22-24
5 Keratometer	AE-2743	C: p. 51
6 Suture Marker	AE-2759	C: p.53--S: p.21, 22
7 Corneal Forceps	AE-4041	C: p. 69-71, 86-87
8 Tissue Forceps	AE-4101	C: p.71-72
9 Suturing Forceps	AE-4300	C: p.86-87
10 Tying Forceps	AE-4381	C: p.87-91--S: p.34-35
11 Towel Clamp	AE-4800	C: p.98
12 Mosquito Forceps	AE-4815	C: p.98
13 Serrefine	AE-4820	C: p.99
14 Corneal Scissors	AE-5666	C: p.102-105--S: p.42-43
15 Needle Holder	AE-6160	C: p.115, 114-116
16 Air Injection Cannula	AE-7000	C: p.118, 121--S: p.43-47
17 Silicone Bulb	AE-7195	C: p.120
18 Irrigating Cannula	AE-7200	C: p.119-120--S: p.41-45
19 Aspirating Cannula	AE-7271	C: p.121-123--S: p.43-47
20 Blade Handle	AE-8002	C: p.145
21 Trephine	AE-8205	C: p.147
22 Diamond Knife	AE-8131	C: p.148-157--S: p.48-50, 58

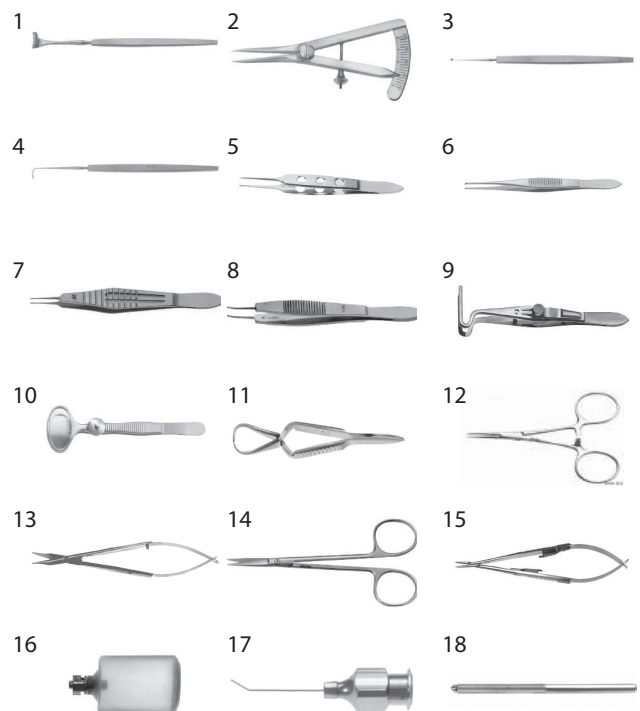


22



# Lid Set

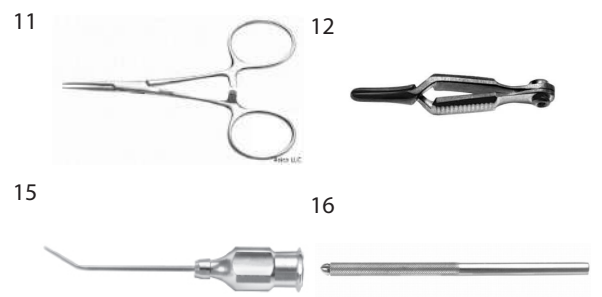
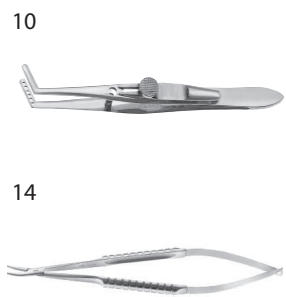
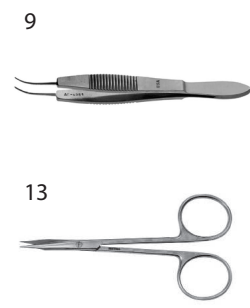
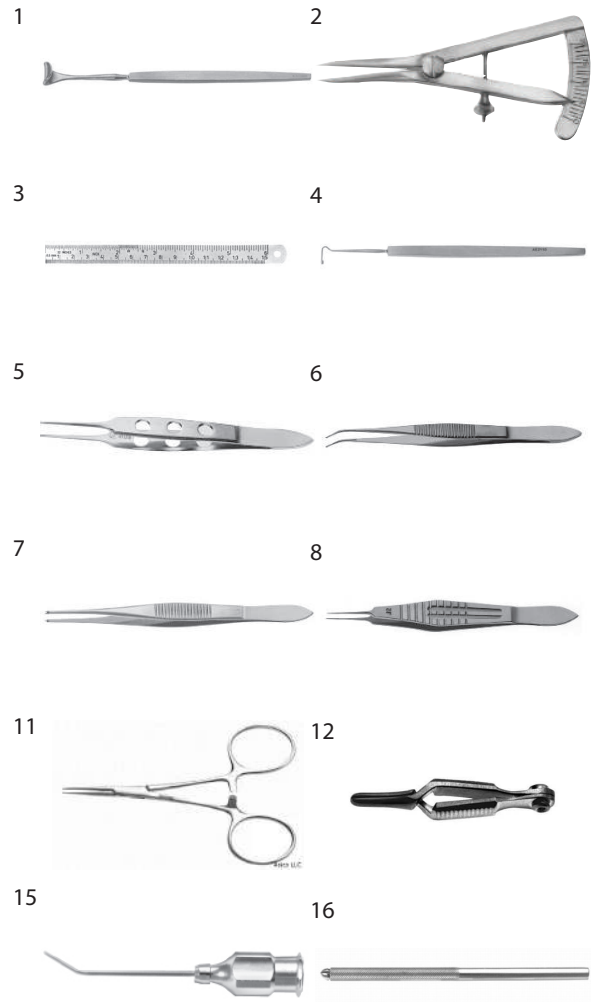
Instrument Type	Item Number	Reference/Options
1 Lid Retractor	AE-1231	C: p.23
2 Caliper	AE-1500	C: p.24-25, 27
3 Curette	AE-2000	C: p.32
4 Muscle Hook	AE-2101	C: p.33-34
5 Dressing Forceps	AE-4102	C: p.72
6 Fixation Forceps	AE-4160	C: p.73-74
7 Suturing Forceps	AE-4304	C: p.86-87
8 Tying Forceps	AE-4351	C: p.87-93
9 Ptosis Forceps	AE-4400	C: p.94
10 Chalazion Forceps	AE-4620	C: p.96-97
11 Towel Clamp	AE-4800	C: p.98
12 Mosquito Forceps	AE-4815	C: p.98
13 Tenotomy Scissors	AE-5500	C: p.109, 112
14 Eye Scissors	AE-5702	C: p.111
15 Needle Holder	AE-6220	C: p.116, 114-115
16 Silicone Bulb	AE-7195	C: p.120
17 Irrigating Cannula	AE-7200	C: p.119-120--S: p.41-45
18 Blade Handle	AE-8002	C: p.145





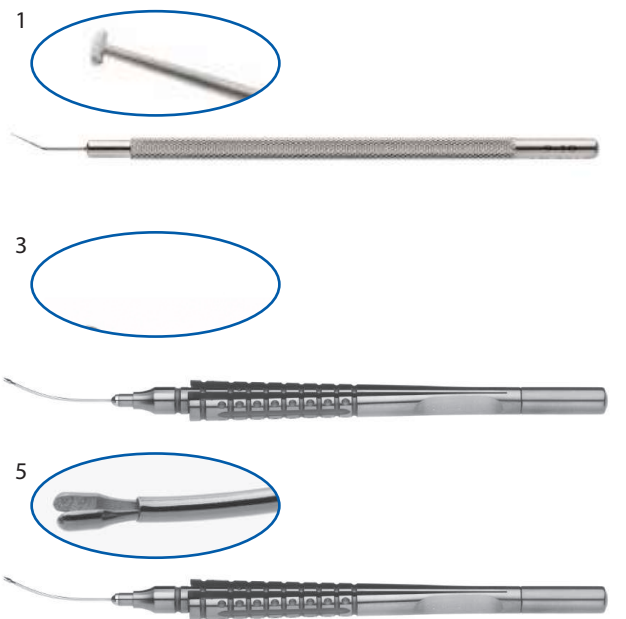
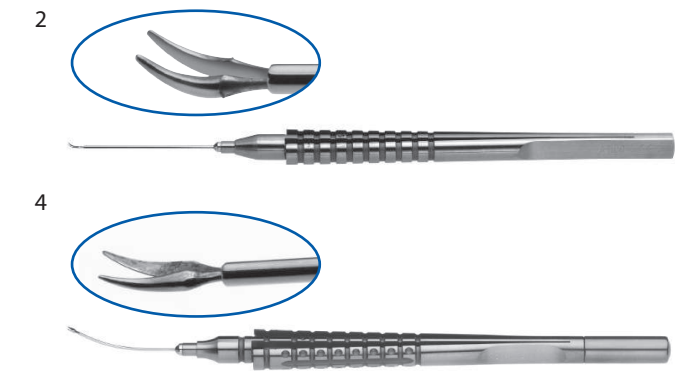
# Muscle Set

Instrument Type	Item Number	Reference/Options
1 Lid Retractor	AE-1231	C: p.23
2 Caliper	AE-1500	C: p.24-25, 27
3 Ruler	AE-1510	C: p.25
4 Muscle Hook	AE-2110	C: p.33-34
5 Tissue Forceps	AE-4102	C: p.71-72
6 Dressing Forceps	AE-4111	C: p.72
7 Fixation Forceps	AE-4160	C: p.73-74
8 Suturing Forceps	AE-4304	C: p.86-87
9 Tying Forceps	AE-4351	C: p.87-93
10 Muscle Forceps	AE-4410	C: p.94
11 Mosquito Forceps	AE-4815	C: p.98
12 Serrefine	AE-4820	C: p.99
13 Tenotomy Scissors	AE-5720	C: p.109, 112
14 Needle Holder	AE-6161	C: p.116, 114-115--S: p.43
15 Irrigating Cannula	AE-7200	C: p.119-120--S: p.41-45
16 Blade Handle	AE-8002	C: p.145



# ICMS Set

Instrument Type	Item Number	Reference/Options
1 Suture Retrieving Hook	AE-2210	S: p.11
2 Tying Forceps	AE-4906	C: p.87-93
3 Grasping Forceps	AE-4907	S: p.36
4 Curved Scissors	AE-5613	C: p.102-105--S: p.41
5 Needle Holder	AE-6902	S: p.43

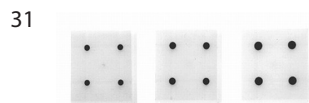


C = CATALOG(1999)

S = SUPPLEMENT(2012)

# Retinal Set

Instrument Type	Item Number	Reference/Options
1 Speculum	AE-1002	C: p. 12-14--S: p.4-7
2 Caliper	AE-1500	C: p.24-25, 27
3 Scleral Depressor	AE-1701	C: p.30
4 Muscle Hook	AE-2126	C: p.33-34
5 Tissue Forceps	AE-4100	C: p.71-72
6 Dressing Forceps	AE-4111	C: p.72
7 Fixation Forceps	AE-4172	C: p.73-74
8 Suturing Forceps	AE-4300	C: p.86-87--S: p.32
9 Tying Forceps	AE-4351	C: p.87-93--S: p.34-35
10 Muscle Forceps	AE-4410	C: p.94
11 Mosquito Forceps	AE-4815	C: p.98
12 Serrefine	AE-4820	C: p.99
13 Plug Forceps	AE-4900N	C: p.99
14 Sleeve Spreader	AE-4910	C: p.99
15 End Gripping Forceps	AE-4912	S: p.37
16 Fine End Gripping Forceps	AE-4912T	S: p.37
17 Vitreous Pick Forceps	AE-4913	S: p.37
18 Thin Vitreous Pick Forceps	AE-4913T	S: p.37
19 Serrated Vitreous Forceps	AE-4914	S: p.37
20 Stitch Scissors	AE-5510	C: p.109, 112
21 Curved Vitreous Scissors	AE-5607	S: p.40-42
22 Vertical Vitreous Scissors	AE-5609	S: p.40-42
23 Eye Scissors	AE-5700	C: p.111
24 Tenotomy Scissors	AE-5720	C: p.112
25 Needle Holder	AE-6161	C: p.116, 114-115--S: p.43
26 Air Injection Cannula	AE-7000	C: p.118, 121--S: p.43-47
27 Irrigating Cannula	AE-7200	C: p.119-120--S: p.41-45
28 Back Flush Needle	AE-7901	C: p.130, 137
29 Sub Retinal Drainage Needle	AE-7903	C: p.130, 137
30 Back Flush Handle	AE-7931	C: p.130
31 Scleral Plugs	AE-7953	C: p.130
32 Blade Handle	AE-8002	C: p.145--S: p.48-50
33 Retinal Diamond Knife	AE-8090	C: p.148-157--S: p.48-50



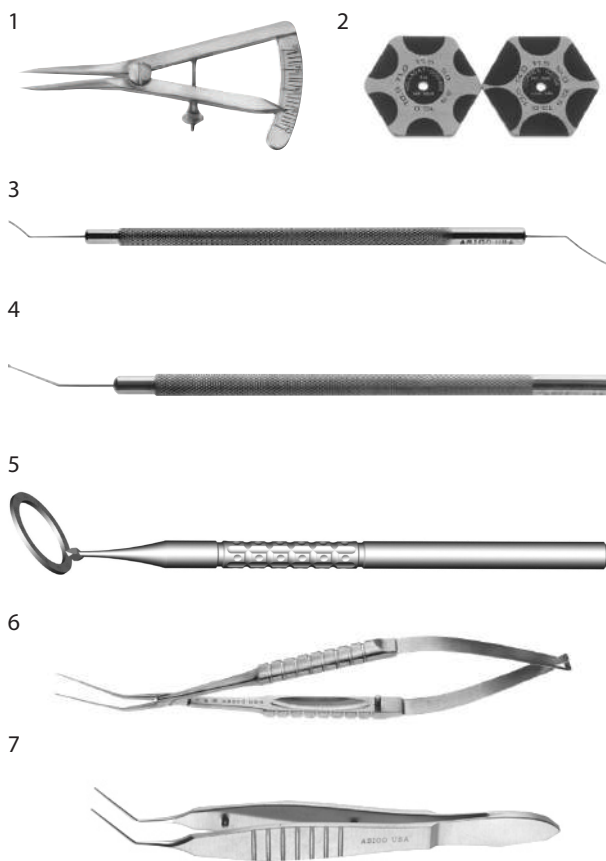
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S = SUPPLEMENT(2012)



# Implantable Contact Lens Set

Instrument Type	Item Number	Reference/Options
1 Caliper	AE-1500	C: p.24-25, 27
2 Cornea Gauge	AE-1576	C: p.28
3 Spatula/Manipulator	AE-2420	C: p.40, 41-45
4 Lens Manipulator	AE-2531	C: p.39-40--S: p.12-13, 15
5 Gauge	AE-2765N	C: p.53-54--S: p.18
6 Loading Forceps	AE-4224	C: p.77-81--S: p.29
7 Lens Removal Forceps	AE-4256	C: p.82
8 Cartridge Forceps	AE-4446	S: p.35
9 Iridectomy Forceps	AE-4965	S: p.38
10 Iridectomy Scissors	AE-5665	C: p.111



# Phakic Lens Set

Instrument Type	Item Number	Reference/Options
1 Hook	AE-2219	C: p.36, 33-35--S: p.11
2 Lens Holding Forceps	AE-4245N	C: p.80
3 Iridectomy Forceps	AE-4965	S: p.38
4 Iridectomy Scissors	AE-5665	C: p.111
5 Diamond Knife	AE-8133	C: p:148-157--S: p.48-50



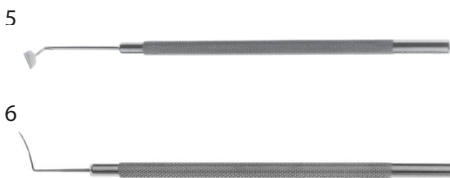
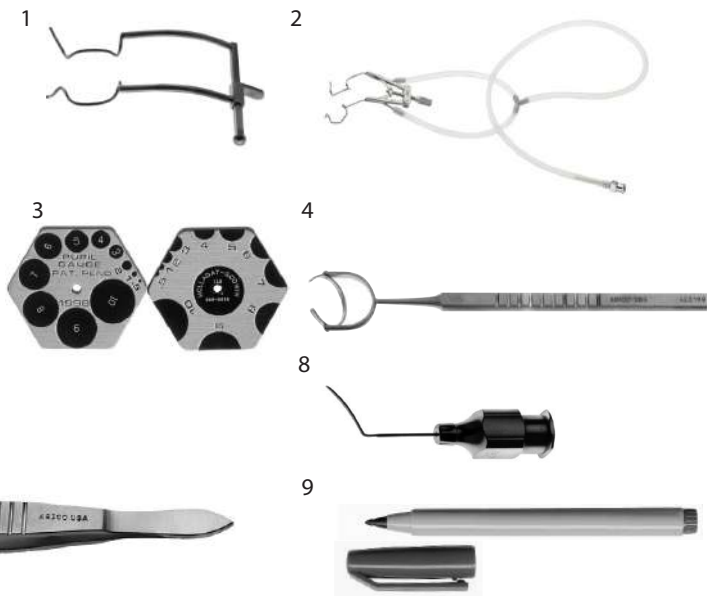
C = CATALOG(1999)

S = SUPPLEMENT(2012)

# LASIK Sets

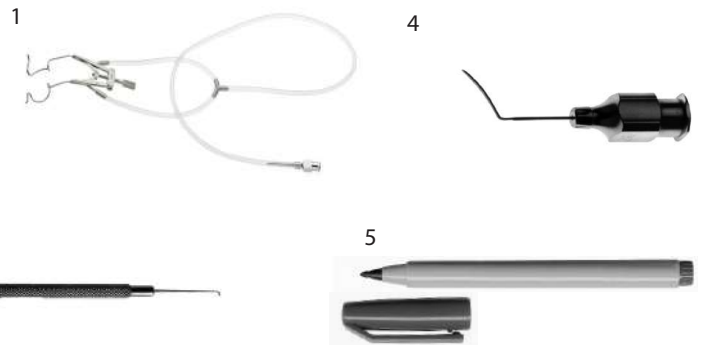
## Primary LASIK Set

Instrument Type	Item Number	Reference/Options
1 Wire Speculum	AE-1033	C: p.12-14--S: p.4-7
2 Aspirating Speculum	AE-1043AN	C: p.16, 17--S: p.4-7
3 Pupil Gauge	AE-1573	C: p.27
4 Fixation Device	AE-2198	C: p.35--S: p.10, 18
5 Retractor/Protector	AE-2821	C: p.59
6 Spatula	AE-2825	C: p.59-61--S: p.11, 20, 25
7 Forceps	AE-4358	C: p.87-88
8 Cannula	AE-7282	C: p.121-122--S: p.43-45
9 Marking Pen	AS-1583N	S: p.55



## LASIK Retreatment Set

Instrument Type	Item Number	Reference/Options
1 Aspirating Speculum	AE-1042AN	C: p.16, 17--S: p.4-7
2 Marker	AE-2800	C: p.57-58
3 Retreatment Spatula	AE-2830	C: p.60-61--S: p.11, 20, 25
4 Cannula	AE-7287	C: p.121--S: p.43-45
5 Marking Pen	AS-1583N	S: p.55



## LASIK Emergency Set

Instrument Type	Item Number	Reference/Options
1 Colibri Forceps	AE-4050	C: p.68-70--S: p.26
2 Tissue Forceps	AE-4081	C: p.71-72
3 Tying Forceps	AE-4373	C: p.87-91, 93--S: p.34-35
4 Vannas Scissors	AE-5496	C: p.107-109
5 Needle Holder	AE-6173	C: p.114-p.116--S: p.43
6 Anterior Chamber Cannula	AE-7210	C: p.120--S: p.43-45



C = CATALOG(1999)

S = SUPPLEMENT(2012)

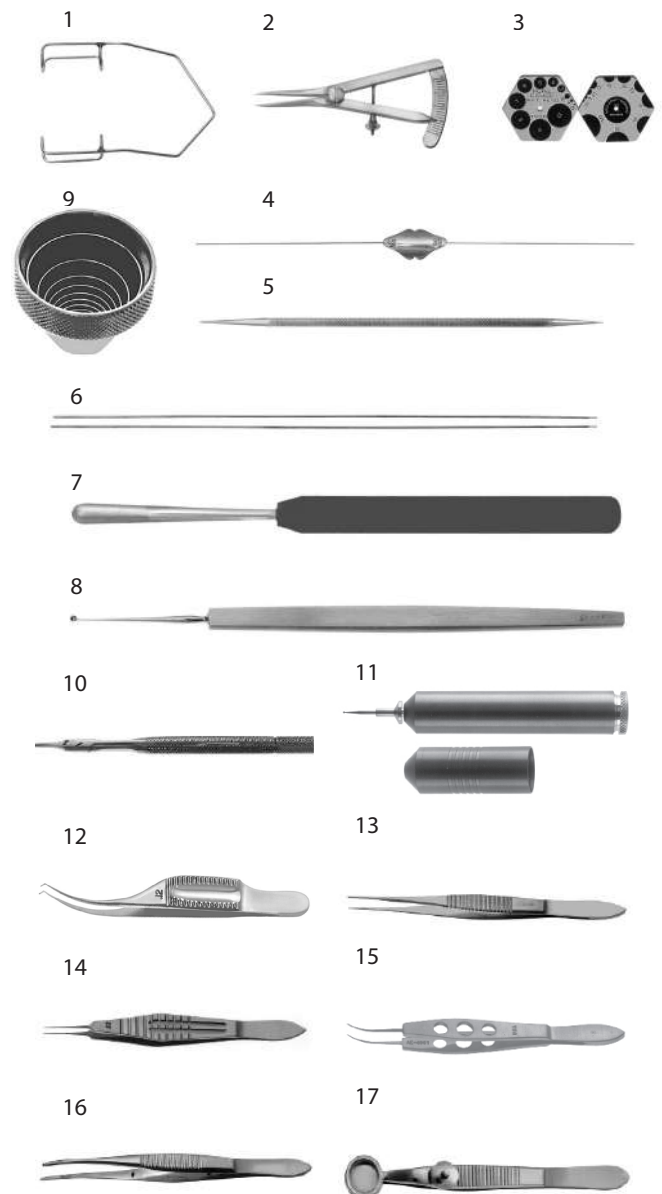
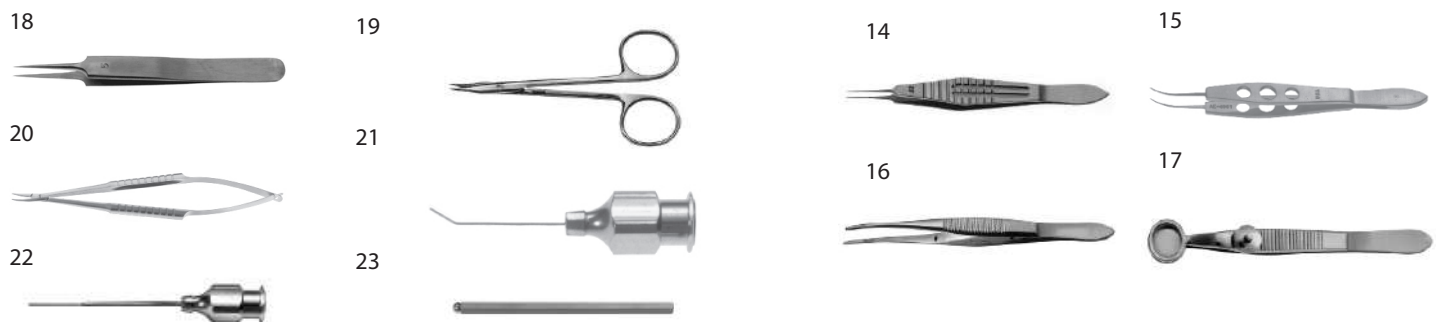
# Opticians Set

Instrument Type	Item Number	Reference/Options
1 Algerbrush	AE-3250	C: p.66--S: p.26
2 Spud	AE-3039	C: p.64
3 Jeweler's Forceps	AE-4707	C: p.97-98
4 Cilia Forceps	AE-4520	C: p.95--S: p.36



# Office (Basic) Set

Instrument Type	Item Number	Reference/Options
1 Speculum	AE-1002	C: p.12-22--S: p.4-7
2 Caliper	AE-1500	C: p.25, 27
3 Pupil Gauge	AE-1573	C: p.28
4 Lacrimal Probes	AE-1600	C: p.29
5 Lacrimal Dialator	AE-1640	C: p.29
6 Lacrimal Intubation Set	AE-1670	C: p.30
7 Scleral Depressor	AE-1702	C: p.30
8 Chalazion Curette	AE-2000	C: p.32
9 Keratometer	AE-2743	C: p.51
10 Blade Breaker	AE-3200	C: p.66
11 Algerbrush	AE-3250	C: p.66--S: p.26
12 Colibri forceps	AE-4030N	C: p.68-70--S: p.26
13 Tissue Forceps	AE-4120	C: p.71-72
14 Suturing Forceps	AE-4300	C: p.86-87
15 Tying Forceps	AE-4361	C: p.87-91, 93--S: p.34-35
16 Cilia Forceps	AE-4520	C: p.95--S: p.36
17 Chalazion	AE-4610	C: p.96-97
18 Jeweler's Forceps	AE-4705	C: p.97-98
19 Stitch Scissors	AE-5710	C: p.109, p.112
20 Needle Holder	AE-6141	C: p.114-116--S: p.43
21 Air Injection Cannula	AE-7000	C: p.118, 121--S: p.43-47
22 Lacrimal Cannula	AE-7010	C: p.118
23 Blade Handle	AE-8000	C: p.145



C = CATALOG(1999)

S = SUPPLEMENT(2012)

## AE - 1000

AE-1001	4	AE-1080	14
AE-1002	4, 201, 202, 204, 207	AE-1081	14
AE-1003	4, 197	AE-1082	14
AE-1005	4	AE-1083	15, 201
AE-1006	4	AE-1084	15
AE-1010	4	AE-1085	15
AE-1011	4	AE-1086	15
AE-1012	5	AE-1089	15
AE-1013	5	AE-1090	15
AE-1014	5	AE-1100	16
AE-1014AN	5	AE-1110	16
AE-1014N	5	AE-1122	16
AE-1015	6	AE-1131	16
AE-1016	6	AE-1132	16
AE-1018	6	AE-1141	17
AE-1019	6	AE-1142	17
AE-1020	6	AE-1151	17
AE-1021	7, 194, 197	AE-1200	17
AE-1022	7	AE-1210	17
AE-1023	7	AE-1220	18
AE-1024	7	AE-1231	18, 202, 203
AE-1025	8	AE-1232	18
AE-1026	8	AE-1233	18
AE-1027	8	AE-1234	18
AE-1028	8	AE-1240	18
AE-1030	8	AE-1250	18
AE-1031	8	AE-1251	18
AE-1033	9, 196, 206	AE-1260	18
AE-1038N	9	AE-1312	19
AE-1039N	9	AE-1313	19
AE-1040AN	9, 195	AE-1314	19
AE-1040N	10, 196	AE-1315	19
AE-1041AN	10	AE-1316	19
AE-1041AS	10	AE-1317	19
AE-1041H	10	AE-1318	19, 202
AE-1041N	10	AE-1319	19
AE-1042A	11	AE-1320	19
AE-1042AN	11, 206	AE-1321	19
AE-1042N	11	AE-1322	19
AE-1043A	11	AE-1400	19
AE-1043AN	12, 206	AE-1400L	19
AE-1043N	12	AE-1410	19
AE-1044H	12	AE-1420	19
AE-1044N	12	AE-1500	19, 194, 195, 197, 201, 202, 203, 204, 205, 207
AE-1045N	12	AE-1501	19
AE-1046AN	13	AE-1502	19
AE-1046N	13	AE-1503	20
AE-1047N	13	AE-1505	20
AE-1048	13	AE-1510	20, 203
AE-1048N	13	AE-1511	20
AE-1049	14	AE-1512	20
AE-1050	14	AE-1513	20
AE-1051AN	14	AE-1514	20
AE-1060	14	AE-1515	20
		AE-1516	20

AE-1517 20  
AE-1518 20  
AE-1519 20  
AE-1520 20  
AE-1521 20  
AE-1522 21  
AE-1523 21  
AE-1524 21  
AE-1525 21  
AE-1526 21, 201  
AE-1527 21  
AE-1528 22  
AE-1529 22  
AE-1530 22  
AE-1540 22  
AE-1573 22, 206, 207  
AE-1574T 23  
AE-1576 23, 205  
AE-1577T 195  
AE-1578 23  
AE-1579 23  
AE-1582T 23  
AE-1586 24, 199  
AE-1589 24, 200  
AE-1590T 24  
AE-1591 24  
AE-1592N 24  
AE-1594N 25  
AE-1595 25, 200  
AE-1600 25, 207  
AE-1610 25  
AE-1612 25  
AE-1614 25  
AE-1616 25  
AE-1618 25  
AE-1630 25, 201  
AE-1631 25  
AE-1640 26, 207  
AE-1650 26  
AE-1651 26  
AE-1660 26  
AE-1661 26  
AE-1662 26  
AE-1670 26, 207  
AE-1675 26  
AE-1676 26  
AE-1700 26  
AE-1701 27, 204  
AE-1702 27, 207  
AE-1705 27  
AE-1706 27  
AE-1707 27

## AE - 2000

AE-2000 30, 202, 207

AE-2001 30  
AE-2002 30  
AE-2003 30  
AE-2004 30  
AE-2040 30  
AE-2049 30  
AE-2050 30  
AE-2052 30  
AE-2060 31  
AE-2065 31  
AE-2071 31  
AE-2072 31, 197, 201, 202  
AE-2101 31, 202  
AE-2102 31  
AE-2103 31  
AE-2110 31, 203  
AE-2120 32  
AE-2125 32  
AE-2126 32, 204  
AE-2128 32  
AE-2150 32, 194, 197  
AE-2160 32  
AE-2170 32  
AE-2172 32  
AE-2182 33, 199  
AE-2183 33  
AE-2184 33  
AE-2186 33  
AE-2187 33  
AE-2189 33  
AE-2190 34  
AE-2191 34  
AE-2194 34  
AE-2195 34  
AE-2196 34  
AE-2197 34  
AE-2198 34, 194, 195, 201, 206  
AE-2199 34  
AE-2200 35, 36  
AE-2206 35  
AE-2207 35  
AE-2208 35, 194, 195, 197  
AE-2209 35, 199  
AE-2210 35, 203  
AE-2212 36  
AE-2217 36  
AE-2218 36  
AE-2219 36, 200, 205  
AE-2221 36  
AE-2222 37  
AE-2223 37  
AE-2225 37  
AE-2230 37  
AE-2231 37  
AE-2234 37  
AE-2241 37

AE-2250 38  
AE-2310 38  
AE-2320 38  
AE-2321 38, 202  
AE-2322 38  
AE-2325 38  
AE-2326 39, 196  
AE-2327 39, 199  
AE-2328 39, 199  
AE-2329 39, 199  
AE-2331 39  
AE-2335 39  
AE-2400 40  
AE-2401 40  
AE-2410 40  
AE-2411 40  
AE-2412 40  
AE-2413 40  
AE-2419 41  
AE-2420 41, 205  
AE-2421 41  
AE-2422 41  
AE-2423 41  
AE-2430 42, 201  
AE-2431 42  
AE-2433 42  
AE-2498 42  
AE-2499 42  
AE-2500 43  
AE-2501 43  
AE-2502 43  
AE-2503 43  
AE-2504 43  
AE-2505 43  
AE-2506 44  
AE-2507 44  
AE-2508 44  
AE-2509 44  
AE-2511 44  
AE-2512 44, 194  
AE-2513 44  
AE-2515 45  
AE-2516 45  
AE-2517 45, 194  
AE-2517A 45  
AE-2517L 45  
AE-2518 45  
AE-2520 45, 194, 195, 196  
AE-2521 46  
AE-2522 46  
AE-2523 46  
AE-2524 46  
AE-2525 46  
AE-2526 46  
AE-2527 47, 195  
AE-2528 47  
AE-2529 47  
AE-2530 47, 195  
AE-2530L 47  
AE-2531 48, 205  
AE-2532 48  
AE-2532S 48  
AE - 2533 48  
AE - 2534 48  
AE-2536 49  
AE-2537 49  
AE-2539 49  
AE-2540 49  
AE-2541 49, 198  
AE-2542 50  
AE-2543 50  
AE-2544 50  
AE-2545 50  
AE-2546 50  
AE-2547 49, 198  
AE-2548 51  
AE-2549 51, 198  
AE-2550 51  
AE-2551 51  
AE-2552 51  
AE-2553 52  
AE-2554 52  
AE-2556 52, 197  
AE-2560 52  
AE-2561 52  
AE-2565 53  
AE-2567 53  
AE-2568 53  
AE-2570 53  
AE-2571 53  
AE-2572 53  
AE-2573 54, 196  
AE-2574 54  
AE-2575 54  
AE-2576 54  
AE-2580 54  
AE-2590 55  
AE-2610 55  
AE-2611 55  
AE-2612 55, 197  
AE-2615 55  
AE-2618 55  
AE-2619 55  
AE-2620 55, 197  
AE-2700 55  
AE-2704 55  
AE-2708 55  
AE-2709 55  
AE-2710 55  
AE-2712 56, 199  
AE-2713 55

AE-2714	56	AE-2791TBL	63, 200
AE-2715	56, 201	AE-2793D	64
AE-2720	56	AE-2793S	64
AE-2722	56	AE-2794N	64, 200
AE-2723	56	AE-2795	63
AE-2724	56	AE-2798N	64
AE-2725	56	AE-2799T	64, 200
AE-2728	57	AE-2800	65, 206
AE-2729	57	AE-2801	65
AE-2730	57	AE-2802	65
AE-2731	57	AE-2803	65
AE-2733	57	AE-2806	65
AE-2734	57	AE-2807	65
AE-2736	57	AE-2808	66
AE - 2737	57	AE-2809	66
AE-2738	57	AE-2811	66
AE-2739	57	AE-2811S	66
AE-2740H	58, 200	AE-2812	66
AE-2740N	58	AE-2813	67
AE-2742	58	AE-2814	67
AE-2743	58, 194, 195, 200, 202, 207	AE-2816	67
AE-2744	58	AE-2817	67
AE-2745	58	AE-2818	67
AE-2746	58	AE-2819	67
AE-2747	59	AE-2821	68, 206
AE-2748	59	AE-2822	68
AE-2750	59	AE-2823	68
AE-2750L	59	AE-2824	68
AE-2753	59	AE-2825	68, 206
AE-2754	59	AE-2826	68
AE-2756	60	AE-2827	69
AE-2757	60	AE-2827S	69
AE-2759	60, 202	AE-2828	69
AE-2760	60	AE-2829	69
AE-2761	60	AE-2830	69, 206
AE-2762	60	AE-2831	69
AE-2763N	61	AE-2832	69
AE-2764N	61, 200	AE-2833	69
AE-2765N	61, 205	AE-2834	70
AE-2766	61, 201	AE-2835	70
AE-2767	61	AE-2836	70
AE-2768	61	AE-2837	70
AE-2770	62	AE-2838	70
AE-2772	62	AE-2839	70
AE-2773	62	AE-2840	71
AE-2774	62	AE-2841	71
AE-2775	62	AE-2842	71
AE-2776	62	AE-2843	71
AE-2777	62	AE-2844	71
AE-2780	63	AE - 2845	71
AE-2781	63	AE-2847	72
AE-2782	63	AE-2848N	72, 200
AE-2783	63	AE-2849	72, 198
AE-2788	63	AE-2850	72
AE-2789	63	AE-2851	72
AE-2791BLP	63	AE-2852	73

AE-2853 73  
AE-2858 73  
AE-2859 73  
AE-2860 73  
AE-2862 73  
AE-2863 73, 200  
AE-2865 73  
AE-2868 74  
AE-2870 74, 199  
AE-2872 74, 199  
AE-2874 74, 199  
AE-2878 74, 199  
AE-2879 75, 199  
AE-2899 75  
AE-2900 75, 198  
AE-2902 75, 198  
AE-2904 75, 198  
AE-2905 76, 198  
AE-2910 76  
AE-2911 76  
AE-2912 76  
AE-2913 76  
AE-2914 76  
AE-2915 76  
AE-2916 76  
AE-2917 76  
AE-2921 76  
AE-2922 77  
AE-2923 77  
AE-2925C 77  
AE-2926C 77  
AE-2929 77  
AE - 2929H 77  
AE-2930 78  
AE-2930H 78  
AE-2934 78  
AE-2935 78  
AE-2939 77  
AE-2950 78

### **AE - 3000**

AE-3020 80  
AE-3021 80  
AE-3022 80  
AE-3025 80  
AE-3030 80  
AE-3039 80, 207  
AE-3050 80  
AE-3060 80  
AE-3061 81  
AE-3073 81  
AE-3080 81  
AE-3100 81  
AE-3101 81  
AE-3102 81

AE-3103 81  
AE-3200 81, 207  
AE-3201 81  
AE-3250 81, 207  
AE-3251 81  
AE-3252 81  
AE-3254 82  
AE-3255 81  
AE-3260 82

### **AE - 4000**

AE-4010 84  
AE-4011 84, 194  
AE-4030N 84, 197, 201, 207  
AE-4031N 84  
AE-4034 84  
AE-4036N 84  
AE-4037 85  
AE-4038 85  
AE-4039 85  
AE-4041 85, 202  
AE-4045 85  
AE-4049 86  
AE-4050 86, 206  
AE-4051N 86  
AE-4052 86  
AE-4053 86, 201  
AE-4060N 87  
AE-4061 87  
AE-4070 87  
AE-4071 87  
AE-4080 87  
AE-4081 87, 206  
AE-4090 87  
AE-4100 88, 201, 204  
AE-4101 88, 194, 197, 202  
AE-4102 194, 202, 203  
AE-4110 88  
AE-4111 88, 203, 204  
AE-4120 88, 207  
AE-4121 88  
AE-4130 88  
AE-4131 88  
AE-4150 89  
AE-4151 89  
AE-4155 89, 200  
AE-4160 89, 202, 203  
AE-4164 89  
AE-4168 90  
AE-4172 90, 204  
AE-4173 90  
AE-4175 90  
AE-4176 90  
AE-4177 90  
AE-4180 91



AE-4189 91  
AE-4190 91, 195, 196, 197  
AE-4191 91  
AE-4192 92, 195, 196, 197  
AE-4193 92  
AE-4194 92  
AE-4203 92  
AE-4204 92  
AE-4209 93  
AE-4211 93  
AE-4217 93  
AE-4219 93  
AE-4220 93  
AE-4221 94  
AE-4222 94  
AE-4224 94, 205  
AE-4225 94  
AE-4226 94, 199  
AE-4227 95  
AE-4230 95  
AE-4231 95  
AE-4234 95  
AE-4235 95  
AE-4236 96  
AE-4236L 96  
AE-4237L 96  
AE-4240 96  
AE-4241 96  
AE-4242 96  
AE-4243 97  
AE-4244 97  
AE-4245N 97, 200, 205  
AE-4247 97  
AE-4251 97  
AE-4253N 98  
AE-4254 98  
AE-4255N 98  
AE-4256 98, 205  
AE-4259 98  
AE-4260 99  
AE-4261 98  
AE-4262AN 99, 194  
AE-4264 99  
AE-4265 99  
AE-4267 99, 194, 195  
AE-4269 99  
AE-4270N 100  
AE-4271 100  
AE-4272L 100  
AE-4272N 100  
AE-4273N 100  
AE-4275 100  
AE-4276N 100  
AE-4282 101  
AE-4283 101  
AE-4284 101  
AE-4285 101  
AE-4286 101  
AE-4287 102  
AE-4289 102, 196  
AE-4290 102  
AE-4292 102  
AE-4293 103  
AE-4295 103  
AE-4300 103, 194, 197, 202, 204, 207  
AE-4302N 103  
AE-4304 103, 202, 203  
AE-4306 103  
AE-4308 103  
AE-4313 103  
AE-4315 103  
AE-4320 104  
AE-4321 104  
AE-4329 104  
AE-4330 104  
AE-4333 104  
AE-4340 104  
AE-4344 104  
AE-4344L 104  
AE-4344R 105, 194, 195, 196  
AE-4344V 104  
AE-4344VR 105, 197  
AE-4345 105  
AE-4346 105  
AE-4347 105  
AE-4350 106  
AE-4351 106, 202, 203, 204  
AE-4356 106  
AE-4357 106  
AE-4358 106, 206  
AE-4359 106  
AE-4360 106  
AE-4361 106, 207  
AE-4362 107  
AE-4365 107  
AE-4367 107  
AE-4368 107  
AE-4368S 107  
AE-4370 107  
AE-4371 108  
AE-4372 108  
AE-4373 107, 201, 206  
AE-4374 108, 194, 197  
AE-4375 108  
AE-4377 108  
AE-4378 108  
AE-4379 108  
AE-4380 109  
AE-4381 109, 202  
AE-4382 109

AE-4385 109, 196  
AE-4385S 109  
AE-4386 109  
AE-4387 109  
AE-4388 110  
AE-4389S 110  
AE-4390 110  
AE-4391 110  
AE-4394 110  
AE-4394L 110  
AE-4394S 110  
AE-4394SL 110  
AE-4395SL 111  
AE-4395SN 111  
AE-4397 111  
AE-4397V 111  
AE-4397VL 111  
AE-4398 111  
AE-4399 111, 197  
AE-4400 111, 202  
AE-4401 111  
AE-4402 112  
AE-4402S 112  
AE-4403 112  
AE-4404 110, 112  
AE-4410 112, 203, 204  
AE-4411 112  
AE-4420 112  
AE-4430 113  
AE-4440 113  
AE-4441 113  
AE-4446 113, 205  
AE-4447 113  
AE-4500 113  
AE-4501 113  
AE-4504RH 114  
AE-4520 114, 207  
AE-4528 114  
AE-4530 114  
AE-4545 114  
AE-4600 115  
AE-4610 115, 207  
AE-4620 115, 202  
AE-4630 115  
AE-4640 115  
AE-4650 115  
AE-4660 116  
AE-4701 #1 116  
AE-4703 #3 116  
AE-4704 #4 116  
AE-4705 207  
AE-4705 #5 116  
AE-4705A #5A 117  
AE-4707 207  
AE-4707 #7 117  
AE-4800 117, 194, 197, 201, 202

AE-4810 117  
AE-4811 117  
AE-4815 117, 197, 201, 202, 203, 204  
AE-4816 117  
AE-4820 117, 194, 197, 202, 203, 204  
AE-4821 117  
AE-4900N 118, 204  
AE-4906 118, 203  
AE-4907 118, 203  
AE-4908 118  
AE-4909 118  
AE-4910 118, 204  
AE-4911 118  
AE-4912 119, 204  
AE-4912T 119, 204  
AE-4913 119, 204  
AE-4913T 119, 204  
AE-4914 119, 204  
AE-4915 119  
AE-4916 118  
AE-4917 119  
AE-4918 120  
AE-4919 120  
AE-4923 118  
AE-4924 119  
AE-4924T 119  
AE-4925 119  
AE-4925T 119  
AE-4926 119  
AE-4927 120  
AE-4929 120  
AE-4962 120  
AE-4965 120, 205  
AE-4965S 121  
AE-4969 121  
AE-4975 121  
AE-4980 121  
AE-4982 122  
AE-4983 122  
AE-4990 122

## **AE - 5000**

AE-5000 124  
AE-5001 124  
AE-5002 124  
AE-5012 124, 194, 197  
AE-5013 124  
AE-5030 124  
AE-5031 124  
AE-5032 125  
AE-5033 125  
AE-5045N 125  
AE-5052N 125

AE-5054N 125  
AE-5062 125  
AE-5100 126  
AE-5101 126  
AE-5110 126  
AE-5111 126  
AE-5120 126  
AE-5220 127, 194, 197, 201  
AE-5400 127  
AE-5410 127  
AE-5420 127  
AE-5430 127  
AE-5437 127  
AE-5438 128  
AE-5490 128, 194, 195, 197  
AE-5491 128  
AE-5492 128  
AE-5495N 128, 201  
AE-5496 129, 206  
AE-5500 129, 197, 202  
AE-5501 129, 201  
AE-5505 129, 194  
AE-5507 129  
AE-5508 129  
AE-5509 129, 201  
AE-5510 130, 194, 197, 204  
AE-5606 130  
AE-5607 130, 204  
AE-5608 130  
AE-5609 130, 204  
AE-5611 131  
AE-5612 131  
AE-5613 131, 203  
AE-5614 131  
AE-5615 131  
AE-5622 131  
AE-5623 130  
AE-5625 130  
AE-5626 130  
AE-5663 132  
AE-5665 132, 205  
AE-5666 132, 198, 202  
AE-5667 132, 198  
AE-5668 132, 198  
AE-5668L 132, 198  
AE-5669 132  
AE-5680 130  
AE-5700 133, 204  
AE-5701 133  
AE-5702 133, 202  
AE-5703 133  
AE-5705 133  
AE-5706 133  
AE-5710 133, 207  
AE-5720 134, 203, 204  
AE-5721 134

AE-5730 134  
AE-5731 134  
AE-5740 134  
AE-5741 134

## **AE - 6000**

AE-6000 136  
AE-6001 136  
AE-6010 136  
AE-6011 136  
AE-6100 136  
AE-6101 136  
AE-6110 136  
AE-6111 136  
AE-6130N 136  
AE-6131 136  
AE-6140 136  
AE-6141 136, 194, 207  
AE-6150 137  
AE-6151 137  
AE-6160 137, 202  
AE-6161 137, 197, 203, 204  
AE-6170 137  
AE-6171 137  
AE-6172 137  
AE-6173 137, 206  
AE-6200N 137  
AE-6201 137  
AE-6210 137  
AE-6211 137  
AE-6220 138, 202  
AE-6230 138  
AE-6400 138  
AE-6902 , 137  
AE-6903 , 137

## **AE - 7000**

AE-7000 140, 197, 201, 202, 204, 207  
AE-7001 140  
AE-7002 140, 199  
AE-7003 140  
AE-7004 140  
AE-7005 140  
AE-7006 140  
AE-7009 140  
AE-7010 140, 207  
AE-7011 140  
AE-7020 140  
AE-7021 140  
AE-7030 141  
AE-7031 141  
AE-7040 141  
AE-7041 141  
AE-7050 141  
AE-7060 141

AE-7070	141	AE-7310	146
AE-7071	141	AE-7311	146
AE-7076	141	AE-7320	146
AE-7100	141	AE-7330	146, 197
AE-7101	141	AE-7330R	147
AE-7102	140	AE-7330RS	147
AE-7115	142	AE-7330S	146
AE-7120	142	AE-7331	147
AE-7130	142	AE-7332	146
AE-7131	142	AE-7340	147
AE-7190	142	AE-7370	147
AE-7195	142, 194, 197, 201, 202	AE-7371	147
AE-7196	142	AE-7375	147
AE-7197	142	AE-7380	148
AE-7200	142, 194, 197, 201, 202, 203, 204	AE-7381	148
AE-7201	143	AE-7385	148
AE-7202	143	AE-7386	148
AE-7203	143	AE-7389	148
AE-7204	143	AE-7390	148
AE-7205	143	AE-7401	148
AE-7206	143	AE-7402	148
AE-7210	143, 206	AE-7403	148
AE-7211	143	AE-7405	148
AE-7218	143	AE-7407	148
AE-7220	143	AE-7408	148
AE-7222	143	AE-7410	148
AE-7224	143	AE-7430	149
AE-7226	143	AE-7431	149, 194
AE-7228	143	AE-7440	149
AE-7230	143	AE-7441	149
AE-7231	143	AE-7442	149
AE-7232	143	AE-7445	149
AE-7250	144	AE-7446	149
AE-7251	144	AE-7447	149
AE-7270	144	AE-7448	149
AE-7271	144, 197, 202	AE-7449	149
AE - 7272	144	AE-7500	149
AE-7277	144	AE-7501	150
AE-7278	144	AE-7502	150
AE-7279	144	AE-7504	150
AE-7280	144	AE-7505	150
AE-7281	144	AE-7506	150
AE-7282	145, 206	AE-7510	150
AE-7283	145	AE-7511	150
AE-7284	145	AE-7523	151
AE-7285	145	AE-7525	151
AE-7286	145	AE-7530S	151, 197
AE-7287	144, 206	AE-7532	151
AE-7288	145	AE-7534	151
AE-7289	145	AE-7535	151
AE-7290L	145	AE-7540	152
AE-7290R	145	AE-7541	152
AE-7300	146	AE-7600	152
AE-7304	146	AE-7610	152
AE-7305	146	AE-7615	152
AE-7306	146	AE-7620	152, 197

AE-7621 152, 194, 195  
AE-7622A 153  
AE-7624 153  
AE-7625 153  
AE-7626 153  
AE-7627 153  
AE-7628 153  
AE-7629 153, 197  
AE-7630 153, 195  
AE-7631 154  
AE-7632 154  
AE-7633 154  
AE-7634 154  
AE-7635 154  
AE-7636 154, 194  
AE-7637 154  
AE-7638 154  
AE-7639 155  
AE-7642 155, 194  
AE-7643 155, 195, 196  
AE-7646 154  
AE-7647 154  
AE-7648 154  
AE-7649 155  
AE-7650 155  
AE-7651 155  
AE-7652 155  
AE-7653 155  
AE-7654 155, 196  
AE-7658 156  
AE-7659 156  
AE-7660 156  
AE-7710 156  
AE-7720 156  
AE-7725 156  
AE-7735 156  
AE-7736 156  
AE-7750 157  
AE-7751 157  
AE-7800 157  
AE-7801 157  
AE-7802 157, 199  
AE-7803 157, 198  
AE-7806 157, 199  
AE-7821 158, 198  
AE-7822 158, 198  
AE-7823 158, 198  
AE-7824 158, 198  
AE-7900 158  
AE-7901 158, 204  
AE-7902 158  
AE-7903 158, 204  
AE-7905 158  
AE-7930 159  
AE-7930S 159

AE-7931 159, 204  
AE-7931S 159  
AE-7950 159  
AE-7951 159  
AE-7952 159  
AE-7953 159, 204  
AE-7960 159  
AE-7961 159  
AE-7962 159  
AE-7970 159  
AE-7976 159  
AE-7977 159  
AE-7978 159  
AE-7979 159

## AE7

AE7-0029 161, 194, 196  
AE7-0030 161  
AE7-0031 161  
AE7-0032 161  
AE7-0033 161  
AE7-0034 161  
AE7-0038 161  
AE7-0061 162  
AE7-0068 162  
AE7-0105 162  
AE7-0106 162  
AE7-0108 162  
AE7-0110 162  
AE7-0115 163  
AE7-0116 163  
AE7-0117 163  
AE7-0118 163  
AE7-0119 163  
AE7-0120 163  
AE7-0207 163  
AE7-0208 163, 195  
AE7-0217 163  
AE7-0218 163, 195  
AE7-3000 164  
AE7-3010 164  
AE7-3020F 164  
AE7-3028F 164  
AE7-3028FB 164  
AE7-3030 164  
AE7-3032 164  
AE7-3034 164  
AE7-3050 165  
AE7-3051 165  
AE7-3052 165, 194  
AE7-3060 165  
AE7-3060S 165  
AE7-3061 165  
AE7-3061S 165

AE7-3062 165, 194, 196  
AE7-3062S 165  
AE7-4050 165  
AE7-4051 165

## **AE - 8000**

AE-8000 167, 207  
AE-8001 167  
AE-8002 167, 201, 202, 203, 204  
AE-8003 167  
AE-8005 167  
AE-8090 170, 204  
AE-8100 173  
AE-8101 173  
AE-8104 170  
AE-8108 173  
AE-8111 173  
AE-8114 170, 201  
AE-8115 173  
AE-8116 173  
AE-8117 173  
AE-8121 170, 195  
AE-8122 170  
AE-8122A 170  
AE-8124 175  
AE-8125 175  
AE-8126 175  
AE-8131 170, 195, 196, 202  
AE-8132 178  
AE-8133 178, 200, 201, 205  
AE-8134 175  
AE-8135 175  
AE-8136 175  
AE-8137 175  
AE-8139 175  
AE-8140 181  
AE-8142 181  
AE-8144 181  
AE-8145 176  
AE-8146 176  
AE-8147S 171  
AE-8148 180  
AE-8149 171  
AE-8157 171  
AE-8158 177  
AE-8159 177  
AE-8160 174  
AE-8161 171  
AE-8162 174  
AE-8164 174  
AE-8165 174  
AE-8170 175  
AE-8171 175  
AE-8172 175  
AE-8173 176

AE-8177 175  
AE-8180 179  
AE-8185 179  
AE-8186 171  
AE-8187 171  
AE-8189 179  
AE-8190 172, 195, 196  
AE-8191 179  
AE-8192 172  
AE-8193 179  
AE-8194 172  
AE-8194A 172  
AE-8195 177  
AE-8196 172  
AE-8198 176  
AE-8199 176  
AE-8200 169  
AE-8200H 169  
AE-8201 169  
AE-8201 H 169  
AE-8202 169  
AE-8202H 169  
AE-8203H 169  
AE-8204H 169  
AE-8205 169, 202  
AE-8205C 169  
AE-8205H 169  
AE-8206 169  
AE-8206C 169  
AE-8206H 169  
AE-8207 169  
AE-8207C 169  
AE-8207H 169  
AE-8208 169  
AE-8208C 169  
AE-8208H 169  
AE-8209C 169  
AE-8209H 169  
AE-8210H 169  
AE-8211 169  
AE-8211 H 169  
AE-8212 169  
AE-8212H 169  
AE-8219 169  
AE-8250 167  
AE-8251 167  
AE-8252 167  
AE-8253 167  
AE-8302 167  
AE-8304 167  
AE-8305 168, 201  
AE-8307 168  
AE-8308 168  
AE-8309 168  
AE-8310 168

## AE - 9000

AE-9036SP 182  
AE-9045SP 182  
AE-9063CSP 182, 194, 196

## AS

AS-1583N 188, 200, 206  
AS-1584N 188  
AS-7000 184  
AS-7001 184  
AS-7001L 184  
AS-7067 184  
AS-7068 184  
AS-7069 184  
AS-7070 184  
AS-7071 184  
AS-7075 184  
AS-7100 184  
AS-7152 184  
AS-7152S 184  
AS-7153S 184  
AS-7154 184  
AS-7154S 184  
AS-7155S 184  
AS-7200 185  
AS-7208 185  
AS-7209 185  
AS-7282 185  
AS-7284 185  
AS-7288 185  
AS-7330 185  
AS-7330R 185  
AS-7430 186  
AS-7431 186  
AS-7539 186  
AS-7626 186  
AS-7627 186  
AS-7628 186  
AS-7629 186  
AS-7630 186  
AS-7631 186  
AS-7636 187  
AS-7900 187  
AS-7901 187  
AS-8010A 189  
AS-8010AH 189  
AS-8011 189  
AS-8011AH 189  
AS-8012AH 189  
AS-8102AH 189  
AS-8312 196

AS-9300 188

## AST

AST21 191  
AST21L 191  
AST21S 191  
AST22 191  
AST28 191  
AST28L 191  
AST28M 191, 192  
AST34 191  
AST34I 191  
AST35 192  
AST54 192  
AST54L 192  
AST54M 192  
AST57 192  
AST57IT 192  
AST57ITM 192  
AST57L 192  
AST58 192

## A

Advancut. *See* Advanced Cutting Technology  
ADVANCUT 194, 195  
Agrikola Lacrimal Sac Retractor 17  
Aguilar Chopper 53  
Aguilar Prechopper 92  
Aguilar Sustainer 51  
Ahn DMEK Cannula 140  
Ahn DMEK Rake 39  
Air Injection Cannula 197, 201, 202, 204, 207  
Air Injection (Rycroft) Cannula 140, 184  
Akahoshi 1-Prong Speculum with Square Lock 8  
    For Deep Set Eyes 8  
Akahoshi 3-Prong Cataract Speculum 7  
Akahoshi 3-Prong Speculum with Square Lock 8  
    For Deep Set Eyes 8  
Akahoshi Acrylic Implant Forceps 99  
Akahoshi Acrylic IOL Loading Forceps 98  
Akahoshi Ball I/A Tip 165  
Akahoshi Capsulorrhexis Cross-Action Forceps 105  
Akahoshi Combo II Prechopper 91  
Akahoshi Combo Prechopper 101  
Akahoshi Conjunctiva Irrigator 140  
Akahoshi Hybrid Combo Prechopper 101  
Akahoshi Hydrodissection Cannula 154  
Akahoshi Hydrodissection Cannula II 154, 187  
Akahoshi IOL Scissors 128  
Akahoshi Micro Diamond Knife 171  
Akahoshi Micro Incision Capsulorrhexis Forceps 105  
Akahoshi Micro Incision Prechopper 101  
Akahoshi Micro Phaco Sleeve Punch 168  
Akahoshi Mini Sandblasted I/A Tip 165

- Akahoshi Multi-Use Manipulator Cannula 156
  - Akahoshi Nano Diamond Knife 172
  - Akahoshi Nucleus Cross-Action Forceps 104
  - Akahoshi Nucleus Manipulator 47
  - Akahoshi Nucleus Manipulator (Myopic eye) 47
  - Akahoshi Nucleus Ring Sustainer 49
  - Akahoshi Nucleus Sustainer 46
  - Akahoshi Paddle Prechopper 101
  - Akahoshi Phaco Sleeve Punch 168
  - Akahoshi Scrubbing Forceps 117
  - Akahoshi Sideport II Diamond Knife 170
  - Akahoshi Standard Diamond Knife 171
  - Akahoshi Sub II Sideport Diamond Knife 170
  - Akahoshi Super Combo III Prechopper 91
  - Akahoshi Super Micro Prechopper 102
  - Akahoshi-Tija Capsulorrhexis Forceps w/Round Handle & Laser Lines
    - Straight Jaws 105
    - Vaulted Jaws 105
  - Akahoshi Ultra Diamond Knife 172
  - Akahoshi Universal Forceps 91
  - Akahoshi Universal II Prechopper 92
  - Akahoshi Universal Nucleus Splitter/Separator 102
  - Akahoshi Universal Prechopper 101
  - Akahoshi Visco Dissection Cannula 150
  - Akahoshi Visco ICG Cannula 144
  - Akahoshi-Wahab Pars Planar Nucleus Levitator 55
  - Aker IOL Pusher 40
  - Akura LRI Marker 67
  - Algerbrush 207
  - Algerbrush Corneal Rust Ring Remover 81
  - Algerbrush II Pterygium 82
  - Alia LASIK Spatula 68
  - Alio Iridectomy Forceps, Curved Shaft 121
  - Alio LASIK Forceps 106
  - Alio LASIK Irrigation Cannula 145
  - Alio LASIK Marker 65
  - Alio LASIK Speculum 14
  - Anis Corneal Forceps 86
  - Anis Cortex Aspirating Cannula 148
  - Anis Irrigating Vectis 152
  - Anis-Kuglen Irrigating Lens Manipulator 156
  - Anis Lens Holding Forceps 92
  - Anis Scrubber 152
  - Anis Suture Placement Marker 60
  - Anis Tying Forceps 109
  - Anterior Chamber Cannula 206
  - Arbelaez LASIK Spatula 68
  - Arnold AK Marker 73
  - Arnold Guarded Speculum 14
  - Arruga Capsule Forceps 113
  - Asami Chopper 54
  - ASICO Acrylic IOL Implantation Forceps 100
  - ASICO Beveled Degree Gauge without Teeth 24
  - ASICO Beveled Degree Gauge with Teeth 24
  - ASICO CCC Double Ended Marker 57
  - ASICO Cilia Forceps with Fine Tips 114
  - ASICO Cleaning I/A Hand Piece 161
  - ASICO Conjunctiva Scissors 129
  - ASICO Conjunctiva Scissors II 129
  - ASICO Direct Action Folding Forceps 99
  - ASICO Direct Action Implantation Forceps 99
  - ASICO Double Footplate LRI Diamond Knife 170
  - ASICO Double Male Adaptor 148
  - ASICO Dual Micrometer LRI Diamond Knife 172
  - ASICO Electronic One-Step Toric Marker 78
  - ASICO Electronic Pre-op Toric Marker 77
  - ASICO Electronic Pre-op Toric Ref Marker 77
  - ASICO Electronic Toric Head 77
  - ASICO FREEHAND DIAMOND KNIFE WITH INTERCHANGEABLE BLADES 173
  - ASICO Haptic Holding Forceps 97
  - ASICO I/A Handpiece 161
    - Angled Tip 161
    - Curved Tip 161
    - Straight Tip 161
  - ASICO INSTRUMENT SETS 193
  - ASICO IOL Haptic Amputator 102
  - ASICO IV Foldable IOL Forceps 99
  - ASICO Jeweler's Forceps 116, 117
  - ASICO Lens Holding Forceps 93
  - ASICO Male/Female Handpiece 148
  - ASICO Needle Holder 137
  - ASICO One Step Electronic Toric Marker 78
  - ASICO Royale III Cleaning Injector 182
  - ASICO Royale III Injector 182
  - ASICO Royale II Unihand Spring Injector 182
  - ASICO Tooth Forceps 0.12 mm with Platform 87
  - ASICO Triple Ring Marker 60
  - ASICO Tying Forceps with Fine Platform 108
  - ASICO-Vannas Scissors 128
  - ASICO-Vannas Scissors 129
  - Aspirating Cannula 197, 202
  - Aspirating Handpiece 195
  - Aspirating Speculum 195, 197, 206
  - Aspirating tips for Duo Max aspirating handle 164
  - Atkinson Retrobulbar Needle 141, 184
- B**
- Baby Jones Towel Clamp 117
  - Back Flush Handle 204
  - Back Flush Needle 204
  - Bahr- Maltzman Hook 36
  - Baird Chalazion Forceps 115
  - Ball I/A Tip 194
  - Bansal-Koch Nasal Cataract Wire Speculum 5
  - Bansal LASIK Irrigation Cannula 144
  - Bansal LASIK Marker 65
  - Bansal Nasal LASIK Wire Speculum 5
  - Barraquer Cilia Forceps 114
  - Barraquer Corneal Section 124



Barraquer Heavy Wire Speculum 4  
 Barraquer Iris Spatula 30  
 Barraquer Lenticular Spoon 52  
 Barraquer Needle Holder 136, 137  
 Barraquer Solid Blade Wire Speculum 4  
 Barraquer Wire Speculum 4  
 Batlle ICL® Manipulator 41  
 Bechert Nucleus Rotator 43  
 Beehler Irrigating Pupil Expander 37  
 Berkeley- Thornton Double-Ended Optic Zone Marker 56  
 Berke Ptosis Forceps 111  
 Beveled Degree Gauge 200  
 Big Bubble Cannula 198  
 Big Bubble Spatula 198  
 Bimanual Aspirating Hand Piece 163  
 Bimanual I/A Hand Piece 162, 163  
 Bimanual Irrigating Hand Piece 162  
 Bimanual Micro Aspirating Hand Piece 163  
 Bimanual Micro Irrigating Hand Piece 163  
 Binkhorst Irrigating Cannula 143  
 Bishop- Harmon Dressing Forceps 88  
 Bishop- Harmon Irrigating Cannula 185  
 Bishop-Harmon Irrigating Cannula 142  
 Bishop-Harmon Tissue Forceps 88  
 Blade Breaker 207  
 Blade Handle 201, 202, 203, 204, 207  
 BLADE HOLDER 172  
 Bohr MemoryLens® Forceps 96  
 Bonaccolto Utility Forceps 113  
 Bonn Forceps 87  
 Bonn Micro Iris Hook 32  
 Bores Corneal Fixation Forceps 89  
 Bores Incision Spreading Forceps 89  
 Borroquer Iris Scissors 127  
 Bowman Lacrimal Probe 25  
 Bunge Evisceration Spoon 53  
 Buratto Acrylic IOL Implantation Forceps 100  
 Buratto Bi-Manual Aspiration Handpiece 163  
 Buratto  
 Bi-Manual Irrigation Handpiece 162  
 Buratto Flap Retractor & Protector 68  
 Buratto Hydrodissection Cannula 152  
 Buratto II Acrylic IOL Implantation Forceps 100  
 Buratto III Extra Fine Acrylic Implant Forceps 100  
 Buratto LASIK Forceps 107  
 Buratto LASIK Irrigating Cannula 185  
 Buratto LASIK Irrigation Cannula 145  
 Buratto Striae Probe 71  
 Buratto Subtenon Needle 141  
 Buratto Superior Flap Holder 67  
 Burch Scleral Fixation Pick 34

## C

Caliper 194, 195, 197, 201, 202, 203, 204, 205, 207  
 Calipers/ Markers 20  
 Cannula 206

CANNULAS 140, 141, 142, 143, 144, 146, 147, 149, 150, 151, 152,  
 153, 154, 156, 157, 159  
 Capsule Polisher Cannula 197  
 Capsulorrhexis Forceps 194, 195, 196, 197  
 Capsulotomy Scissors 194, 195, 197  
 Carones PRK Dispenser 76  
 Cartridge Forceps 205  
 Castro Suturing Forceps, 0.3 mm 103  
 Castroviejo Blade Breaker & Holder 81  
 Castroviejo Caliper 19  
   Curved 19  
   Straight 19  
 Castroviejo-Colibri Forceps 86  
 Castroviejo Corneal Section 124  
 Castroviejo Cyclodialysis Spatula 31  
 Castroviejo Keratoplasty Scissors 125  
 Castroviejo Lacrimal Dilator 26  
 Castroviejo Needle Holder 137, 138  
 Castroviejo Speculum 14  
 Castroviejo Suturing Forceps 103  
 Castroviejo Synechia Spatula 31  
 Castroviejo Universal Corneal Scissors 125  
 Catalana Lacrimal Intubation Set 26  
 Cataract Clear Corneal Set 195  
 Cataract Phaco Set 194  
 Chalazion 207  
 Chalazion Curette 207  
 Chalazion Forceps 202  
 Chamber Maintainer 199  
 Chang DUO Quick Chopper 54  
 Chang Hydrodissection Cannula 154  
 Chee Subluxated IOL Grasping Forceps 118  
 Chee Suture Retrieving Hook 35  
 Chihara ILM Pick 78  
 Choppers/ Lens Loop 50  
 Choppers/ Lens Loop/Spoon 52  
 CHOPPERS, MANIPULATORS, SPOONS 53  
 Chopper + Spatula 194, 195  
 Choppers/Spoon 54  
 Choppers/Sustainer/Dissector 49  
 Christenbury LASIK Marker 66  
 Chuck Handle 167  
 Chuck Handle/ Diamond Knives 167  
 Cilia Forceps 207  
 Cleaning I/A Handle 194  
 CLEANING I/A Handpiece, BIMANUAL I/A HANDPIECES 161  
 Clear Cornea Diamond Knife 195  
 CLEAR CORNEAL DIAMOND KNIVES - LASER PRECISE 175  
 Clearpath Diamond Knife 177  
 Colibri forceps 207  
 Colibri Forceps 84, 206  
 Compression Disc 198  
 Conjunctiva Forceps 201  
 Conjunctiva Scissors 194  
 Cook Speculum

Child 14  
 Infant 14  
 Large 14  
 Cornea Gauge 205  
 Corneal Forceps 197, 202  
 Corneal Rust Ring Remover 82  
 Corneal Scissors 202  
 Corneal Section Scissors 194, 197  
 Corneal Set 202  
 Corneal Trephine Blades, Handles, and Cross Hair Markers 169  
 Cortex Extractor 194  
 Crandall Capsulorrhexis Incision Gauges 23  
 Crandall-Nagahara Chopper 54  
 Crandall USC Glaucoma Marker 21  
 Crandall USC Glaucoma Scleral Planer 42  
 Crandall USC Glaucoma Scleral Shaver 42  
 Crawford Lacrimal Intubation Set 26  
 Crawford lacrimal intubation set 26  
 Culler Lens Spoon 52  
 Cu mming Silicone IOL Folder 98  
 Curette 202  
 Curved Scissors 203  
 Curved Vitreous Scissors 204  
 Cyclodialysis Spatula 197, 201, 202

## D

DALK Sets 198  
 DeBlasio LASIK Marker 67  
 Degree Gauge/Spatula 61  
 Dell Fixation Ring 33  
 DEPRESSORS 27  
 Descemet Stripper 199  
 Desmarres Chalazion Forceps 115  
 Desmarres Lid Retractor  
   Size 0 18  
   Size 1 18  
   Size 2 18  
   Size 3 18  
 Dextome Spatula 199  
 Diamond Knife 196, 202, 205  
 Diamond Knife Sterilization Tray 191  
 Diamond Knives 168, 169  
 DIAMOND KNIVES 173, 174, 175, 176, 177, 178, 179, 180, 181  
 Diamond Knives/Punches 170  
 Dietz ICL Slider/Irrigating Cannula 150  
 DILATOR 26  
 Dillman Hook 34  
 Dishier LASIK Irrigation Cannula 144  
 Disposable Blade 194, 195, 196  
 Disposable Injector System 188  
 Disposable Micro Tip Marking Pen 188  
 Disposable Regular Tip Marking Pen 188  
 DMEK Cannula 199  
 DMEK Set 199  
 Doane-Slade LASIK Irrigation Cannula 145  
 Donor Adjuster 199

Donor Insertion Forceps 199  
 Double Edge Cystotome 142  
 Double Hook IOL Manipulator & Iris Retractor 36  
 Dressing Forceps 88, 194, 202, 203, 204  
 Drews-Knolle Irrigating Vectis 152  
 Drews Posterior Capsule Polisher 149  
 DSAEK Set 199  
 Dual Micrometer 179  
 Dual-Micrometer Knife 179  
 Dual Port Hydro Cannula 194, 195  
 Duo Max Aspirating Handle 164  
 Duo Max Aspirating Tip 164  
 Duo Max Aspirating Tip w/Capsule Polisher 164  
 Duo Max I/A Handle and Tips 164  
 Duo Max Irrigating Handle 164  
 Duo Max Irrigating Tip 164  
 Duo Max Nagahara Irrigating Chopper Tip 164  
 Duo Max Tsuneoka Irrigating Chopper Tip 164  
 Duo Max Tsuneoka Irrigating Chopper Tip, with bottom hole 164

## E

ECCE Set 197  
 Electronic Toric Marker/ Centering Device 78  
 Elliot Scleral Trephine 167  
 Elschmig Fixation Forceps 89  
 End Gripping Forceps 204  
 Enucleation Scissors 134  
 Erhardt Lid Forceps 114  
 Escaf Nucleus Divider 52  
 Escaf Nucleus Manipulator 51  
 Escaf Nucleus Sustainer 51  
 Escaf Prechopper 103  
 Espaillet- Deblasio Nucleus Rotator 42  
 Espiritu-Caparas Chopper 54  
 Eye Scissors 133, 202, 204

## F

Faulkner II Lens Inserting Forceps 97  
 Faulkner Lens Holding Forceps 97  
 Feldstein blepharostat 19  
 Femtosecond Cataract Set 196  
 Fenzl Hook, Angled 36  
 Fine End Gripping Forceps 204  
 Fine-Ikeda Micro Capsulorrhexis Forceps, Short 110  
 Fine-Thornton Fixation Ring 34  
 Fish IOL Forceps 93  
 Fixation Device 194, 206  
 Fixation Forceps 200, 202, 203, 204  
 Fixation Hook 199  
 Fixation Hook Large 34  
 Fixation Hook Small 34  
 Fixation Ring 195, 201, 202  
 FIXED ANGLE CLEAR CORNEAL DIAMOND KNIVES 175  
 Flat Degree Gauge 200  
 Flieringa Scleral Fixation Ring 19

Fonseka Chopper 53  
Forceps 206  
FORCEPS 84, 85, 86, 87, 88, 89, 90, 93, 94, 95, 96, 97, 98, 99,  
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111,  
112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122  
Francis Chalazion Forceps 115  
Friedman-Koch Universal Chopper & Spatula 46  
Friedman Phaco Manipulator 46  
Fry Iris Spatula 30  
Fry Irrigating Cannula 142  
Fugo Hook 36  
Fujita Capsulorrhesis Forceps 112  
Fukuyama 3-Step LRI Diamond Knife 172  
Fukuyama Fixation Ring 60  
Fukuyama LRI Diamond Knife 172  
Fukuyama LRI Marker 69  
Fukuyama LRI Marker (60°) 66

## G

Galand Incision Marker 20  
Gaskin Fragment Forceps 110  
Gass Retinal Detachment Hook 32  
Gauge 200, 205  
GAUGES 23, 24  
Gauges/Probes 25  
Gill-Colibri Forceps 84  
Gill Corneal Knife 80  
Gill Curved Iris Forceps 84  
Gills Cortex Extractor 148  
Gills Irrigating-Aspirating Cannula 146  
Gills-Welsh Irrigating-Aspirating Cannula 146  
Gills-Welsh Lens Loop & Probe 53  
Girard Corneal Scleral Forceps 104  
Girard-Swan Knife Needle 80  
Girard Synechia Spatula 31  
Glaucoma Punch 201  
Glaucoma Set 201  
Glider 199  
Golf Club Foreign Body Spud 80  
Graefe Cystotome Knife 80  
Graefe Fixation Forceps 89  
Graefe Muscle Hook 31  
Graether Degree Gauge 25  
Graether Half Circle Axis Marker 64  
Graether Iris Retractor and Polisher 150  
Graether Iris Retractor/Collar Button  
Angled 18  
Straight 18  
Graether Pupil Expander Forceps 114  
Graether Side Port Manipulator 43  
Grandon Irrigating-Aspirating Cannula 146  
Grandon Rotatable Radial Marker & Degree Gauge 62  
Grandon T-Marker 57  
Grasping Forceps 203  
Green Fixation Forceps 90  
Green Muscle Hook 32

Greene B-DORK Probe 62  
Greene LASIK Speculum 13  
Greene Visual Axis Marker 59  
Guell Lasik Cannula 185  
Guell LASIK Forceps 106  
Guell LASIK Irrigation Cannula 145  
Guell LASIK Retreatment Spatula 62  
Güell LASIK Speculum 13  
Guyton-Park Speculum  
Solid blades 16

## H

Halsted Mosquito Forceps 117  
Harms-Colibri Corneal Forceps 84  
Harms Trabeculotomy Probe with Guide  
Left 25  
Right 25  
Harms Tying Forceps 106  
Harris-Sinsky IOL Manipulating Hook 36  
Harry-Yamada Phaco Chopper 49  
Hartmann Mosquito Forceps 117  
Hata-Miyoshi Aspirating Speculum 14  
Hersh LASIK Retreatment Spatula 62  
Herzig Elevator & Retreatment Spatula 70  
Herzig LASIK Depressor 71  
Heslin Infusion Cannula 157  
Hessburg IOL Pusher 40  
Hill Prechopper 92  
Hirschman Iris Hook 32  
Hirschman Lens Holding Forceps 93  
Hoffer-McPherson Forceps 87  
Hoffer Optic Zone Marker 55  
Hoffer-Stern Capsulotomy Scissors 128  
Hoffman Buratto LASIK Marker 67  
Hoffman Irrigating Vectis 152  
Hofmann Thornton Globe Fixation Ring 60  
Holladay-Godwin Cornea Gauge 23  
Holladay-Godwin Pupil Gauge 22  
Holladay Intralase® Double Cross Hair Centering Device 78  
Holladay Retreat LASIK Spatula 69  
Hook 205  
Hook/Manipulator 200  
HOOKS 32, 34  
Hooks/Fixation Rings 33, 35  
Horio ILM/Subretinal Scissors 131  
Horizontal Chopper/Manipulator 196  
Horizontal Prechopper 195, 196, 197  
Hunkeler Frown Marker 21  
Hunkeler Internal Caliper 23  
Hunt Chalazion Forceps 115  
Hydrodissection Cannula 196  
Hydrodissection Cannula 194, 195, 196, 197

## I

I/A Cannula 197

I/A Handle 196  
 I/A Tip 196  
 Ichikawa Double Ended ICL Manipulator 41  
 ICMS Needle Holder 137  
 ICMS Set 203  
 ICMSTM Needle Holder 138  
 ICMSTM Scissors, Curved 131  
 ICMSTM Tying Forceps 118  
     Curved Shaft 118  
     Straight Shaft 118  
 Ikeda Micro Capsulorrhexis Forceps 109  
 Ikeda-Nozomi Capsulorrhexis Forceps 112  
 Ikeda Nozomi Capsulorrhexis Forceps w/ Short Shaft & Handle 112  
 Ikeda Super Micro Capsulorrhexis Forceps 109  
 Implantable Contact Lens Set 205  
 Inamura Capsulorrhexis Forceps 110  
 Inamura Chopper 48  
 Inamura Eagle Prechopper 103  
 Inamura Hydrodissection Cannula 154, 155  
 Inamura II Hydrodissection Cannula 155  
 Inamura Soft Nucleus Prechopper 91  
 Inamura Super III Capsulorrhexis Forceps 105  
 Incision Gauge 195  
 Infant Lacrimal Dilator  
     Silver 26  
     Stainless Steel 26  
 Infant Wire Speculum 6  
 Infusion Cannula 159  
 Injector 194, 196  
 Inter-Tip Flush Kit 162  
 Intra-Op Toric Axis Marker 200  
 Intra-Op Toric Axis Marker II 64  
 Iori Phaco Easy Cutter 50  
 Iridectomy Forceps 205  
 Iridectomy Scissors 205  
 Iris Forceps 194, 201  
 Iris Hook 194, 197  
 Iris Scissors 126, 133, 194, 197, 201  
 Iris Spatula 30  
 Irrigating-Aspirating Handpiece 148  
 Irrigating Cannula 194, 197, 201, 202, 203, 204  
 Irrigating Cystotome 184  
 Irrigating Handpiece 195  
 Irrigating tips for Duo Max irrigating handle 164  
 Irrigating Vectis Cannula 197

## J

Jaeger Stainless Steel Lid Plate 18  
 Jaffe Aspirating Wire Speculum  
     Large 15  
 Jaffe-Bechert Nucleus Rotator 43  
 Jaffe IOL Manipulator 37  
 Jaffe IOL Spatula 38  
 Jaffe Tying Forceps 106  
 Jaffe Wire Speculum (Lid Retractor) 15

    Large (pair) 15  
     Small (pair) 15  
 Jameson Caliper 22  
 Jameson Muscle Forceps 112  
 Jameson Muscle Hook 31  
 Jarstad Marker 21  
 Jensen Posterior Capsule Polisher 151  
 Jeweler's Forceps 207  
 Jeweler's Forceps 207  
 John ALK Cannula 158  
 John ALK Compression Disc 76  
 John ALK Marker 72  
 John ALK Narrow Stromal Spatula 75  
 John ALK Pre-Descemet's Spatula 75  
 John ALK Probe 158  
 John ALK Scissors 132  
 John Dalk Set 198  
 John Dextome DMEK/DSAEK Spatula 74  
 John DMEK Cannula 140  
 John DMEK Large Crystal Spatula 39  
 John DMEK Small Crystal Spatula 39  
 John DMEK Twin Block 24  
 John DXEK/DSAEK Descemet's Stripper 74  
 John DXEK/DSAEK Double Ended Marker 8/9 mm 56  
 John DXEK/DSAEK Fixation Hook 33  
 John DXEK/DSAEK Glider 75  
 John DXEK/DSAEK Stromal Scrubber 74  
 John DXEK Inserting Forceps 95  
 John Retrocorneal Super Micro Forceps 120  
 Johnson Spatula 44  
 Josephberg-Hilton Trocar Fixation Plate 77  
 J-Shaped Cannula 185  
 J-Shaped Hydrodissection Cannula 186  
 J-Shaped Hydrodissection Cannula 153

## K

Kalt Needle Holder - AE-6300 138  
 Kammann Prechopper 46  
 Kansas Lens Loop 52  
 Kansas Linear Marker 21  
 Kansas Nucleus Fragment Forceps 111  
 Kansas Nucleus Vectis 55  
 Kansas Phacosection Nucleus Trisector 55  
 Kansas Phacosection SM Nucleus Bisector 55  
 Kawai Capsulorrhexis Forceps 110, 112  
 Kawai Horizontal Scissors 132  
 Kawai ILM Forceps 121  
 Kawai Sub Retinal Forceps 122  
 Kellan Blade Collet 167  
 Kellan Capsulorrhexis Forceps 111  
 Kellan Clear Cornea Blade 189  
 Kellan Endocapsular IOL Insertion Forceps 94  
 Kellan Fixation Forceps 90  
 Kellan Foldable IOL Forceps 99  
 Kellan Hydrodelineation Cannula 153, 186  
 Kellan Hydrodissection Cannula 186

Kellan Hydrodissection Cannula 153  
 Kellan Nucleus Segmentor 44  
 Kellan Sutureless Incision Blade 189  
 Kelly Descemet's Membrane Punch 167  
 Kelman Cyclodialysis Cannula 141  
 Kelman Cystotome 184  
 Kelman Cystotome Cannula 141  
 Kelman Double Blade Cystotome 140  
 Kelman Irrigating Cystotome 141  
 Kelman Lens Holding Forceps 94  
 Kelman-McPherson Forceps 87, 108  
 Keratometer 194, 195, 200, 202, 207  
 Kimura Platinum Spatula 38  
 Kirby Lens Loop & Muscle Hook 53  
 Kitahara Rotatable Glaucoma Punch 167  
 Knapp Lacrimal Sac Retractor 18  
 KNIVES 80  
 Knives/Blade Breakers 81  
 Knolle Anterior Chamber Cannula 143  
 Knolle Iris Hook 32  
 Knolle- Pearce Irrigating Vectis 152  
 Kobayashi Busin DSAEK Glide 39  
 Kobayashi Chalasis Forceps 107  
 Kobayashi Chalasis Forceps, Small 107  
 Kobayashi DMEK Cannula 140  
 Kobayashi DSAEK Chamber Maintainer 157  
 Kobayashi DSAEK Donor Adjustor, Curved 157  
 Kobayashi DSAEK Interface Fluid Drainage Spatula 75  
 Kobayashi DSAEK Marker 74  
 Kobayashi DSAEK Scleral Marker 72, 73  
 Kobayashi-Tan DSAEK Forceps 94  
 Koch Double Footplate LRI Diamond Knife 170  
 Koch Endocapsular Punch 168  
 Koch II Phaco Manipulator 43  
 Koch LRI Axis Marker 73  
 Koch LRI Marker 66  
 Koch LRI Marker II 66  
 Koch-Minami Chopper 47  
 Koch-Nagahara Spatula & Chopper 45  
 Koch Phaco Manipulator & Splitter 43  
 Koch Sideport Forceps 90  
 Kraff Corneal Forceps 104  
 Kraff Hyperopic Fixation Ring 33  
 Kraff Intralase® Centering Device 78  
 Kraff Lens Holding Forceps 95  
 Kraff- Lovisolo ICL® Viscoelastic Manipulator 150  
 Kraff LRH\* Tying Forceps 109  
 Kraff nasal LASIK Speculum, Heavy 10  
 Kraff Nasal Solid Blade Speculum, Heavy 12  
 Kraff Nasal Wire Speculum 10  
 Kraff Nucleus Splitter 100  
 Kraff Posterior Capsule Polishing Curette 151  
 Kraff Solid Blade Nasal Speculum 12  
     Temporal Speculum 12  
 Kraff Solid Blade Speculum 12  
 Kraff-Sugita Nasal Adjustable Aspirating Wire Speculum 10

Kraff-Sugita Nasal Adjustable Wire Speculum, Small 10  
 Kraff- Utrata Capsulorrhexis Forceps 111  
 Kraff-Utrata Capsulorrhexis Forceps 110, 114  
 Kraff-Zaldivar LRI Marker 67  
 Kraft Clear Corneal Marker 22  
 Kratz- Barraquer Heavy Wire Speculum 7  
 Kratz-Barraquer Wire Speculum 6  
     With round edge 6  
     With Wings 6  
 Kratz Capsule Polisher 151  
 Kratz Cystotome 142  
 Kratz IOL Manipulator 37  
 Kritzinger Updegraff (KU) LASIK Aspiration Cannula 145  
 Kritzinger-Updegraff (KU) LASIK Flap Elevator & Manipulator 70  
 Kritzinger-Updegraff (KU) LASIK Irrigation Cannula 145  
 Kuglen Iris Hook & IOL Manipulator  
     Angled 37  
     Straight 37  
 Kuglen Irrigating Lens Manipulator 156  
 Kurosaka Fixation ring 36  
 Kurosaka Fixation Ring 35  
 Kusaka Non Trocar Vertical Scissors 131

## L

Lacrimal Cannula 140, 207  
 Lacrimal Dialator 207  
 Lacrimal Intubation Set 207  
 Lacrimal Probes 207  
 Lambert Chalazion Forceps 115  
 Lancaster Temporal Solid Blade Speculum 15  
 Lane Femtosecond Cataract Incisional Spatula 39  
 Lane LASIK Retreatment Spatula 70  
 Lane Quick Chopper 49  
 Large Crystal Spatula 199  
 Large Deep Sterilization Tray 192  
 Large Double Level Sterilization Tray 192  
 Large Lamellar Dissector 198  
 Large Sterilization Tray 192  
 LASIK Emergency Set 206  
 Lasik/ LRI Markers 67  
 Lasik Markers 65  
 LASIK Retreatment Set 206  
 LASIK Sets 206  
 laydes Lens Holding Forceps 93  
 Left DALK Scissors 198  
 Lehmann Intralase® Spatula 69  
 Lens Folder (Acrylic) 194  
 Lens Holding Forceps 200, 205  
 Lens Implantation (Silicone) 194, 195  
 Lens Loop 197  
 Lens Manipulato 194  
 Lens Manipulator 195, 197, 205  
 Lens Removal Forceps 205  
 Lester - Burch Solid Blade Speculum 15  
 Lester Fixation Forceps 90



Lester IOL Pusher  
     Angled 40  
     Straight 40  
 Lester No Hole IOL Manipulator 40  
 Lewicky Hydrodissection Cannula 153  
 Lewis Lens Loop 49  
 Lid Retractor 202, 203  
 Lid Set 202  
 Lieberman Adjustable Aspirating Speculum 9  
 Lieberman Eye Handle Fixation Forceps 90  
 Lieberman Eye Speculum 10  
 Lieberman Lens Forceps 96  
 Lieberman Micro-Finger 45  
 Lieberman Micro-Ring Lens Forceps 96  
 Lieppman Micro Cystotome 142  
 Lindstrom PRK/LASIK Spatula 61  
 Little Malleable Spatula 44  
 Little No Hole IOL Manipulator Straight 37  
 Loading Forceps 205  
 Lordan Chalazion Forceps 115  
 Lovisolo ICL® Cartridge Loading Forceps 98  
 Lovisolo Implantable Contact Lens Removal Forceps 98  
 LRI Diamond Knife 200  
 LRI Marker 200  
 LRI markers 66  
 LRI Set 200  
 Lubeck Horizontal Chopper/Nucleus Sustainer 50

## M

Machat Adjustable Aspirating LASIK Speculum 12  
 Machat- Buratto Aspirating LASIK Speculum 11  
 Machat LASIK Marker 65  
 Machat LASIK Retreatment Spatula 69  
 Machat LASIK Wire Speculum 12  
 Machat PRK Optical Zone Marker 56  
 Machat Superior Flap LASIK Marker 65  
 MacRae Flap Flipper & Retreatment Spatula 62  
 Maloney Astigmatism Axis & Incision Marker 58  
 Maloney Astigmatism Keratometer 58  
 Maloney Enhancement Hook 70  
 Maloney Flap Flipper & Squeegee 68  
 Maloney Incision Marker 58  
 Maloney No Hole IOL Manipulator 40  
 Maloney Nucleus Rotator  
     With Forked Tip 44  
     With Spatulated Tip 44  
 Maloney PRK Spatula 61  
 Maltzman-Fenzl Modified IOL Manipulator 37  
 Manche LASIK Forceps 106  
 Manche LASIK Irrigation Cannula 144  
 Manche LASIK Marker 65  
 Manche LASIK Spatula 70  
 Manche LASIK Speculum 9  
 Mandel Keratometer 58  
 Mandel Nucleus Rotator 44  
 Manhattan Eye & Ear Suturing Forceps 104  
 Manipulating Hook 199  
 www.asico.com

MANIPULATORS 37, 40, 41  
 Manipulators /Pupile Expander 36  
 Marginal Dissector 198  
 Marker 206  
 Markers 57, 58, 59, 63, 73  
 MARKERS 21, 72  
 Markers/Calipers 22  
 Markers/Fixation Rings 60  
 Markers/Spatulas 74  
 Marking Pen 206  
 Marking Pens 200  
 Matos LASIK Marker 67  
 Maumenee- Park  
     Speculum 16  
 Maumenee- Park Speculum  
     Fenestrated blades 16  
     Solid blades 16  
 May Muscle Hook 32  
     With Oblong Hole 32  
 May Scleral Depressor 27  
 Mcintyre Anterior Chamber Cannula 143  
 Mcintyre Fish Hook Needle Holder 138  
 Mcintyre Infusion Handle 148  
 Mcintyre Inner Cannula 147  
 Mcintyre Irrigating Iris Hook 157  
 Mcintyre Lacrimal Cannula 140  
 Mcintyre Truncated Outer Cannula 147  
 McIntyre-Binkhorst Irrigating Cannula 143  
 McPherson Corneal Forceps 87  
 McPherson Discission Knife 81  
 McPherson Needle Holder 136  
 McPherson Solid Blade Speculum 16  
 McPherson Tying Forceps 107, 108  
 McPherson-Vannas Iris Scissors 126  
 McPherson- Westcott Conjunctival Scissors 129  
 McPherson- Westcott Stitch Scissors 129  
 McPherson-Ziegler Knife 80  
 Medium Deep Sterilization Tray 192  
 Medium Double Level Sterilization Tray 191  
 Medium Sterilization Tray 191  
 Memmen Corneoscleral Punch 168  
 Memmen MemoryLens® Forceps 97  
 Mendez Degree Gauge 61  
 Meyerhoefer Curette Chalazion 30  
 Micro CCC Forceps 196  
 Micro Coaxial Set 196  
 Micro Crescent Diamond Knife 170  
 Micro Diamond Knife 201  
 Micro Instrument Sterilization Tray 191  
 Micro Iris Scissors 126  
 Micro Lamellar Dissector 198  
 Milne CK Light Touch Marker 71, 72  
 Minami "M" Hook™ 46  
 MINI & BALL IRRIGATING/ASPRIATING Tips 165  
 Misra Koch LASIK Retreatment Spatula 70  
 Miyajima Adjustable Aspirating Speculum 13

Miyajima Adjustable Speculum (non-aspirating) 13  
 Miyajima LASIK Caliper 73  
 Miyata Axis Marker 59  
 Miyata LRI Marker 73  
 Miyata LRI & Toric Gauge 24  
 Miyata Toric Axis Marker 73  
 Miyoshi Adjustable Small Orbit Speculum 5  
 Miyoshi Aspirating Speculum 5  
 Miyoshi Chopper 48  
 Miyoshi Chopper II 48  
 Miyoshi Sideport Manipulator 42  
 Miyoshi Small Orbit Speculum 5  
 Miyoshi Ultimate 120° Hydrodissection Cannula 155  
 Miyoshi Z LASIK Speculum 6  
 Modi Capsule Polisher 151  
 Modi Low Profile Intra-Op Toric Axis Marker 72  
 Morrison Irrigating-Aspirating Cannula 146  
 Morrison Lens Loop 50  
 Mosquito Forceps 197, 201, 202, 203, 204  
 MULTI-ANGLE CLEAR CORNEAL DIAMOND KNIVES 175  
 MULTI-ANGLE DIAMOND KNIFE 174  
     Double Lancet 174  
     Phaco 174  
     Tri Facet 174  
 MULTI-INCISION DIAMOND KNIVES 178  
 Murdoch LASIK Speculum 15  
 Murdoch-Slade Lasik Speculum 9  
 Muscle Forceps 203, 204  
 Muscle Hook 202, 203, 204  
 Muscle Set 203

## N

Nagahara-Ahn Small Pupil Chopper 50  
 Nagahara Hydrodissection Cannula II 153  
 Nagahara Karate Chopper 47  
 Nagahara Phaco Chopper 45  
 Nagahara Phaco Chopper IV 45  
 Nagahara Tomahawk Chopper 48  
 Nakamura ICL Loading/Removal Forceps 113  
 Naomi Phaco 3D Divider 50  
 Narrow Stromal Spatula 198  
 Nasal Wire Speculum 7  
 Needle Holder 194, 197, 202, 203, 204, 206, 207  
 Needle Holders  
     ICMS Needle Holder 137  
 NEEDLE HOLDERS 136, 137, 138  
 Neuhann Bi-manual Aspiration Handpie 163  
 Neuhann-Mermoud USC Forceps 88  
 Neuhann One Step Toric Marker 64  
 Neuhann USC Glaucoma Forceps 88  
 Neuhann USC Glaucoma Marker 22  
 New Orleans Lens Loop 51  
 Nishi Schlemm's Canal Scissors 132  
 Nishi Tension Ring Forceps/Manipulator 121  
 Nishi Tension Ring II 121  
 Nordan Capsule Elevator 45  
 Nordan Colibri Forceps 85  
 www.asico.com

Nordan Corneal Fixation Forceps 89  
 Nordan Corneal Transplant Scissors 125  
 Nordan Foldable IOL Forceps 99  
 Nordan Mini-Ruiz Marker 57  
 Nordan-Mini-Ruiz Marker 57  
 Nordan Olive tip speculum 9  
 Nordan RK/AK Marker 59  
 Nordan Tying Forceps 107  
 Nordan Unifold IOL Forceps 98  
 Nordan Wound Size Caliper 20  
 Nucleus Chopper 195  
 Nucleus Divider 196  
 Nucleus Fragment Forceps 197  
 Nucleus Hydrodissection Cannula 153, 186  
 Nucleus Rotator 194  
 Nucleus Sustainer 195  
 Nucleus Trisector 197  
 Nucleus Vectis 197  
 Nugent Superior Rectus Forceps 112  
 Nuijts-Lane Pre-op Toric Reference Marker w/Bubble 63  
 Nuijts-Solomon Toric Axis Marker w/Peg 58

## O

Obstbaum IOL Spatula 38  
 Office (Basic) Set 207  
 Oki-Yoshitomi Hydrodissection Cannula 154  
 Olson Phaco Chopper 47  
 One-Hand Toric Marker 200  
 One-Hand Toric Marker, Small Eyes 200  
 Opticians Set 207  
 Osher Incision Caliper 20  
 Osher Irrigating Lens Manipulator 156  
 Osher "V" Hook No Hole IOL Manipulator 41  
 OZ Marker 199, 201  
 OZ markers 56

## P

Packa Back Flush Needle 158  
 Packo Back Flush Handle 159  
 Packo Back Flush Needle 187  
 Packo Conjunctiva Forceps 97  
 Packo Scleral Depressor with Marker 27  
 Pannu-Bansal Aspirating Wire LASIK Speculum 4  
 Pannu- Barraquer Aspirating Wire Speculum 4  
 Pannu-Kratz Barraquer Aspirating Speculum 7  
 Pannu Viscoelastic Aspirating Cannula 147  
 Paracentesis Diamond Knife 195  
 Park Speculum  
     Fenestrated blades 17  
     Solid blades 17  
 Pathfinder 250 Diamond Knife 176  
 Pathfinder 300 Diamond Knife 176  
 Pathfinder 320 Diamond Knife 176  
 Paton Spatula & Spoon 38  
 Paufique Graft Knife 80  
 Peribulbar Needle 184

Perone LASIK Forceps 106  
 Perone LASIK Marker 66  
 Phaco Chopper 194  
 Phaco Choppers 45  
 PHACO MANIPULATORS 42, 43, 44  
 Phaco Manipulators/ Choppers 46, 47, 48  
 Phacosection/OZ markers 55  
 Phaco Slit Blade 189  
 Phakic Lens Set 205  
 Phillips IOL Cutter 102  
 Pierse-Colibri Corneal Forceps 85  
 Pierse Corneal Forceps 85  
 Pineda LASIK Iron 71  
 Piovella MemoryLens® Forceps 96  
 Plug Forceps 204  
 Polack Double Corneal Forceps 85  
 PRECHOPPERS 91, 92  
 Pre-Descemet's Spatula 198  
 Pre-Op + Intra-Op Marker 200  
 Pre-Op Marker 200  
 Pre-Op Toric Marker 200  
 Pre-op Toric Reference Marker 64  
 Pre-op Toric Reference Marker Single Side 64  
 Preset Diamond Knife 201  
 Price Radial Marker 63  
 Price-Sinsky Hook 35  
 Primary LASIK Set 206  
 PRK Set 201  
 Probe/Tracker 198  
 Probst LASIK Tape Spatula 53  
 Ptosis Forceps 202  
 Punches 171  
 Pupil Gauge 206, 207

## R

Radial Incision Marker 59  
 Rake 199  
 Randolph Cyclodialysis Cannula 141  
 Replacement "0" Rings 162  
 Reshmi 12 O'Clock Cortex Removal Cannula 149  
 Reshmi-Gills Flat Olive Tip Cannula 149  
 Retinal Diamond Knife 204  
 Retinal Set 204  
 Retractor/Protector 206  
 RETRACTORS 18  
 Retreatment Spatula 206  
 Right DALK Scissors 198  
 Rubenstein LASIK Irrigation Cannula 144  
 Ruiz Marker 57  
 Ruler 20, 203

## S

Sarnicola Big Bubble Spatula 75  
 Sarnicola DALK Cannula 158

Sarnicola Dalk Set 198  
 Sauer Solid Blade Pediatric Speculum 16  
 Schachar Blepharostats  
   Large 19  
   Small 19  
 Schepens Orbital Retractor 18  
 Schepens Scleral Depressor  
   Large 27  
   Medium 27  
   Small 27  
 Schockett Scleral Depressor 26  
 SCISSORS 124, 125, 127, 129, 130, 131, 132, 133, 134  
 Scleral Depressor 204, 207  
 Scleral Plug Forceps 118  
 Scleral Plugs 159, 204  
 Scleral Shaver/Planer 201  
 Seibel Fine Fixation Ring 33  
 Serrated Vitreous Forceps 204  
 Serrefine 117, 194, 197, 202, 203, 204  
 Shamintha Colibri Chopper 85  
 Sheets Cyclodialysis Cannula 141  
 Shepard Iris Hook 32  
 Shepard Lens Forceps 95  
 Shepard Air Injection Cannula 144  
 Shepard Intraocular Lens Forceps 95  
 Shimowake Nucleus/IOL Scissor, Serrated 127  
 Sideport Diamond Knife 196  
 Sideport Diamond Knife 195  
 Sideport Fixation Knife 170  
 Silicone Bulb 194, 197, 201, 202  
 Silicone Bulb & Adaptor 142  
 Simcoe-Barraquer Wire Speculum 8  
 Simcoe Cortex Extractor 149, 186  
 Simcoe Irrigating-Aspirating Cannula 146, 185  
 Simcoe Nucleus Delivery Cannula 155  
 Simcoe Posterior Capsule Polisher 151  
 Simcoe (Reverse) Irrigating-Aspirating Cannula 147  
 Simcoe Reverse Irrigating-Aspirating Cannula 185  
 Singer Frown Incision Marker 21  
 Single-Port ALK Cannula 198  
 Single Use Blades 188  
 SINGLE USE CANNULAS 184, 185, 186, 187  
 Sinsky II IOL Manipulating Hook  
   Angled 35  
   Straight 35  
 Sinsky Lens Holding Forceps 96  
 Sinsky No Hole IOL Manipulator 35  
 Sinsky Tying Forceps 108  
 Skinny I/A Tip 194  
 Slade Adjustable LASIK Wire Speculum: Aspirating 11  
 Slade Arcuate Marker 63  
 Slade Aspirating LASIK Speculum 11  
 Slade Femtosecond Cannula 155  
 Slade Femtosecond Spatula 39  
 Slade LASIK Irrigating Cannula 185



Slade LASIK Irrigation Cannula 145  
 Slade LASIK Retreatment Spatula 69  
 Slade LASIK Wire Speculum 8, 11  
 Slade Probst LASIK Spatula 68  
 Sleeve Spreader 204  
 Small Crystal Spatula 199  
 Small Sterilization Tray 191  
 Spadafora Memorylens Dialer 41  
 Spatula 196, 199, 201, 206  
 Spatula/Glider 75  
 Spatula/Manipulator 202, 205  
 Spatulas 30, 38, 68  
 SPATULAS 62, 69, 70  
 Spatulas/Glide 39  
 Spatulas/Hooks 31  
 Spatulas/Markers 71  
 Speculum 194, 196, 201, 202, 204, 207  
 SPECULUMS 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 17  
 Spud 207  
 Staar® Cartridge Holder 23  
 Sterilization Trays 190, 191, 192  
 Stern-Gills Capsulotomy Scissors 128  
 Stevenson Lacrimal Retractor 17  
 Stevens Tenotomy Scissors 134  
 Stitch Scissors 133, 194, 197, 201, 204, 207  
 Strabismus Scissors 134  
 Stromal Scrubber 199  
 Suarez Spreader 81  
 Sub Retinal Drainage Needle 204  
 Subtenon Needle 184  
 Sustainer/Manipulator/Dissector 51  
 Suture Marker 198, 202  
 Suture Retrieving Hook 203  
 Suturing Forceps 194, 197, 202, 203, 204, 207  
 Swiss Irrigating-Aspirating Cannula 147

## T

Tanaka Maculorrhexis Forceps 121  
 Tan DALK Cannula 157  
 Tan DALK Scissors 132  
 Tan Dalk Set 198  
 Tan DSAEK Forceps 94  
 Tan Large Lamellar Dissector 49  
 Tan Marginal Dissector 51  
 Tan Micro Lamellar Dissector 49  
 TEE DIAMOND KNIVES 181  
 Tennant IOL Manipulating Hook 38  
 Tennant-Maumenee Colibri Forceps 86  
 Tennant Nucleus Manipulator 44  
 Tennant Tying Forceps 109  
 Tenotomy Scissors 197, 201, 202, 203, 204  
 Terry Capsule Polisher 186  
 The Path Finder 176  
 Thin Vitreous Pick Forceps 204  
 Thornton 360 Arcuate Marker 63  
 Thornton Double Corneal Ruler 63

Thornton Globe Fixation Ring 60  
 Thornton Radial Incision Marker 59  
 Thorpe Caliper 22  
 Thurmond Nucleus Irrigating Cannula & Iris Retractor 156  
 "Tire Tool" Cannula 156  
 Tissue Forceps 88, 194, 197, 201, 202, 203, 204, 206, 207  
 Titanium Economical Ergonomic 181  
 Tjia-Akahoshi Capsulorrhexis Forceps  
   Straight Jaws 104  
   Straight Jaws with Laser Lines 104  
   Vaulted Jaws 104  
 Tolia Lens Forceps 92  
 Tooke Corneal Knife 80  
 Toric Markers 64  
 Toric Set 200  
 Towel Clamp 194, 197, 201, 202  
 Trabeculotomy Probe 201  
 Trepine 202  
 Triple-Port ALK Cannula 198  
 Trokel Hyperopia Conformer 72  
 Troutman Alpha-Chymotrypsin Cannula 141  
 Troutman-Barraquer Iris Spatula 30  
 Troutman - Castroviejo Corneal Section 125  
 Troutman-Castroviejo Corneal Section 124  
 Troutman Needle Holder 137  
 Troutman Superior Rectus Forceps 113  
 Troutman Tying Forceps 111  
 Tsubota DLK Spatula 74  
 Tsuneoka Incision Gauges 23  
 Twin Block 199  
 Twist Hook  
   Left 34  
   Right 34  
 Tying Forceps 194, 197, 201, 202, 203, 204, 206, 207

## U

UNICAT 10-Facet Blade 178  
 UNICAT CLEAR CORNEAL DIAMOND KNIVES 175  
 UNICAT Double Lancet Blade 178  
 Universal Pathfinder Diamond Knife 176  
 Uribe-Stern Capsulotomy Scissors 128  
 USC Marker 201  
 Uy Femtosecond Capsulotomy Forceps 104  
 Uy Femtosecond Lens Fragmentation Combo Manipulator 42

## V

Vannas Capsulotomy Scissors 127  
 Vannas Scissors 201, 206  
 Vertical Chopper 196  
 Vertical Prechopper 195, 196, 197  
 Vertical Vitreous Scissors 204  
 Vidaurri LASIK Forceps 107  
 Vidaurri LASIK Retreatment Spatula 69  
 Villarrubia DSAEK Forceps 93  
 Villasenor-Navarro Temporal Degree Gauge 61

Vinciguerra Corneal Transplant Marker 60  
Vinciguerra LASEK Butterfly Protector 33  
Vinciguerra LASEK Spatula 77  
Vinciguerra PRK Spatula 61  
Viscoelastic Aspiring Cannula 144  
Vitrectomy Knife 81  
Vitreous Pick Forceps 204  
Vitreous Scissors 131  
VRTISTM Arumi Retinal Diamond Knife 170  
VRTISTM Corcostegui Pick Forceps 119  
VRTISTM Curved Scissors 130  
VRTISTM Fine End Gripping Forceps 119  
VRTISTM Horio ILM Spatula 77  
VRTISTM Horio ILM/Subretinal Forceps 120  
VRTISTM ILM Spatula 76  
VRTISTM Kawai ILM Forceps 122  
VRTISTM Kawai Pick Forceps 120  
VRTISTM Kusaka Vertical Scissors 130  
VRTISTM Ohji Angled Horizontal Scissors 130  
VRTISTM Pick and Peel Forceps 120  
VRTISTM Serrated Forceps 119  
VRTISTM Tanaka Maculorhexis Trocar Forceps 118  
VRTISTM Tano Asymmetrical Forceps 118  
VRTISTM Thin Corcostegui Pick Forceps 119  
VRTISTM Thin Fine End-Gripping Forceps 119  
VRTISTM Vertical Scissors 130  
Vukich ICL® Forceps 94  
Vukich ICL®/Toric Lens Manipulator 48

## W

Watzke Sleeve Spreader 118  
Weiss-Benslimane Lipostructure Triple Port Micro Cannulas 159  
Wells Enucleation Spoon 54  
Welsh Flat Olive Tip Cannula 149  
Westcott Tenotomy Scissors 129  
Westcott-Type Stitch Scissors 130  
Wheeler Spatula 38  
Whitten LASIK Fixation Ring 33  
Whitten LASIK Tool 62  
Wies Chalazion Forceps 116  
Wilder Cystotome 81  
Wilder Lacrimal Dilator  
    Long Taper 26  
    Medium Taper 26  
    Short taper 26  
Wilder Lens Loop 52  
Williams Speculum  
    Adult 17  
Wire Speculum 197, 201, 206

## Y

Yaghouti LASIK Polisher 71  
Yamagishi Viscocanalostomy Cannula 150  
Yankee Nucleus Rotator 43  
Yeoh Thin Toric Gauge 25

Yeoh Toric Gauge 24  
Yoshida Glaucoma Diamond Burr 82  
Youens Irrigating Lens Manipulator 156

## Z

Zaldivar ICL® Manipulator 41  
Zaldivar Iridectomy Forceps 120  
Zaldivar Iridectomy Scissors 132  
Zaldivar-Kraff ICL® PACman Forceps 113  
Zaldivar LASIK Spatula 68  
Zaldivar LRI Axis Marker 73  
Zaldivar LRI Diamond Knife 171  
Zaldivar Micro Acrylic Impalnt Forceps 100  
Zaldivar Superior Degree Gauge 61  
ZAP Diamond Knife 180  
ZAP Zaldivar Anterior Procedure II Diamond Knife 171

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