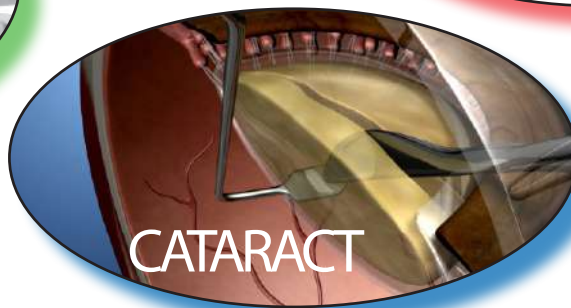


ASICO®

Catalog

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



Version NO:01/22



OPHTHALMIC SURGICAL INSTRUMENTS

www.asico.com · info@asico.com

post@meditools.no

Tlf: 40 17 40 16

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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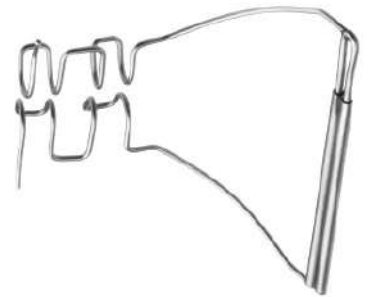
AE - 1000 SERIES

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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

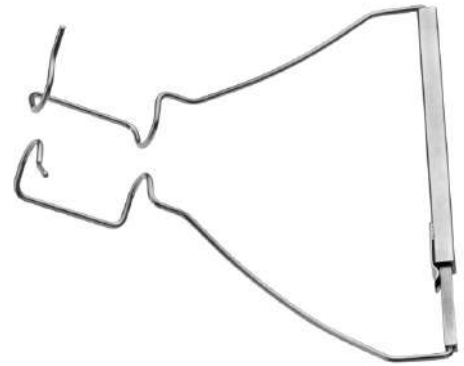
For the deep set version, the gap is smaller for the middle prong. Ideal for deep set eyes and narrow lids



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

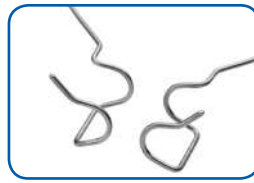
Overall Length: 50 mm
Blade Length: 14 mm

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.



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.



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



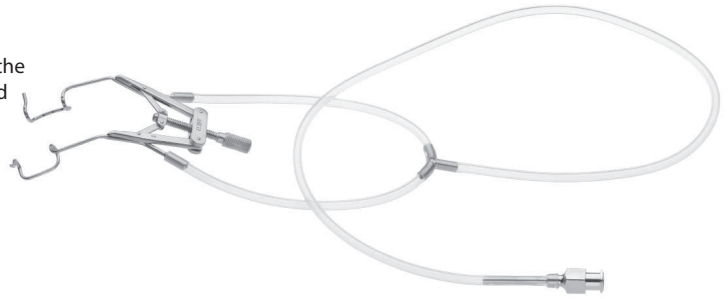
Miyajima Adjustable Aspirating Speculum - AE-1046AN

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.

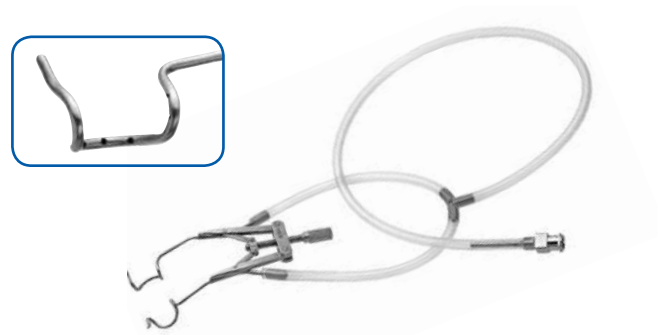


Hata-Miyoshi Aspirating Speculum - AE-1051AN

Blade Length: 12 mm

Overall Length: 80 mm

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



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

Overall length: 79 mm
Blade length: 16 mm



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

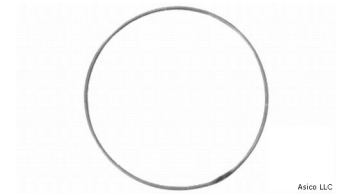
AE-1318 18 mm

AE-1319 19 mm

AE-1320 20 mm

AE-1321 21 mm

AE-1322 22 mm (Shown)



Schachar Blepharostats

AE-1400 Small

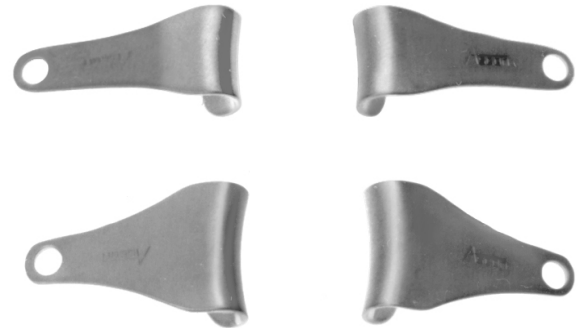
Overall length: 24 mm

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

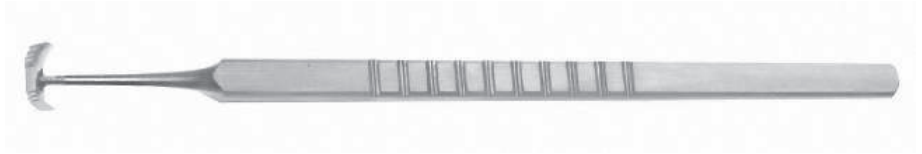
Overall length: 49 mm



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



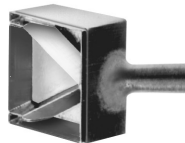
Kansas Linear Marker - AE-1525

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



Neuhann USC

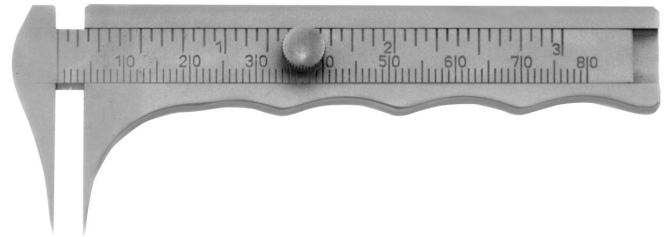
Glaucoma Marker - AE-1529

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



Jameson Caliper - **AE-1530**

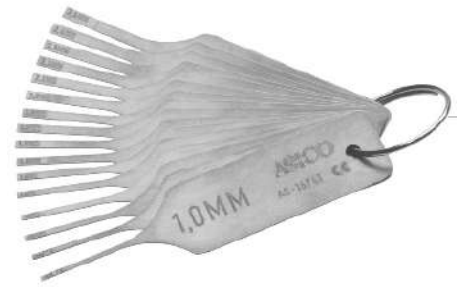
Overall length: 94 mm
Narrow tips



Tsuneoka Incision Gauges – AE-1574T

Set of 16 Titanium Blades

Measures 1.0 mm to 2.5 mm in 0.1 mm increments.



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°.



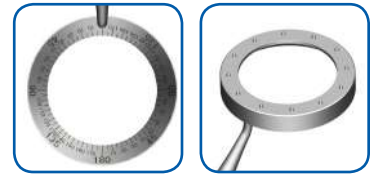
ASICO Beveled Degree Gauge with Teeth – AE-1590T

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.



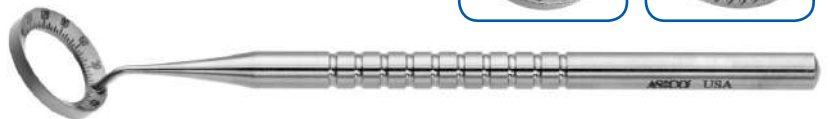
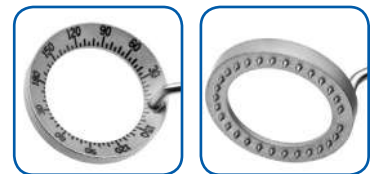
Miyata LRI & Toric Gauge – AE-1591

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

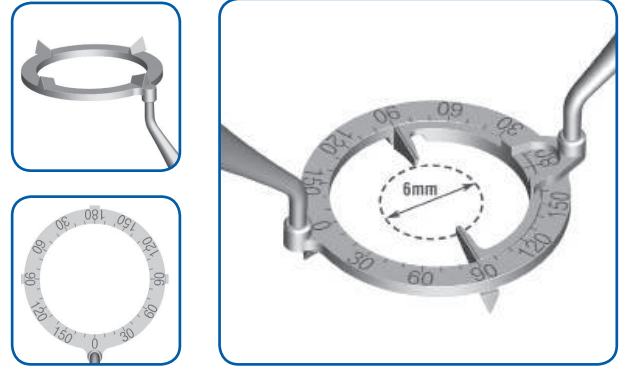
Markings every 10°. Thin, 2 mm rim provides much easier access to the eye as compared to conventional Mendez Degree Gauges. Small, outer diameter accommodates smaller corneas.



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



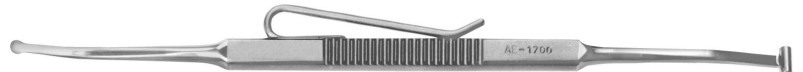
Crawford lacrimal intubation set - AE-1676

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



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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

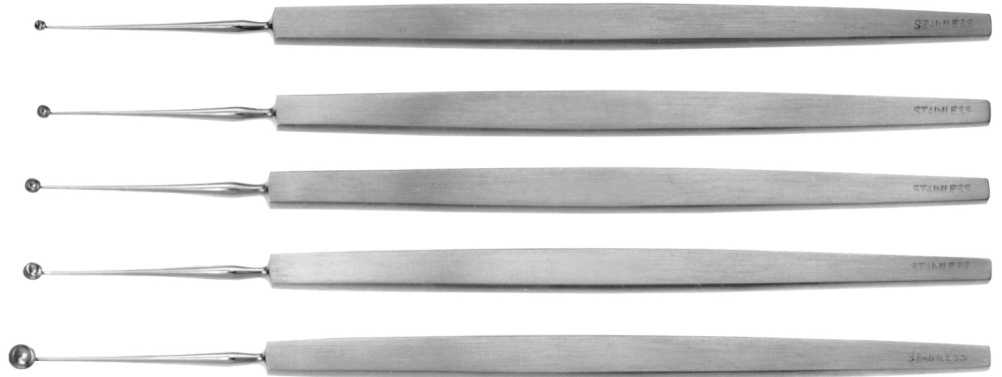
AE-2001 1.75 mm

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 Synechiaes Spatula - AE-2060

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



Girard Synechiaes 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

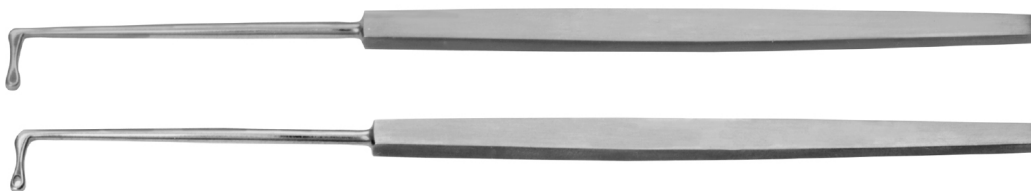


May Muscle Hook

AE-2125

AE-2126 With oblong hole

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



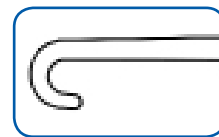
Gass Retinal Detachment Hook - AE-2128

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



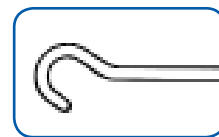
Hirschman Iris Hook - AE-2170

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

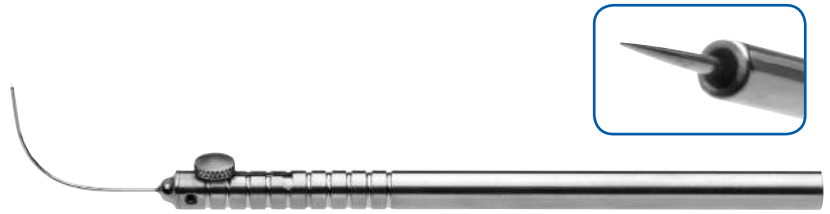


HOOKS/FIXATION RINGS

John DXEK/DSAEK Fixation Hook – AE-2182

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

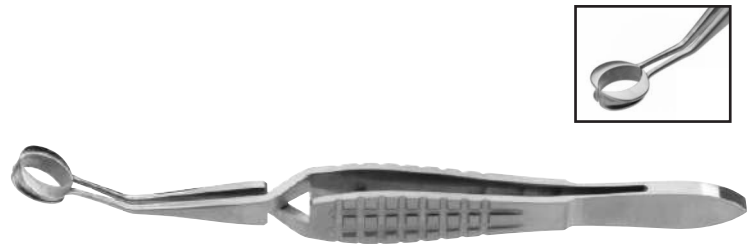
Exquisite design allows for effective fixation of the donor ' injection to unfold the donor disk within the recipient ant



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

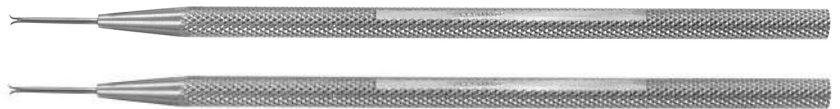
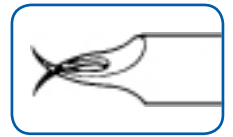


Twist Hook

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

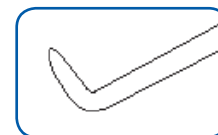
Blunt tip



Price-Sinsky Hook – AE-2207

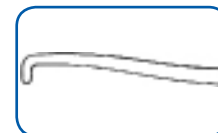
Overall Length: 113 mm
Shaft Length: 18 mm
Tip Length: 0.5 mm

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

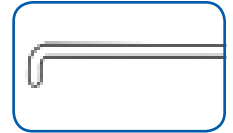
Tip is 'T' shaped, the length of the horizontal line (in T) is 0.69 mm

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



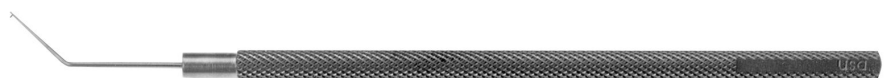
Kurosaka Fixation ring - AE-2200

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

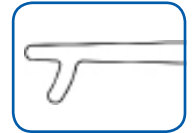
Overall Length 115 mm
Lens manipulating hook



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



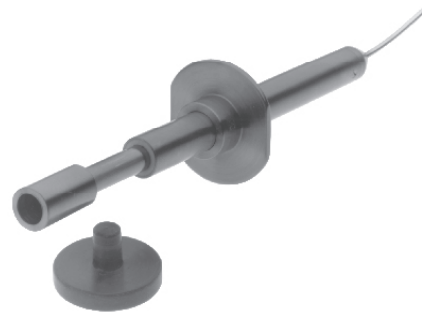
Jaffe IOL Manipulator - AE-2223

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.

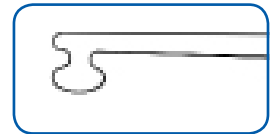


Kuglen Iris Hook & IOL Manipulator

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

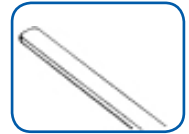
Tennant IOL Manipulating Hook – AE-2250

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



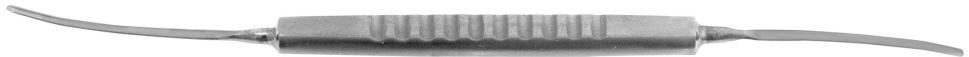
Paton Spatula & Spoon - AE-2321

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



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

Overall length: 120 mm
Distance between tips: 0.60 mm



Zaldivar ICL[®] 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[®] Manipulator - AE-2421

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



ICL[®] is a registered brand of Staar Surgical.



Spadafora Memorylens[®] 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[®] 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[®] for better manipulation. Posterior surface of instrument is micro sandblasted.



ICL[®] is a registered brand of Staar



PHACO MANIPULATORS

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



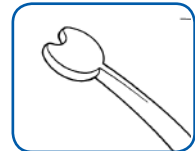
Espallat- Deblasio Nucleus Rotator - AE-2499

Overall length: 120 mm

Angle to tip: 10 mm

Tip diameter: 0.80 mm

Rotates and manipulates nucleus and IOL, retracts iris



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



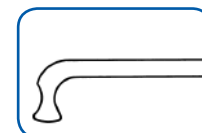
Yankee Nucleus Rotator - AE-2503

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



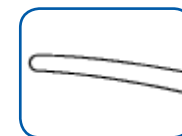
Little Malleable Spatula - AE-2509

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



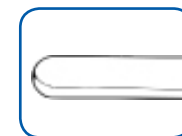
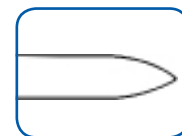
Johnson Spatula - AE-2511

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



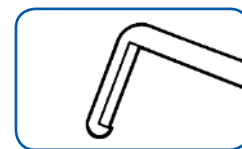
Maloney Nucleus Rotator AE-2512 With Spatulated tip

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



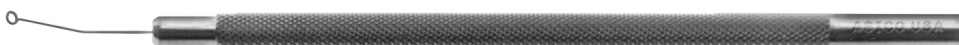
Nagahara Phaco Chopper - AE-2515

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

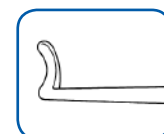
AE-2517L* 60° cutting edge, left handed

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



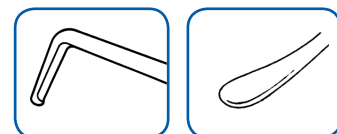
Lieberman Micro-Finger - AE-2518

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

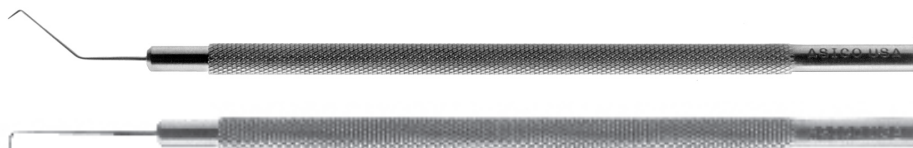
AE-2521 Angled, superior

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

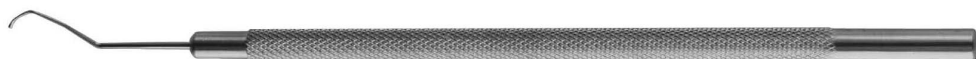


Minami "M" Hook™ - AE-2523

Overall length: 118 mm

Tip diameter: 0.25 mm

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



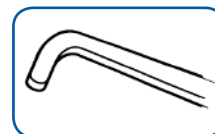
Friedman-Koch Universal Chopper & Spatula - AE-2524

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

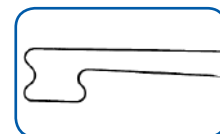


Friedman Phaco Manipulator - AE-2526

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

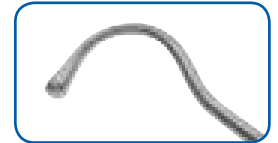
Olson Phaco Chopper - AE-2527

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



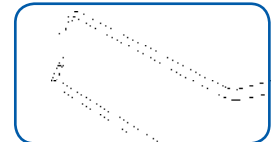
Koch-Minami Chopper – AE-2528

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.



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.



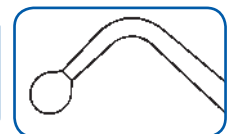
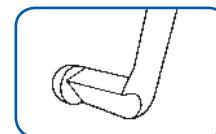
Morrison Lens Loop - AE-2545

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

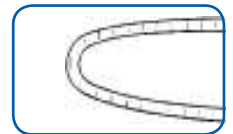


Wilder Lens Loop - AE-2556

Overall length: 137 mm

Width: 3.60 mm

With serrations

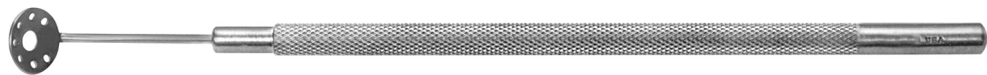


Barraquer Lenticular Spoon - AE-2560

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



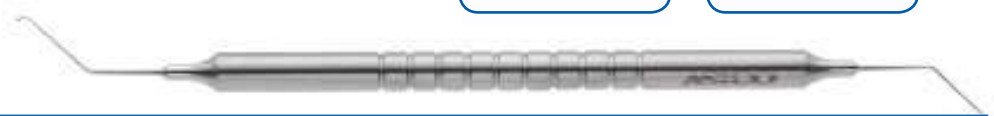
Bunge Evisceration Spoon - AE-2570

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)

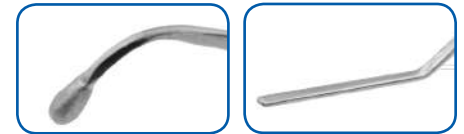
The Chang combination chopper combines horizontal and vertical chopper tips on opposite ends to facilitate the use of both techniques during the same case. The horizontal chopper is a modified Lieberman microfinger that has been elongated for chopping. The curve of the tip is designed to conform to the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



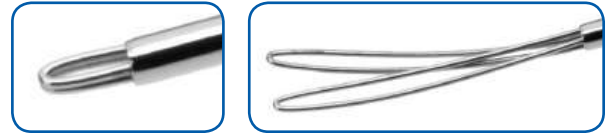
PHACOSECTION/OZ MARKERS

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

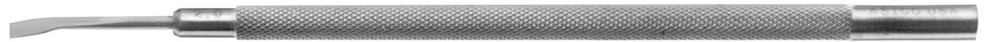
AE-2733 4.0 mm

AE-2734 5.0 mm

Overall length: 115 mm

Angle to tip: 6 mm

For correction of astigmatism

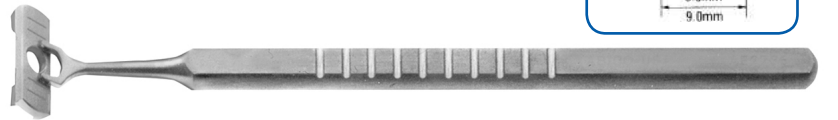
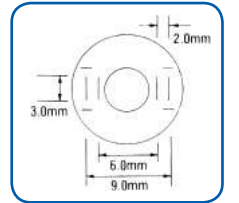


Nordan-Mini-Ruiz Marker - AE-2736

Marks at 6.0 mm and 9.0 mm OZ

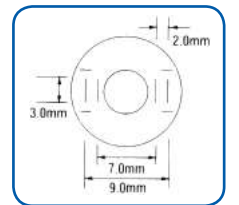
Overall length: 100 mm

For correction of astigmatism



Nordan Mini-Ruiz Marker - AE - 2737

7.0/9.0 mm



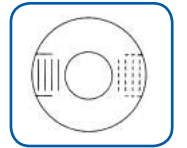
Ruiz Marker

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

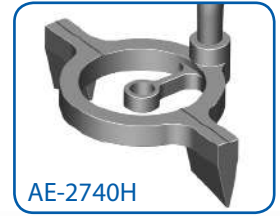
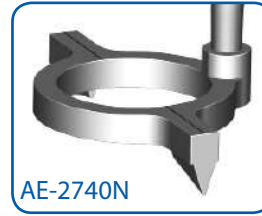
Nuijts-Solomon Toric Axis Marker w/Peg – AE-2740H

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.



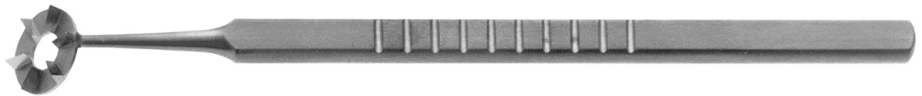
Radial Incision Marker - AE-2750

6 blades, 9.5 mm O.D.



Thornton Radial Incision Marker - AE-2750L

6 blades

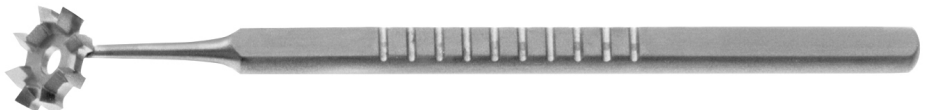
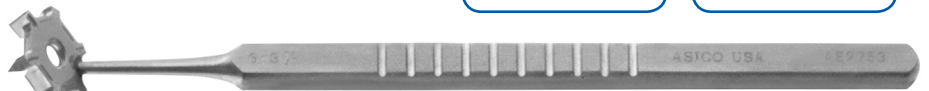
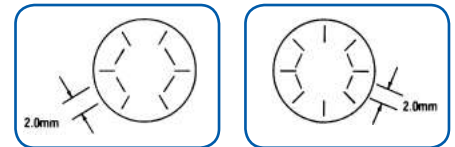


Nordan RK/AK Marker

AE-2753 6 blades

AE-2754 8 blades

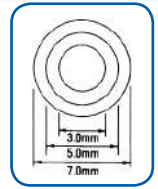
Overall length: 105 mm
ID: 3.00 mm
For radial keratotomy and compound myopic astigmatism



MARKERS/FIXATION RINGS

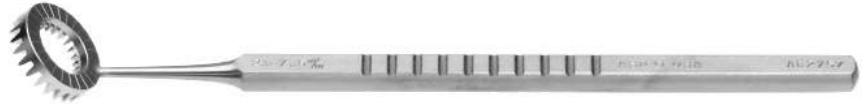
ASICO Triple Ring Marker - AE-2756

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°.



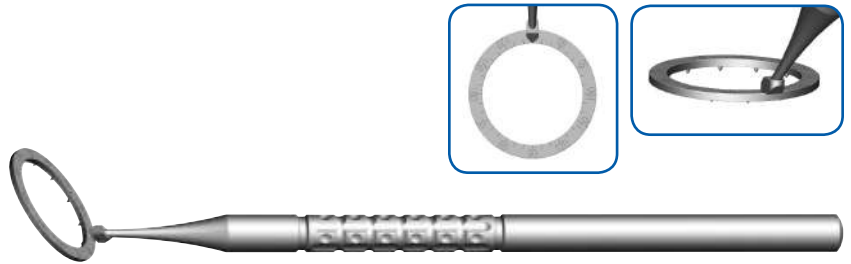
Zaldivar Superior Degree Gauge – AE-2764N

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°.



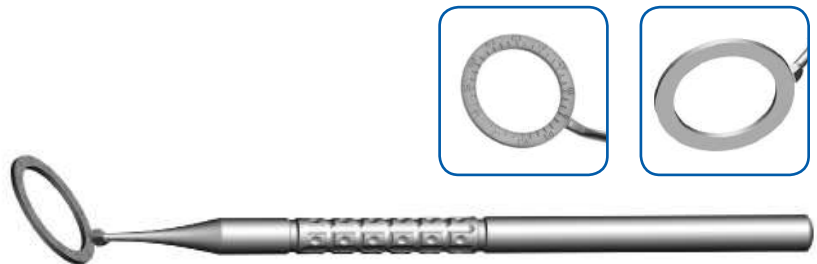
Mendez Degree Gauge – AE-2765N

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

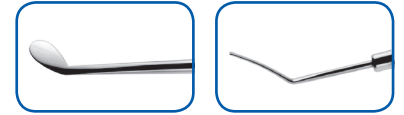
Grandon Rotatable Radial Marker & Degree Gauge - AE-2770

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 approximately 1/2 diopter increased effect following RK. Probe is inserted into each RK incision to break stroma-to-stroma adhesion throughout the incision



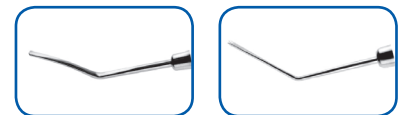
Hersh LASIK Retreatment Spatula - AE-2776

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

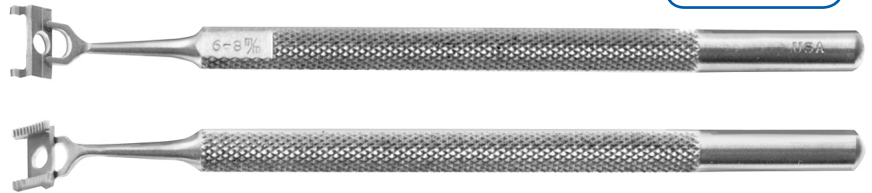
Thornton Double Corneal Ruler

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



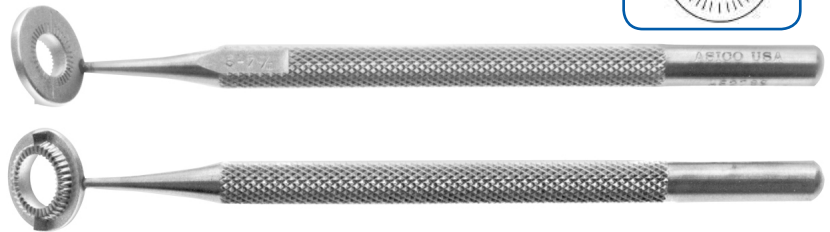
Thornton 360 Arcuate Marker

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

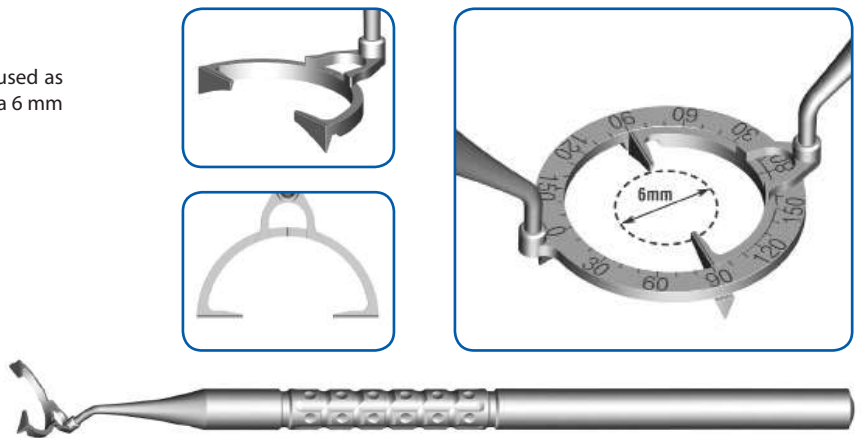
Marker and Degree Gauge in one. Cutouts for precise alignment. Markings every 5°. Inner barrel can be rotated to align to toric axis reading.



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.



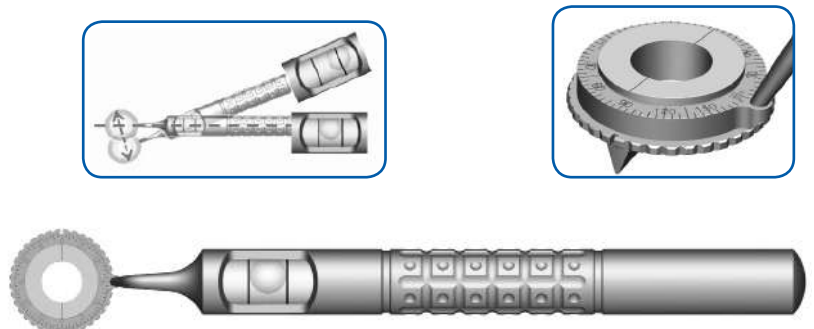
Neuhann One Step Toric Marker – AE-2799T

Overall: 99.0 mm

ID: 5.0 mm

OD: 12.50 mm

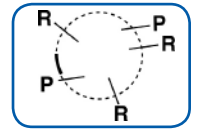
Pre-Op and Intra-Op markings all in one. Can be used for smaller eyes. Bubble level helps to identify the horizontal axis. Knurled outer barrel allows for easy rotation without touching the marking blade. ASICO's bubble level is more precise than a pendulum. This marker uses the Tabo System; there are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



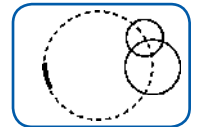
Machat LASIK Marker - AE-2802

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



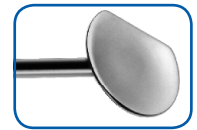
Zaldivar LASIK Spatula - AE-2822

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



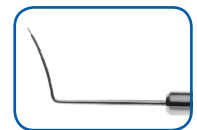
Alia LASIK Spatula - AE-2824

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.



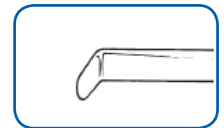
Fukuyama LRI Marker - AE-2829

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

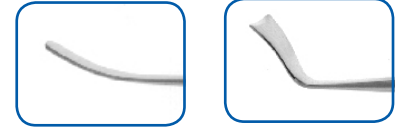
Maloney Enhancement Hook - AE-2834

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.



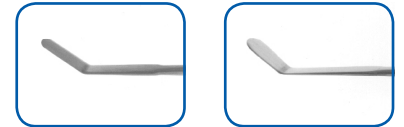
Kritzinger-Updegraff (KU) LASIK Flap Elevator & Manipulator - AE-2835

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

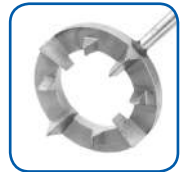
Marker and Degree Gauge in one. The thin profile and small, 12.5 mm outer diameter make this instrument lightweight and easy to use on small orbits. Laser lines indicate location of the marking plates. Outer edge is knurled for easy rotation with one hand.



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

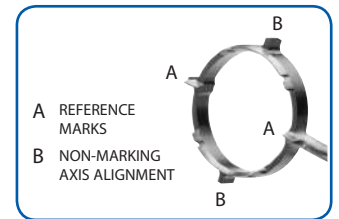
Koch LRI Axis Marker – AE-2863

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.



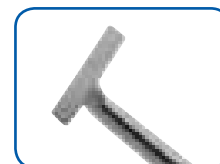
John Dextome DMEK/DSAEK Spatula – AE-2872

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.



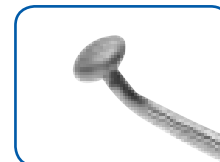
John DXEK/DSAEK Descemet's Stripper – AE-2874

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

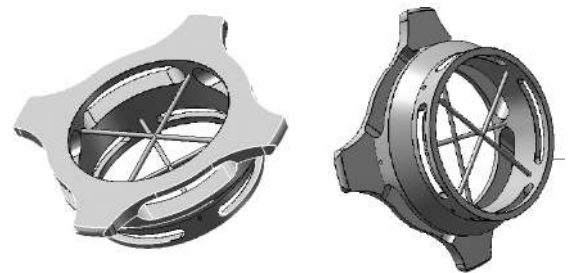
Designed to be used with the Intralase Suction Ring to increase the accuracy in centering the suction ring's placement on the patient's eye. Maintains excellent visualization of the pupillary and limbal landmarks. Easy to place and remove the centering device before and/or after suction.



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.



Algerbrush II Pterygium – AE-3260

Complete set with 3.5mm diamond dusted burr



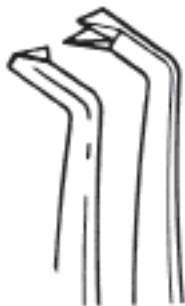
AE - 4000 SERIES

Description

Iris Forceps	83
Corneal Forceps	83-86
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Corneal Fixation Forceps	88-89
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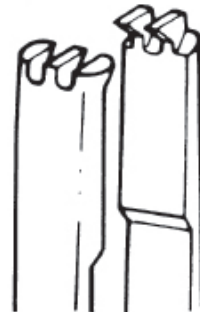
TYPES OF FORCEPS TIPS



1X2 Bonn Style



1X2 Castroviejo Style
(Overlapping)



2X3 Style



Pierse Tip



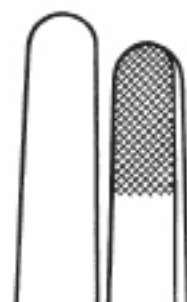
Tying Forceps
with Platform



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

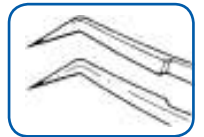
1 x 2 teeth, 0.40 mm, with 6 mm tying platform



Gill-Colibri Forceps - AE-4034

Overall length: 73 mm

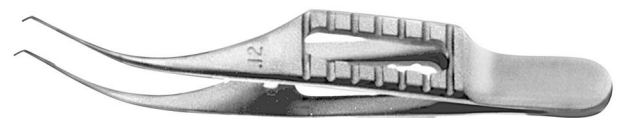
Very fine, pointed 0.50 mm tips



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.



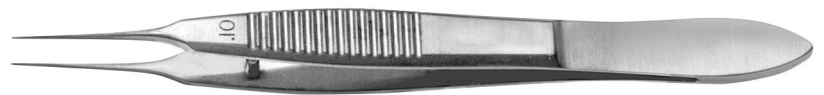
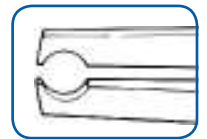
Pierse-Colibri Corneal Forceps - AE-4038

Overall length: 78 mm
 0.10 mm atraumatic tips



Pierse Corneal Forceps - AE-4039

Overall length: 82 mm
 0.10 mm atraumatic tips, Straight



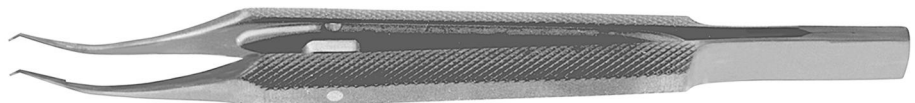
Polack Double Corneal Forceps - AE-4041

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



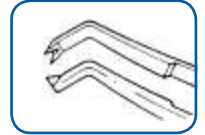
Nordan Colibri Forceps - AE-4045

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

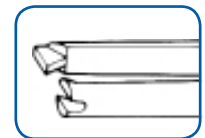
Overall length: 121 mm
With 5 mm tying platform, 1 x 2 teeth,
0.12 mm. Suture cutter cuts 10-0 and
11-0 sutures



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



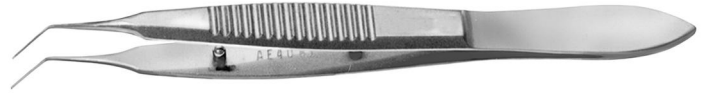
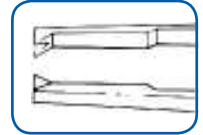
McPherson Corneal Forceps

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

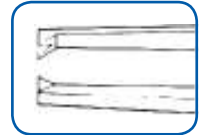


Kelman-McPherson Forceps - AE-4070

Overall length: 82 mm

Angle to tip: 7.5 mm

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

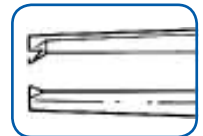


Hoffer-McPherson Forceps - AE-4071

Overall length: 105 mm

Angle to tip: 11 mm

Very delicate, 1 x 2 teeth, 0.12 mm



Bonn Forceps

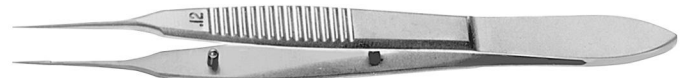
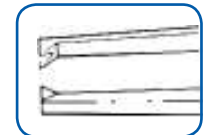
AE-4080 Short model

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.



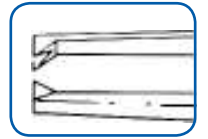
FORCEPS

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

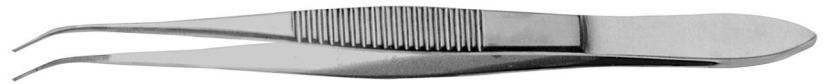
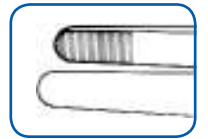


Dressing Forceps

AE-4110 Straight

AE-4111 Curved

Overall length: 100 mm
Serrated, delicate tips

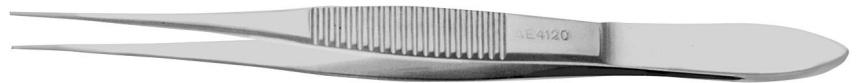


Tissue Forceps

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

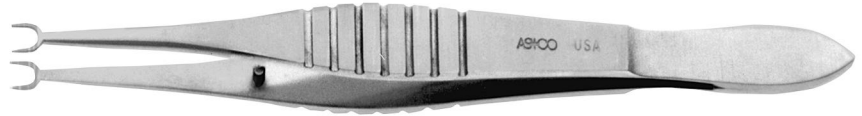
Overall: 105 mm

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



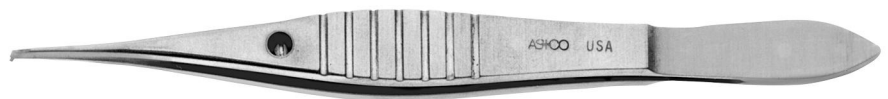
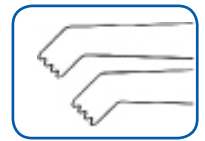
Bores Corneal Fixation Forceps - AE-4150 Straight

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



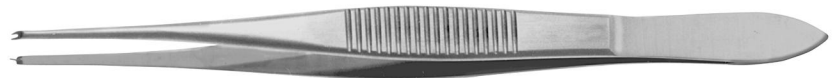
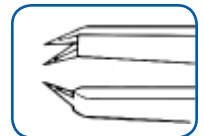
Nordan Corneal Fixation Forceps - AE-4155 Curved

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



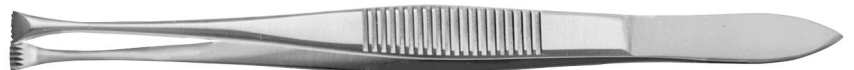
Elschnig Fixation Forceps - AE-4160

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

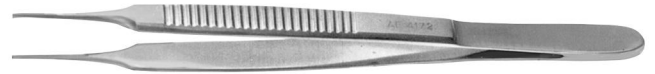
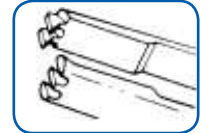


Lester Fixation Forceps

AE-4172 1 x 2 teeth, 0.40 mm

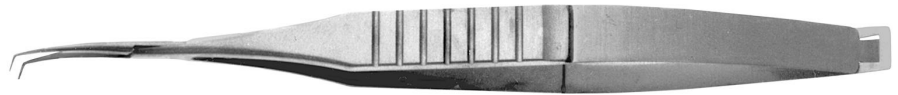
AE-4173 2 x 3 teeth, 0.40 mm

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

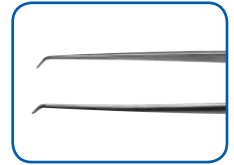
Tip Angle: 50°

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

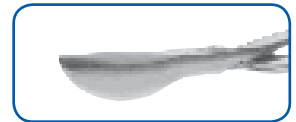
reduced to less than 50% of that required with the conventional grooving method.

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

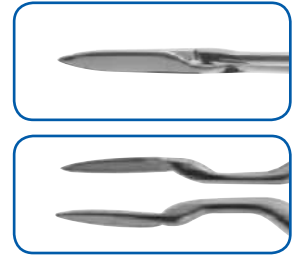
supported by the Nucleus Sustainer (AE-2530).



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.



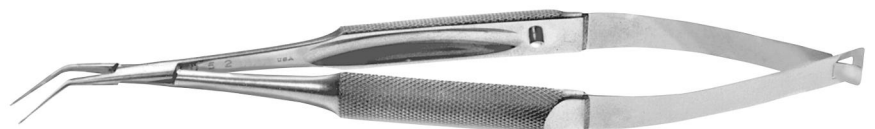
Tolia Lens Forceps - AE-4203

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



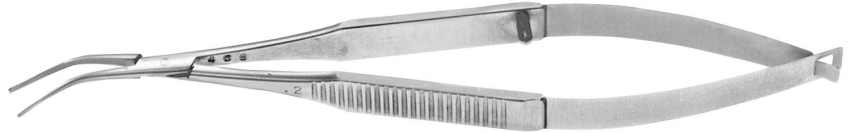
Anis Lens Holding Forceps - AE-4204

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



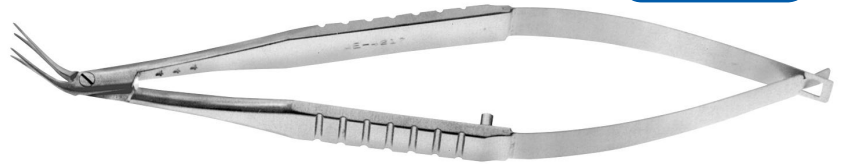
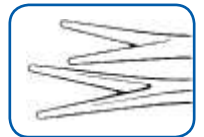
laydes Lens Holding Forceps - AE-4211

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.

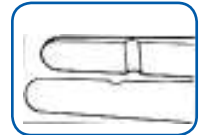


Kellan Endocapsular IOL Insertion Forceps - AE-4222

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.

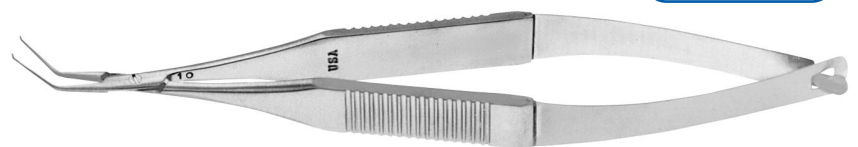


Kelman Lens Holding Forceps - AE-4225

Overall length: 115 mm

Angle to tip: 8 mm

Right angled tips



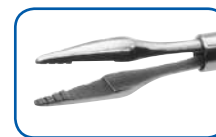
Tan DSAEK Forceps – AE-4226

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

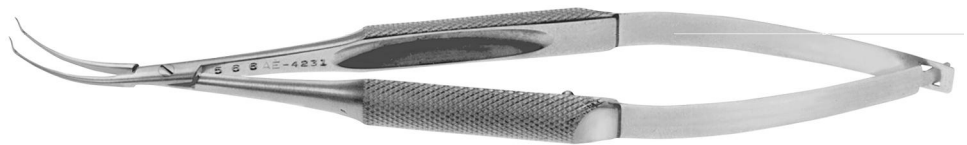
AE-4230

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

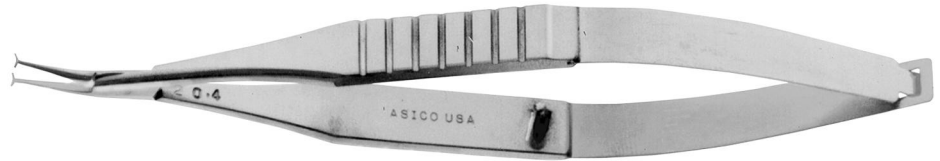
AE-4236L With lock

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

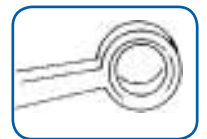


Lieberman Micro-Ring Lens Forceps - AE-4240

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

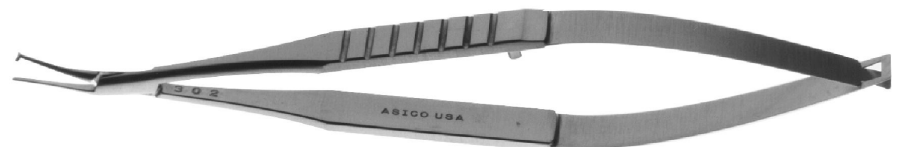


Bohr MemoryLens® Forceps - AE-4241

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



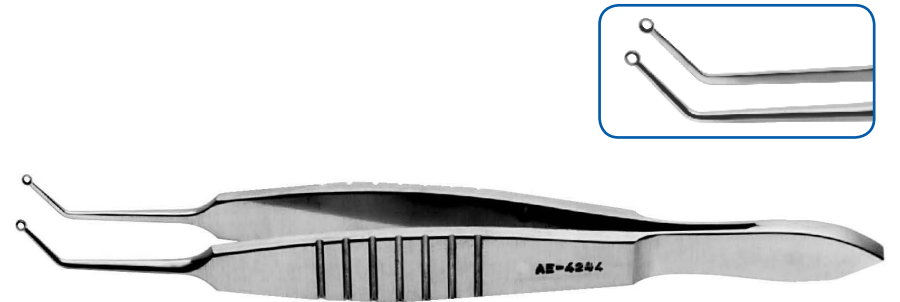
Me mmen MemoryLens® Forceps - AE-4243

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.



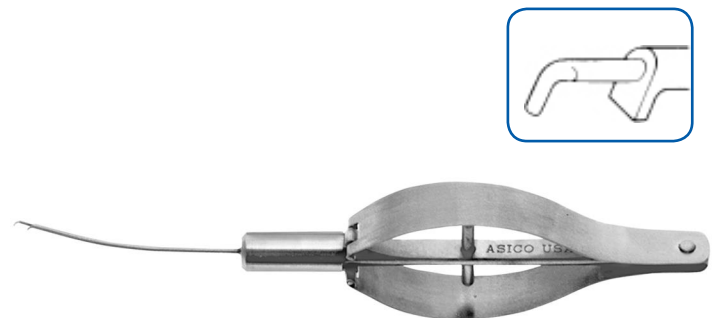
Faulkner II Lens Inserting Forceps - AE-4247

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

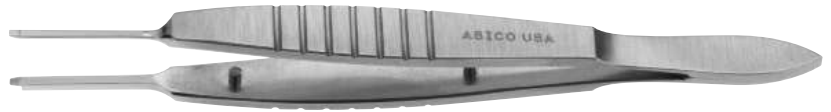
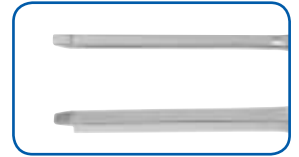


Akahoshi Acrylic IOL Loading Forceps – AE-4253N

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



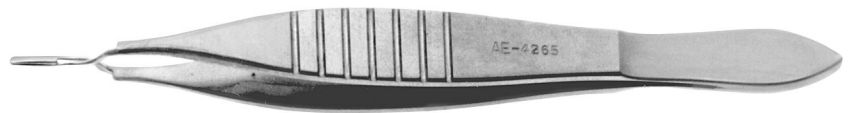
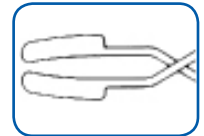
Nordan Foldable IOL Forceps - AE-4264

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



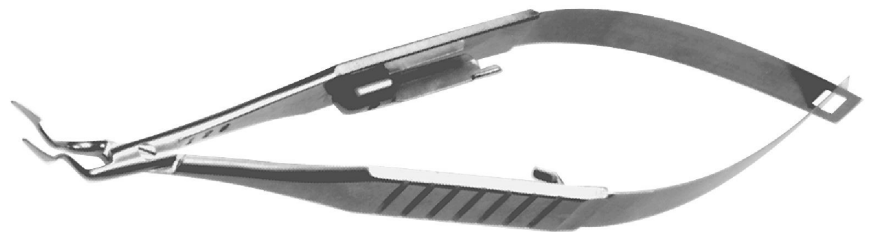
ASICO IV Foldable IOL Forceps AE-4265

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

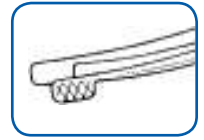
Flat Handle
 Overall length: 120 mm
 Angle to tip: 15 mm
 Thin, smoothly polished tips will not damage acrylic lens, For easy implantation without stretching a small incision



Kraff Nucleus Splitter - AE-4270N

Overall length: 107 mm
Tip length: 2.0 mm
Tip height: 1.0 mm

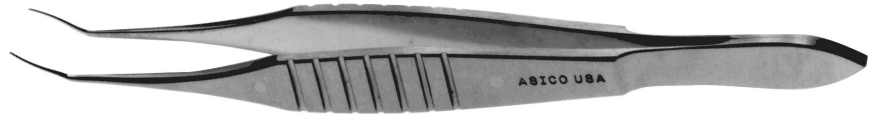
To effectively split the nucleus during the phaco procedure. Jaws open to a maximum of 3.0 mm



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

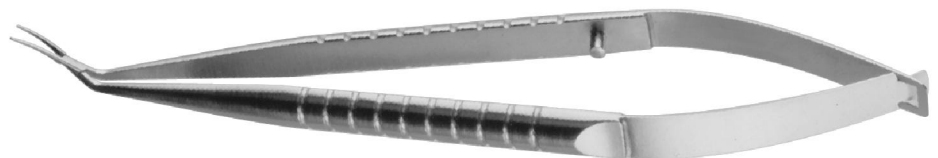
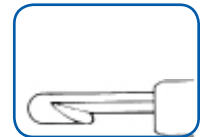
Overall Length: 120 mm
 Tip Length: 5.5 mm

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

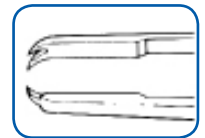
For soft to medium consistency cataracts. Can be used in combination with the ultrachopper wherein the prechopper helps make initial grooves in the cataract. Angled down tip helps for easy insertion of the prechopper blades. The broad surface divides the ultrachopped nucleus easily.



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



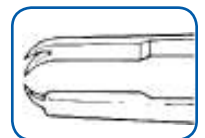
Castro Suturing Forceps, 0.3 mm – AE-4302N

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

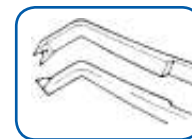
AE-4320 Right

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

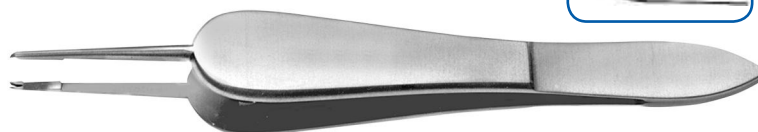
1 x 2 teeth, 0.12 mm forceps with tying platform



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

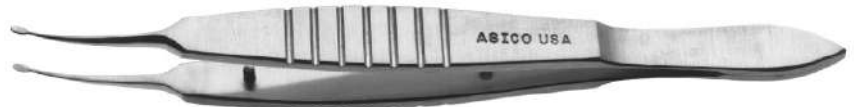


Manche LASIK Forceps - AE-4359

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

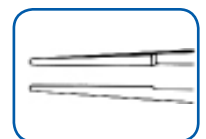
AE-4360 Straight

AE-4361 Curved

Overall length: 102 mm

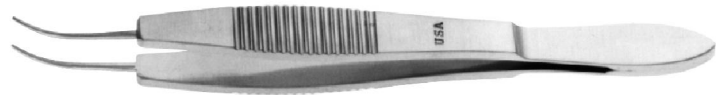
Smooth jaws with 6.0 mm tying platform, 0.30 mm tip width.

Ideal for 8-0 to 11-0 sutures



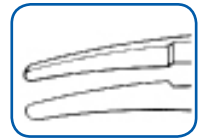
Buratto LASIK Forceps - AE-4362

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.

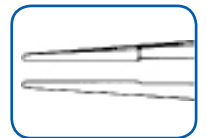


Kobayashi Chalasis Forceps, Small - AE-4368S

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



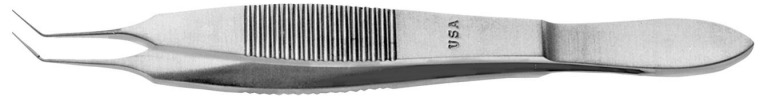
McPherson Tying Forceps

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

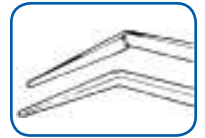
AE-4372

Overall length: 82 mm

AE-4375 Long handle

Overall length: 102 mm

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

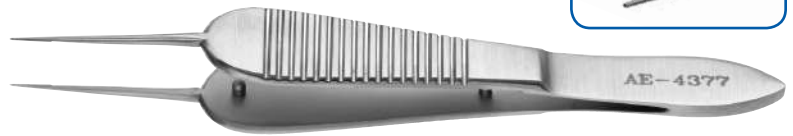


ASICO Tying Forceps with Fine Platform – AE-4377

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.



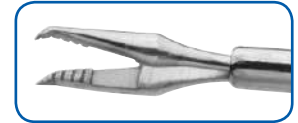
Kawai Capsulorrhexis Forceps

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 Capsulorrhexis 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 Capsulorrhexis 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 Capsulorrhexis Forceps

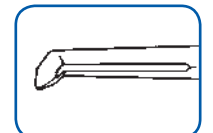
AE-4394

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

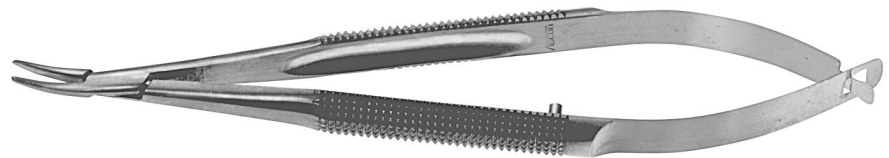
Cupped tips effectively grasp the anterior capsule. Tongue and groove system keeps jaws aligned



Troutman Tying Forceps - AE-4398

Overall length: 118 mm

For 4-0 to 7-0 sutures

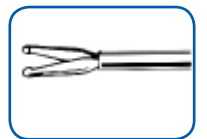


Kansas Nucleus Fragment Forceps - AE-4399

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

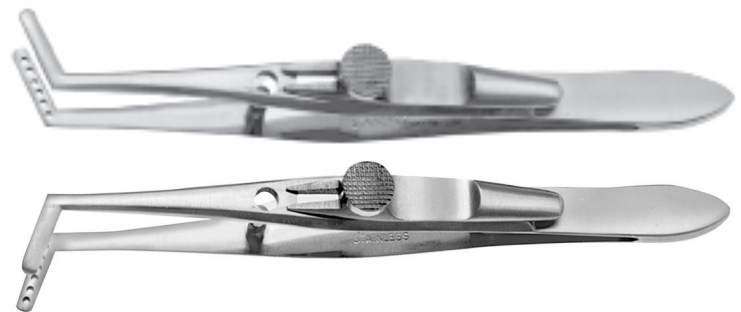
AE-4410 Right

AE-4411 Left

Overall length: 100 mm

Angle to tip: 12 mm

With sliding lock, 6 teeth, adult size



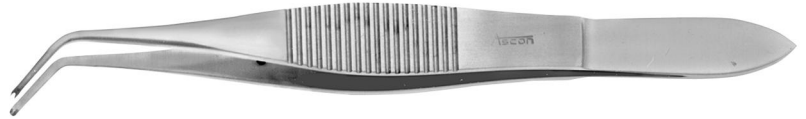
Nugent Superior Rectus Forceps - AE-4420

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.



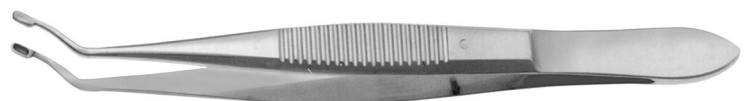
Arruga Capsule Forceps - AE-4500

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

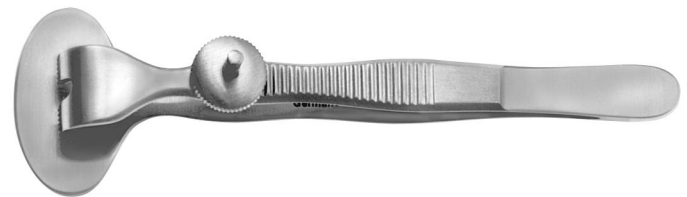
Overall Length: 110 mm
Platform Length: 3 mm

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

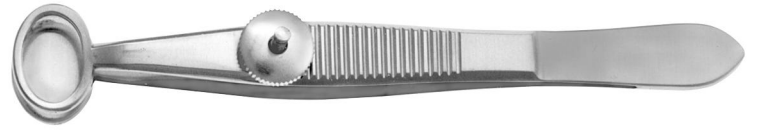
Flat jaws designed for easy, controlled pick-up and accurate placement of the silicone ring for dilating small pupils.



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



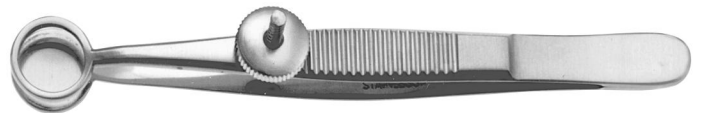
Hunt Chalazion Forceps - AE-4630

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



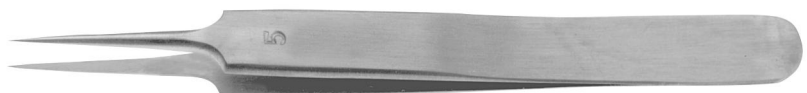
ASICO Jeweler's Forceps - AE-4704 #4

Overall length: 110 mm
Delicate tips



ASICO Jeweler's Forceps - AE-4705 #5

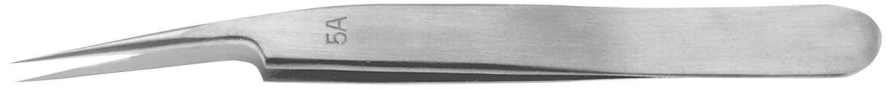
Overall length: 110 mm
Delicate tips



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

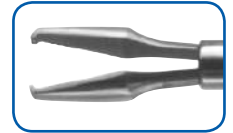
AE-4924 25 gauge

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

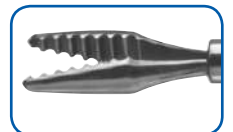
AE-4914 23 gauge

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

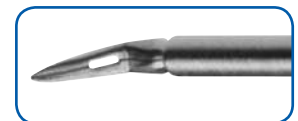
Forceps designed to perform rhexis on the macula. Specially designed tip to initiate the rhexis. Jaws of the forceps are treated for maximum secure grasping.



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
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Tenotomy Scissors	128,133
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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

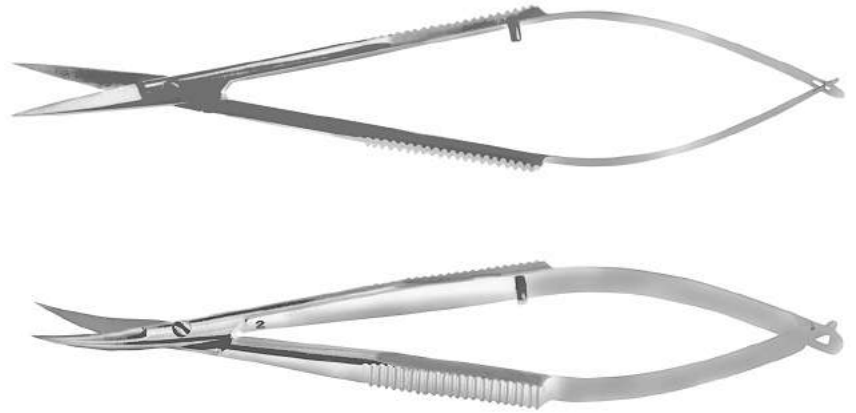
Iris Scissors

AE-5100 Straight

AE-5101 Curved

Overall length: 110mm

Length of blades: 15.0mm



Micro Iris Scissors

AE-5110 Straight

AE-5111 Curved

Overall length: 100mm

Length of blades: 8.0mm



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

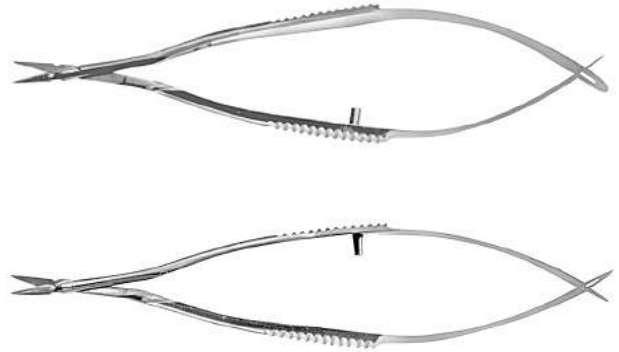


Vannas Capsulotomy Scissors

AE-5400 Straight

AE-5410 Curved

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

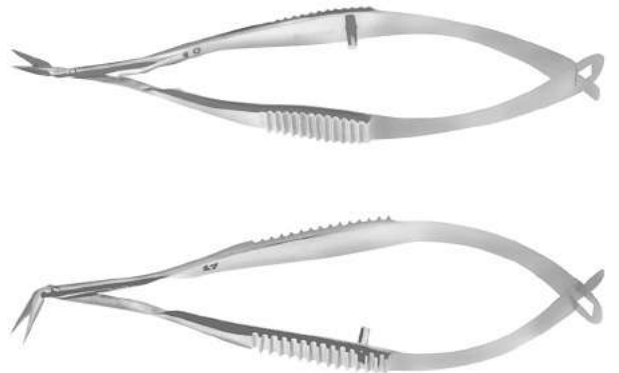


Vannas Capsulotomy Scissors

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

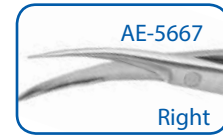
Overall length: 140mm
20 gauge instrument can be used through paracentesis incision. Curved blades for cutting ease and better visualization. For use with iridectomy forceps (AE-4965)



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



Strabismus Scissors

AE-5730 Straight

AE-5731 Curved

Overall length: 105mm

Length of blades: 30mm

Blunt tips, ring handle



Enucleation Scissors

AE-5740 Medium Curve

AE-5741 Strong Curve

Overall length: 130mm

Length of blades: 43mm



AE - 6000 SERIES

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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 lack

Overall length: 121mm

Length of jaws: 4.0mm

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



ICMS™ Needle Holder

AE-6902 Straight

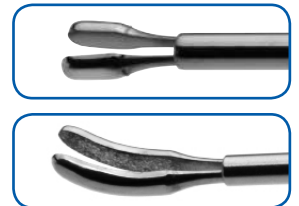
AE-6903 Curved

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

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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

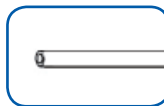
Air Injection (Rycroft) Cannula

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

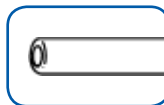
AE-7010 23 gauge, straight

12 mm malleable tip

AE-7011 23 gauge, curved

15 mm malleable tip

Overall length: 32 mm



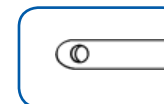
Mcintyre Lacrimal Cannula

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

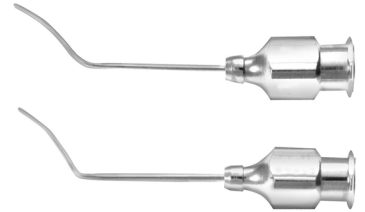
AE-7040 21 gauge

AE-7041 19 gauge

Overall length: 32 mm

Angle to tip: 12.0 mm

Spatulated tip, front opening

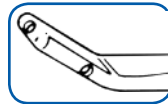


Sheets Cyclodialysis Cannula - AE-7050

19 gauge

Overall length: 32 mm

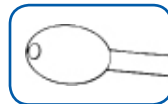
Spatulated tip, one front and two side openings



Troutman Alpha-Chymotrypsin Cannula - AE-7060

25 gauge

Overall length: 28 mm



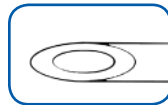
Atkinson Retrobulbar Needle

AE-7070 23 gauge

AE-7071 25 gauge

Overall length: 35 mm

Beveled tip



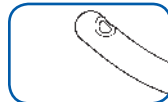
Buratto Subtenon Needle - AE-7076

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

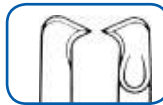


Double Edge Cystotome

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

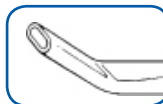
AE-7196 Bulb only

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

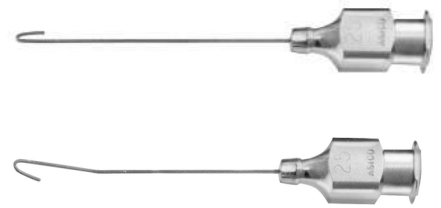
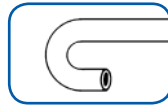
AE-7202 25 gauge, right

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

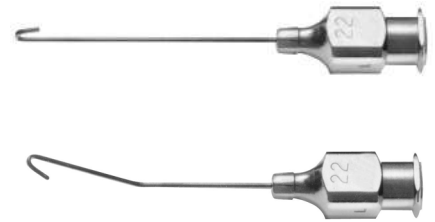
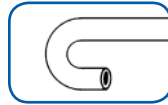
AE-7205 22 gauge, right

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

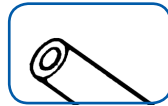
AE-7210 30 gauge

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

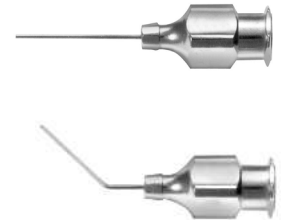
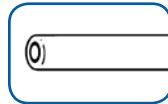
AE-7226 26 gauge, angled

AE-7228 30 gauge, straight

AE-7230 30 gauge, angled

Overall length: 17 mm

Irrigating



McIntyre-Binkhorst Irrigating Cannula

AE-7231 26 gauge, right

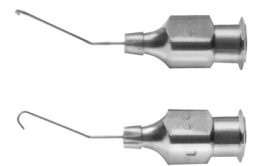
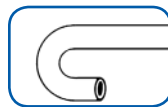
AE-7232 26 gauge, left

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



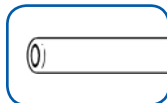
Viscoelastic Aspirating Cannula

AE-7270 22 gauge

AE-7271 19 gauge

Overall length: 32 mm

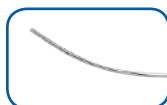
Angle to tip: 10 mm



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

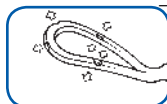
23 gauge

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



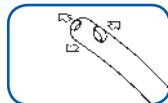
Buratto LASIK Irrigation Cannula - AE-7284

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

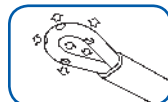
16 gauge

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



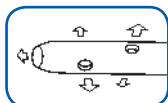
Kritzinger Updegraff (KU) LASIK Aspiration Cannula - AE-7286

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



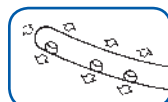
Guell LASIK Irrigation Cannula - AE-7288

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

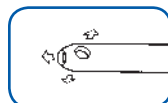
23 gauge

Overall length: 24 mm

Irrigation ports: 3

Angle to tip: 12.0 mm

Angle: 45°



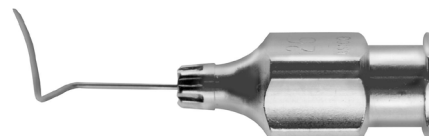
Doane-Slade LASIK Irrigation Cannula

AE-7290L 26 gauge, left eye

AE-7290R 26 gauge, right eye

Overall length: 29 mm Irrigation ports: 1

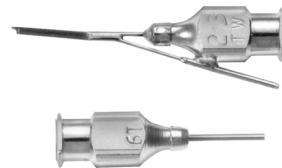
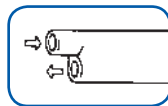
For superior flap LASIK



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



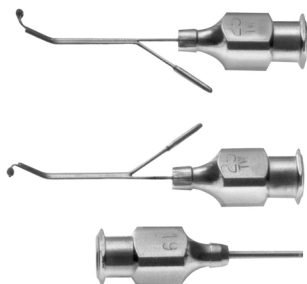
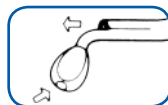
Gills-Welsh Irrigating-Aspirating Cannula

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

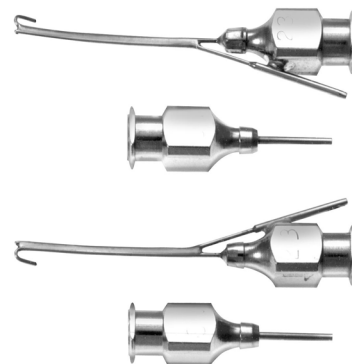


Grandon Irrigating-Aspirating Cannula

AE-7310 Right

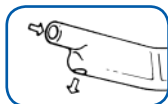
AE-7311 Left

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

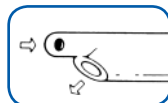


Simcoe Irrigating-Aspirating Cannula

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

CANNULAS

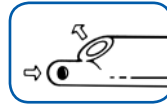
Simcoe (Reverse) Irrigating-Aspirating Cannula

AE-7330R

AE-7330RS With sandblasted tip for polishing posterior capsule

Overall length: 75 mm

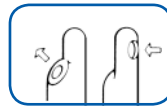
23 gauge irrigation with angled front opening, 23 gauge aspirating cannula with 0.30 mm port, irrigation on the tubing hub and aspiration on the needle hub, supplied with silicone tubing



Swiss Irrigating-Aspirating Cannula - AE-7331

Overall length: 15 mm

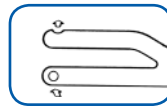
23 gauge thin wall irrigation with angled front opening, 23 gauge aspirating cannula with 0.30 mm port on left side of aspirating tube, irrigation on the needle hub, aspiration on the tubing hub, supplied with silicone tubing



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

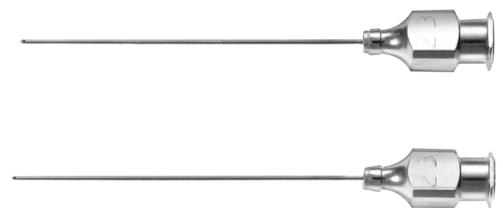
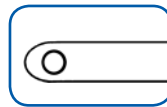
AE-7370 0.20 mm side port

Overall length: 46 mm

AE-7371 0.30 mm side port

Overall length: 56 mm

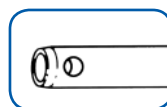
23 gauge



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



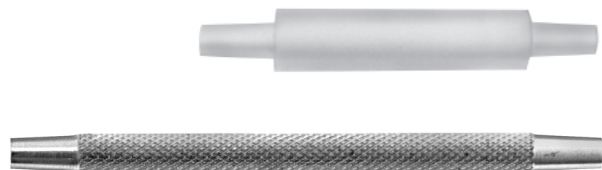
ASICO Double Male Adaptor

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

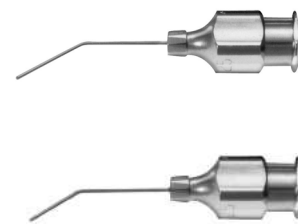
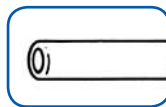
AE-7408

Angle to tip: 8.0 mm

AE-7410

Angle to tip: 10.0 mm

25 gauge, front opening



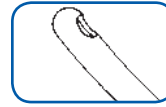
CANNULAS

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

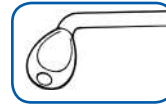
AE-7441 25 gauge, left

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

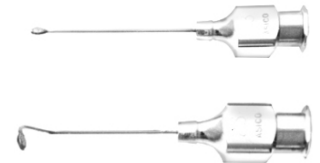
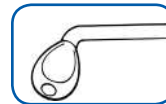
Overall length: 23 mm

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°

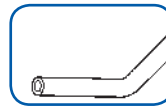


Yamagishi Viscoanalostomy Cannula

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



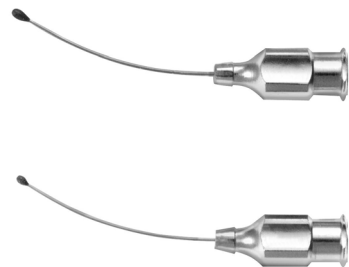
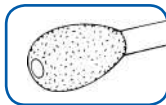
Jensen Posterior Capsule Polisher

AE-7523 23 gauge

AE-7525 25 gauge

Overall length: 27 mm

Sandblasted tip, front opening,
gently curved



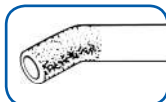
Kratz Capsule Polisher - AE-7530S

23 gauge

Overall length: 21 mm

Port size: 0.30 mm

1.0 mm sandblasted tip, angled 30°

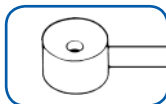


Kraff Posterior Capsule Polishing Curette - AE-7532

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

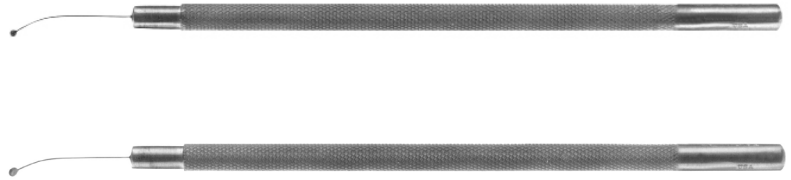


Anis Scrubber

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

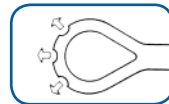


Knolle- Pearce Irrigating Vectis - AE-7620

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



CANNULAS

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

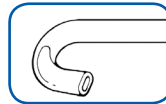
AE-7625 27 gauge, left

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

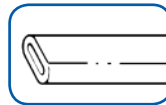
AE-7629 25 gauge, angled

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



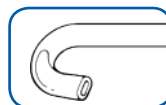
J-Shaped Hydrodissection Cannula - AE-7628

25 gauge

Overall length: 18 mm

Tip width: 2.5 mm

Flat tip for superior pole dissection



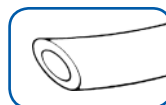
Kellan Hydrodelineation Cannula - AE-7630

25 gauge

Overall length: 20 mm

Curved bevel tip, sharp on top,

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



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.

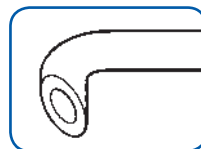


Chang Hydrodissection Cannula – AE-7638

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

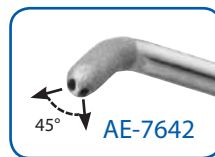
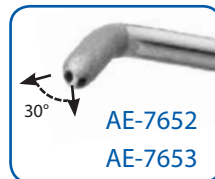
AE-7652 22 Gauge, 30° Angle of Flow

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

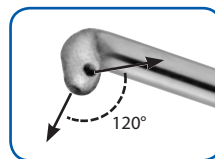
AE-7643 23 Gauge

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.



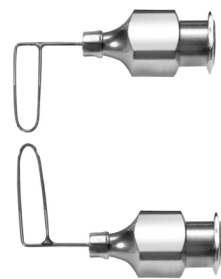
Simcoe Nucleus Delivery Cannula

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

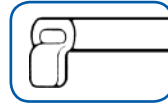
Thurmond Nucleus Irrigating Cannula & Iris Retractor

AE-7658 18 gauge

AE-7659 19 gauge

Overall length: 24 mm

Front opening, smooth downward curved lip

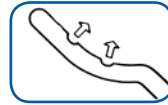


"Tire Tool" Cannula - AE-7660

25 gauge

Overall length: 19 mm

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

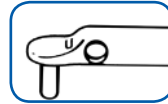


Kuglen Irrigating Lens Manipulator - AE-7710

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

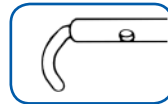


Osher Irrigating Lens Manipulator - AE-7725

25 gauge

Overall length: 21 mm

25 gauge with side port and pigtail tip

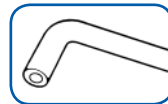


Youens Irrigating Lens Manipulator - AE-7735

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

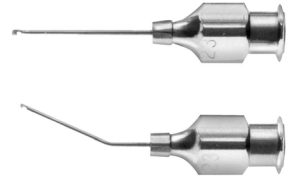
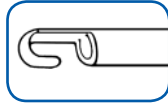
Mcintyre Irrigating Iris Hook

AE-7750 23 gauge, straight

AE-7751 23 gauge, angled

Overall length: 18 mm

Smooth blunt tip



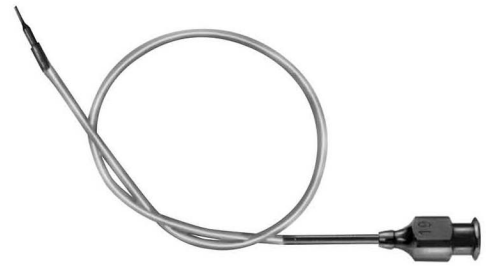
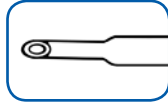
Heslin Infusion Cannula

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

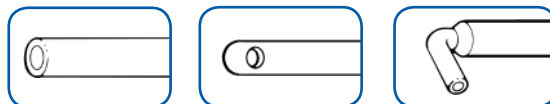
AE-7902 20 gauge, side opening 0.5 mm

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

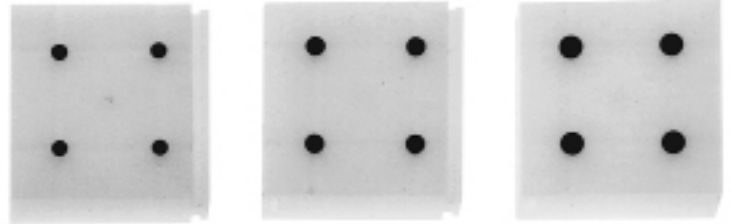
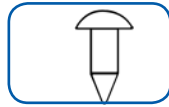
AE-7950 18 gauge, black

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



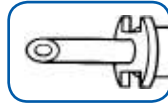
Infusion Cannula

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
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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.

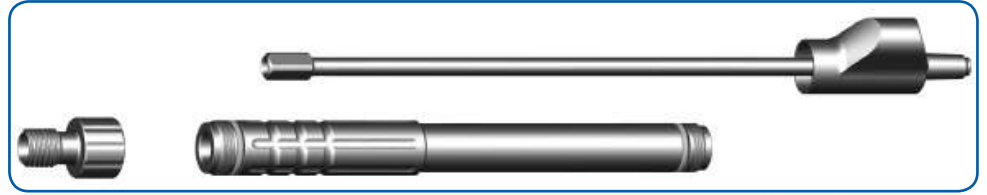
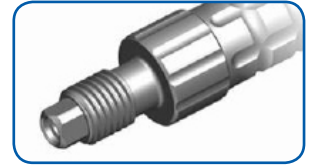
Gauge	ID* (inch)	ID*(mm)	OD** (inch)	OD** (mm)
19g	.028	.70	.043	1.10
20g	.024	.60	.036	.90
21g	.020	.51	.032	.80
22g	.016	.41	.028	.70
23g	.013	.33	.025	.60
24g	.012	.30	.022	.55
25g	.010	.25	.020	.50
26g	.010	.25	.018	.45
27g	.008	.20	.016	.40
28g	.007	.18	.014	.36
29g	.007	.18	.013	.33
30g	.006	.15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

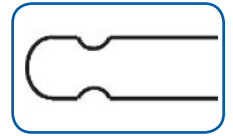
Port size 0.4mm

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

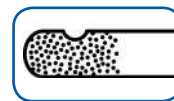
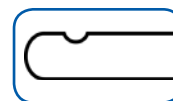
AE7-0117 23 gauge, straight

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

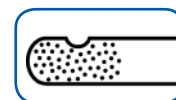
Neuhann Bi-manual Aspiration Handpie - AE7-0119

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.



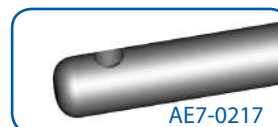
Bimanual Micro Aspirating Hand Piece

AE7-0217 Without capsule polisher

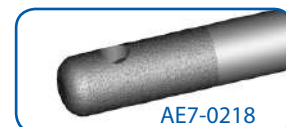
AE7-0218 With capsule polisher

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

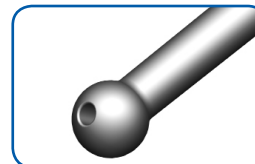
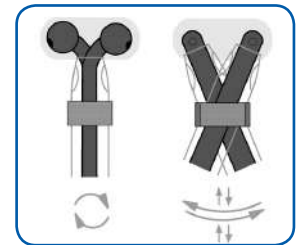
22 Gauge. Features a 1.1mm ball tip that has been mirror polished for effective cortex management that is atraumatic to the capsular bag. Port is at a 45° angle so that tip approaches the posterior capsule at 90°. Available with or without sandblasting.

Approaches posterior capsule at 90° for better occlusion

Design prevents stretching of the incision



'S' at end of item number indicates sandblasting



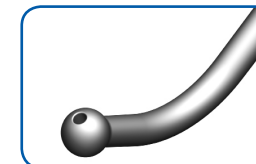
Straight, Polished:
AE7-3060

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

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CHUCK HANDLE/ DIAMOND KNIVES

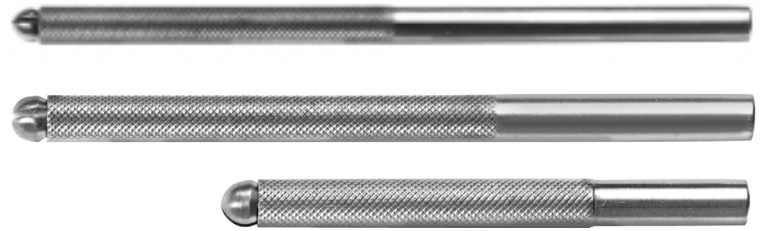
Chuck Handle

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

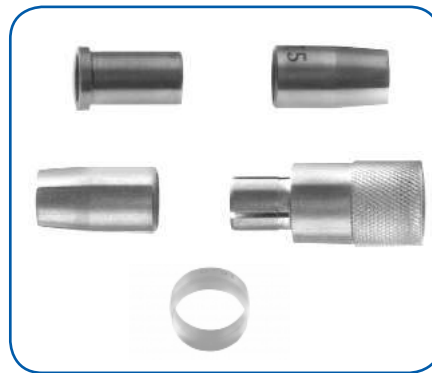


DIAMOND KNIVES

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

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.



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.



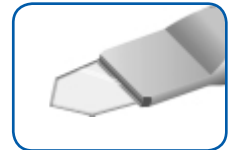
ZAP Zaldivar Anterior Procedure II Diamond Knife – AE-8149

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.



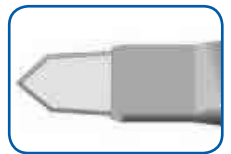
Akahoshi Micro Diamond Knife – AE-8157

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 550 μ .

AE-8187 Depth Settings: 500, 550, and 600 μ .

Overall Length: 136mm
 Trifacet blade for controlled entry. Single-footplate for better visualization. Side-cutting edges for easy wound extension. All-titanium handle.

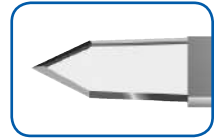


BLADE HOLDER

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.



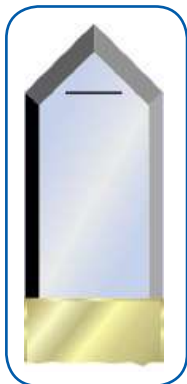
FIXED ANGLE CLEAR CORNEAL DIAMOND KNIVES

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

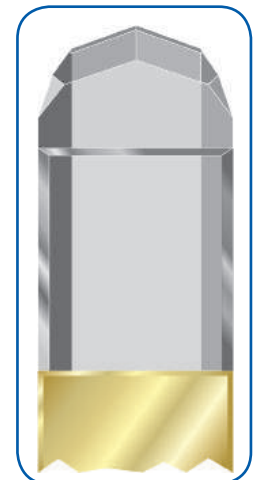
1.3 mm blade width. Straight Handle

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

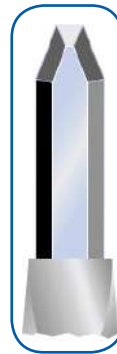
MULTI-INCISION DIAMOND KNIVES

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

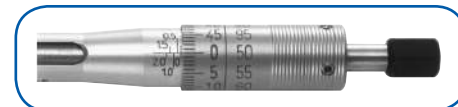


Features






- 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

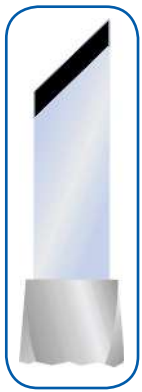
ZAP is the only knife specifically designed for scleral and clear corneal cataract procedures, implantation of ICL[®], and other anterior segment procedures.



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 Lancer Blade



AE-8144

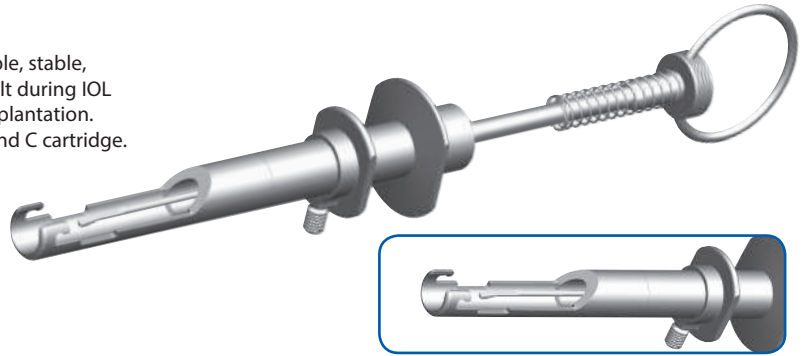
1.0mm length x 0.2mm thickness
Trifacet Blade

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.

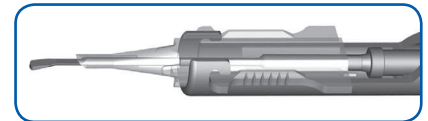
Monarch® is a registered trade mark of Alcon Labs



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

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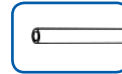
SINGLE USE CANNULAS

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 periorbital 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



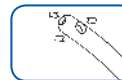
Slade LASIK Irrigating Cannula - AS-7282

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



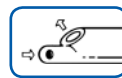
Guell Lasik Cannula - AS-7288

25 gauge,
Overall length: 42mm, Irrigation ports:7
Designed for cleaning the interface while
occupying a minimum amount of space under the flap



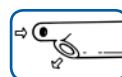
Simcoe Irrigating-Aspirating Cannula - AS-7330

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

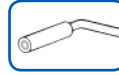


Terry Capsule Polisher - AS-7539

27 gauge

Angle to tip: 7.0 mm

With silicone sleeve for polishing posterior capsule



Nucleus Hydrodissection Cannula

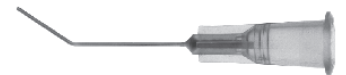
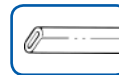
AS-7626 27 gauge

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



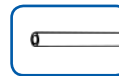
Nucleus Hydrodissection Cannula - AS-7629

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



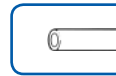
Packo Back Flush Needle - AS-7900*

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

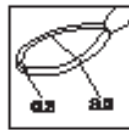
- 2.0mm AS-8312ASB
- 2.2mm AS-8313ASB
- 2.5mm AS-8316ASB
- 2.65mm AS-8318ASB
- 2.8mm AS-8321ASB
- 3.0mm AS-8324ASB

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

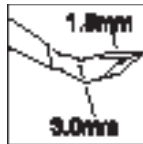
- 0.3mm marking for mandatory scleral depth
- 3.0mm line to gauge distance from anterior arcade vessels
- Ideal for extension of the wound for IOL implantation

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.

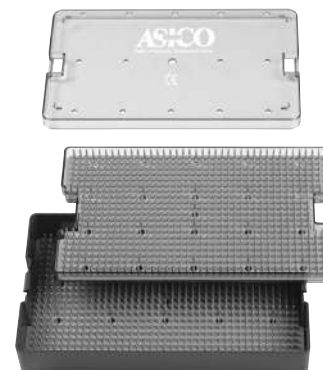
Mat Only – [AST28M](#)

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](#)

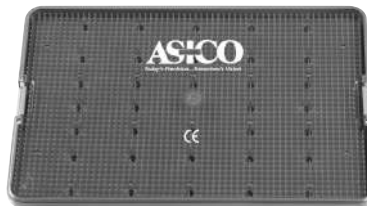
Dimensions: 10.0" x 15.0" x 0.75" (25.4cm x 38.1cm x 1.9cm)

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](#)

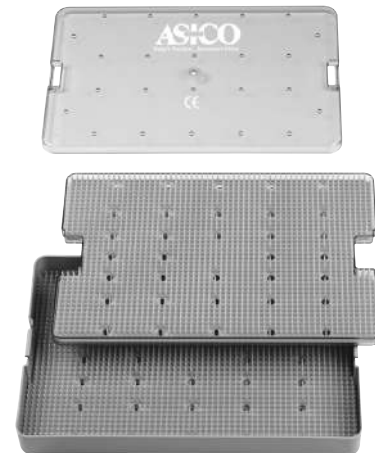
Insert Tray – [AST57IT](#)

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




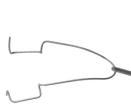


























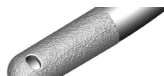






OPEN



ASICO INSTRUMENT SETS

CATARACT PHACO SET	PAGE 193
CATARACT CLEAR CORNEAL SET	PAGE 194
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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
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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

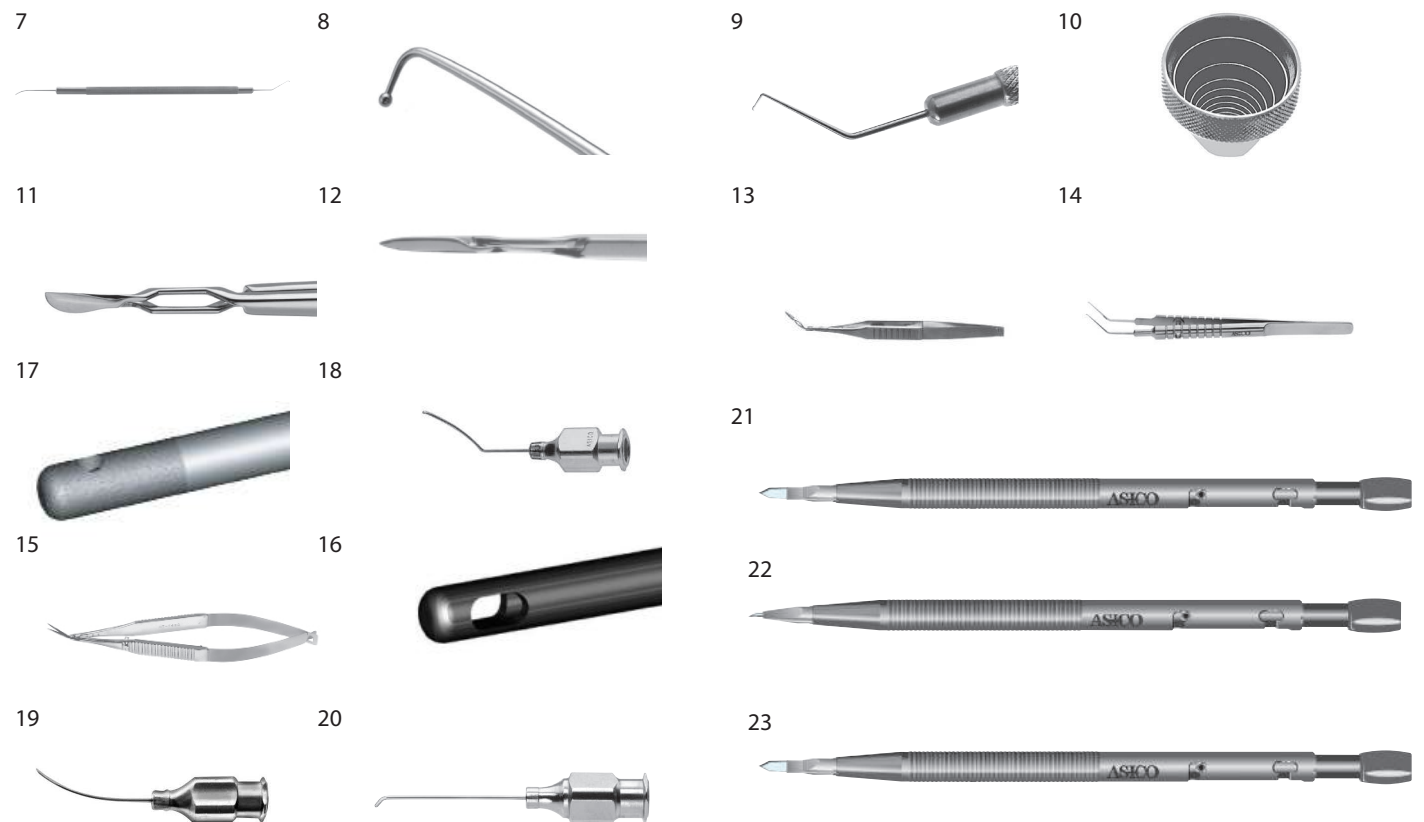
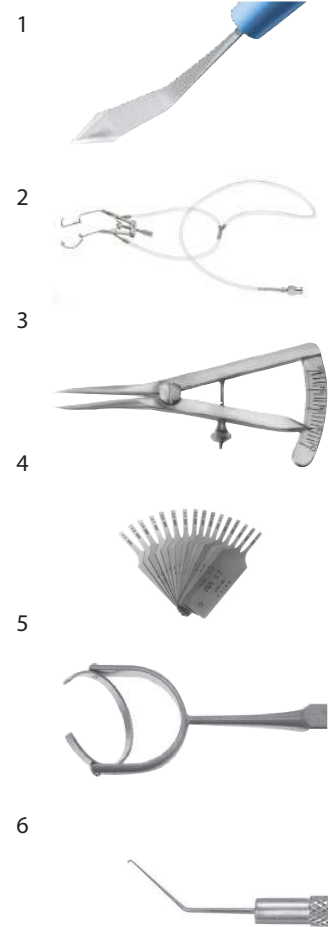
Instrument Type	Item Number	Reference/Options	1	2	3
1 Disposable Blade	ADVANCUT	S: p.58			
2 Speculum	AE-1021	C: p.12, 14-15--S: p.4-7			
3 Caliper	AE-1500	C: p.24-25, 27			
4 Iris Hook	AE-2150	C: p.34			
5 Fixation Device	AE-2198	C: p.34--S: p.10, 18	4 	5 	6 
6 Lens Manipulator	AE-2208	C: p.36-45--S: 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			
22 Iris Scissors	AE-5220	C: p.106-107	19 	20 	21 
23 Capsulotomy Scissors	AE-5490	C: p.107-108			
24 Conjunctiva Scissors	AE-5505	C: p.109--S: p.40			
25 Stitch Scissors	AE-5510	C: p.109, 112			
26 Needle Holder	AE-6141	C: p.114-116--S: p.43	22 	23 	24 
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			
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	S: p.58
2 Aspirating Speculum	AE-1040AN	C: p.12, 14-17, 19--S: p.4-7
3 Caliper	AE-1500	C: p.24-25, 27
4 Incision Gauge	AE-1577T	S: p.8
5 Fixation Ring	AE-2198	C: p.35--S: p.10, 18
6 Lens Manipulator	AE-2208	C: p.36-45--S: p.12-13, 15
7 Chopper + Spatula	AE-2520	C: p.43-45--S: p.13-17
8 Nucleus Sustainer	AE-2530	C: p.43-45--S: p.12-13, 15
9 Nucleus Chopper	AE-2527	C: p.43-45--S: p.13-17, 26
10 Keratometer	AE-2743	C: p.51
11 Vertical Prechopper	AE-4190	C: p.85--S: p.27-28, 30-32
12 Horizontal Prechopper	AE-4192	C: p.85--S: p.27-28, 30-32
13 Lens Implantation (Silicone)	AE-4267	C: p.83-84
14 Capsulorrhexis Forceps	AE-4344R	C: p.91-93--S: p.32-35
15 Capsulotomy Scissors	AE-5490	C: p.107-108
16 Irrigating Handpiece	AE7-0208	S: p.52-53
17 Aspirating Handpiece	AE7-0218	S: p.52-53
18 Hydrodissection Cannula	AE-7621	C: p.127-128--S: p.41-45
19 Hydrodilneation Cannula	AE-7630	C: p.128, 137
20 Dual Port Hydro Cannula	AE-7643	C: p.127-128--S: p.45
21 Paracentesis Diamond Knife	AE-8121	C: p.148-153--S: p.48-50
22 Sideport Diamond Knife	AE-8131	C: p.148-153--S: p.48-50
23 Clear Cornea Diamond Knife	AE-8190	C: p.148-153--S: p.48-50, 58

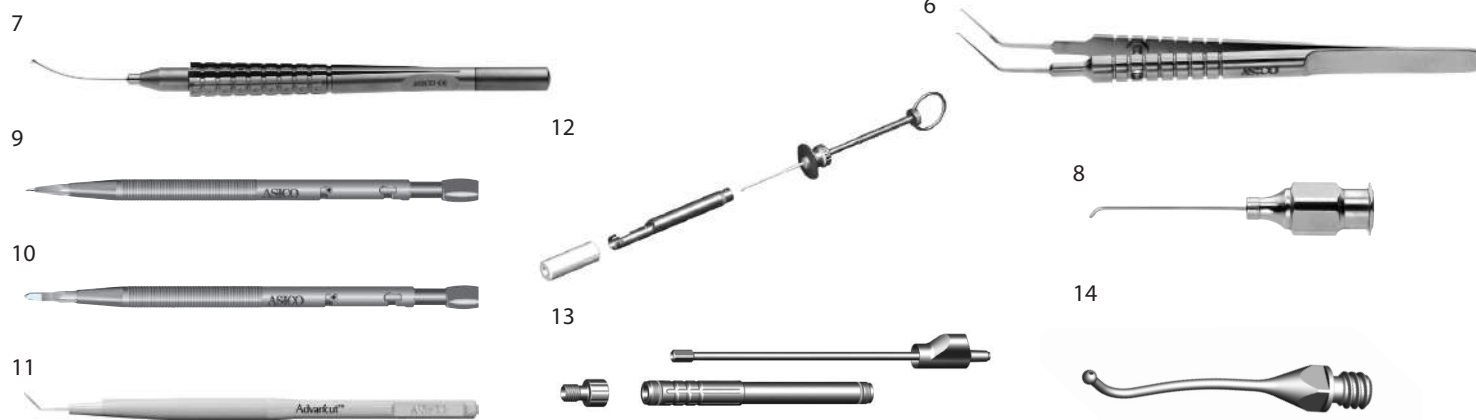


C = CATALOG(1999)

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

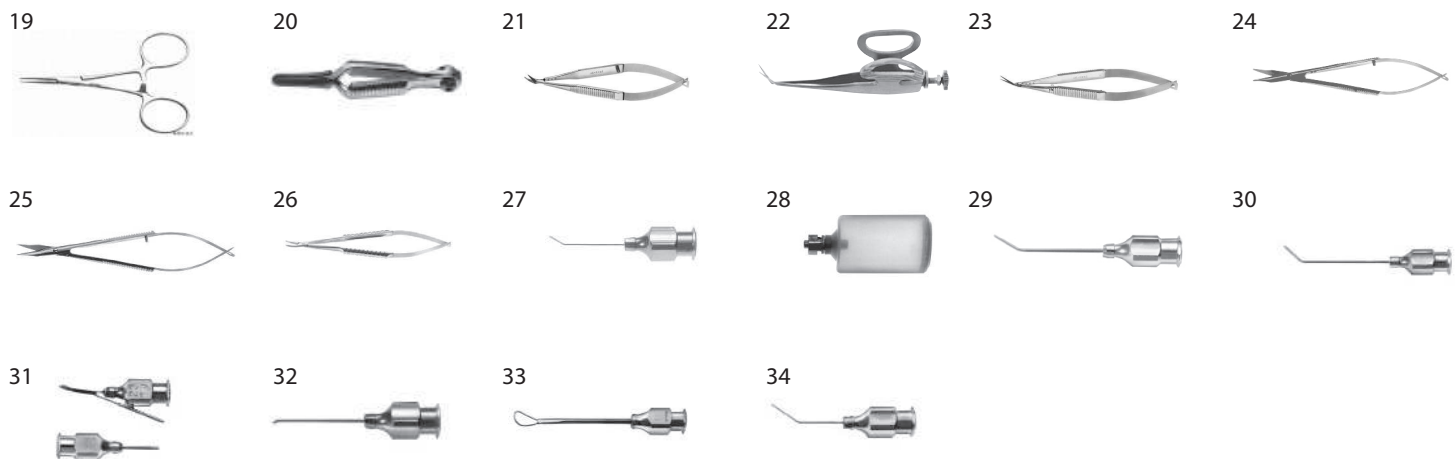
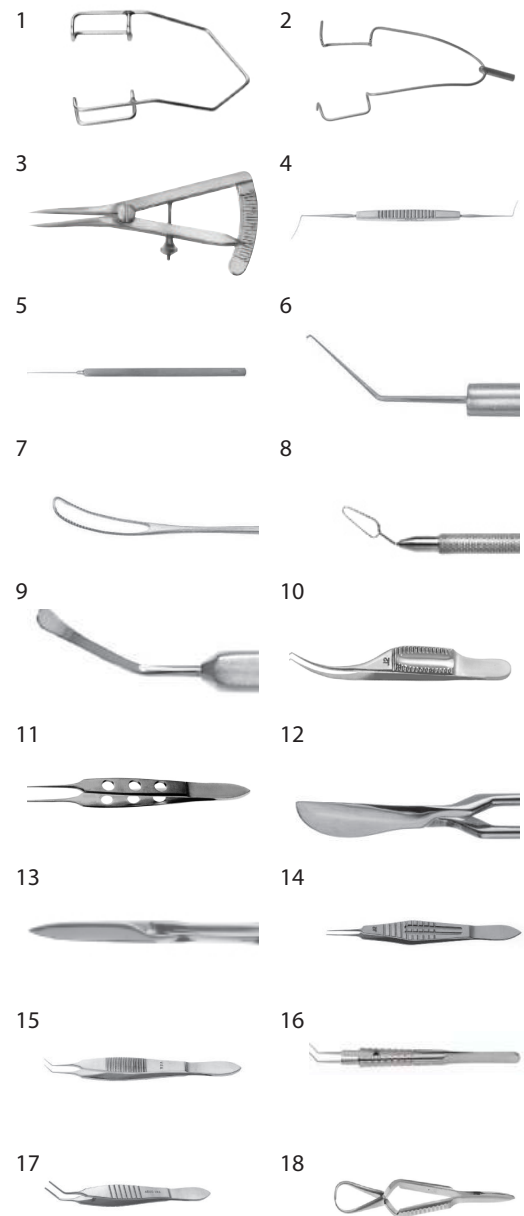


C = CATALOG(1999)

S = SUPPLEMENT(2012)

ECCE Set

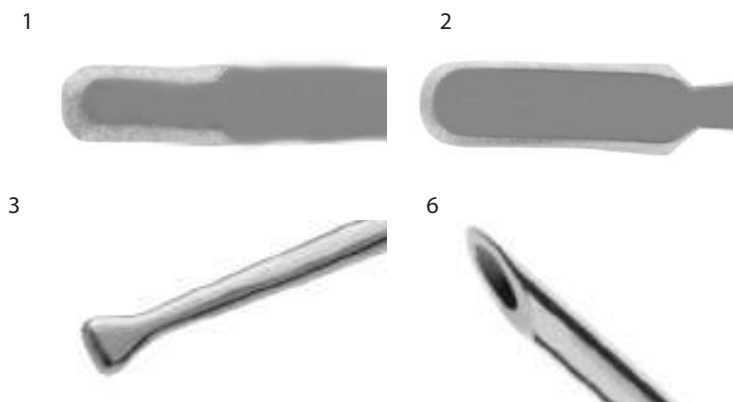
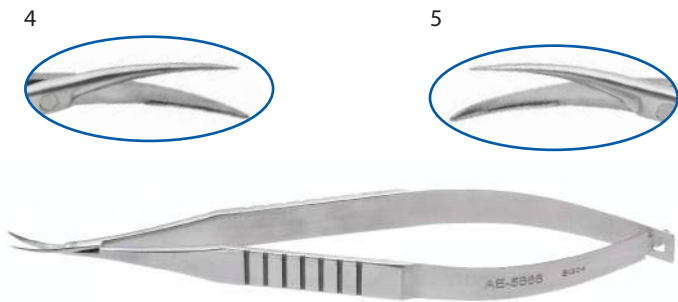
Instrument Type	Item Number	Reference/Options
1 Wire Speculum	AE-1003	C: p.12-22--S: p.4-7
2 Aspirating Speculum	AE-1021	C: p.15-17--S: p.4-7
3 Caliper	AE-1500	C: 24-25, 27-28
4 Cyclodialysis Spatula	AE-2072	C: p.33
5 Iris Hook	AE-2150	C: p.34
6 Lens Manipulator	AE-2208	C: 36-40--S: 12-13, 15
7 Lens 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

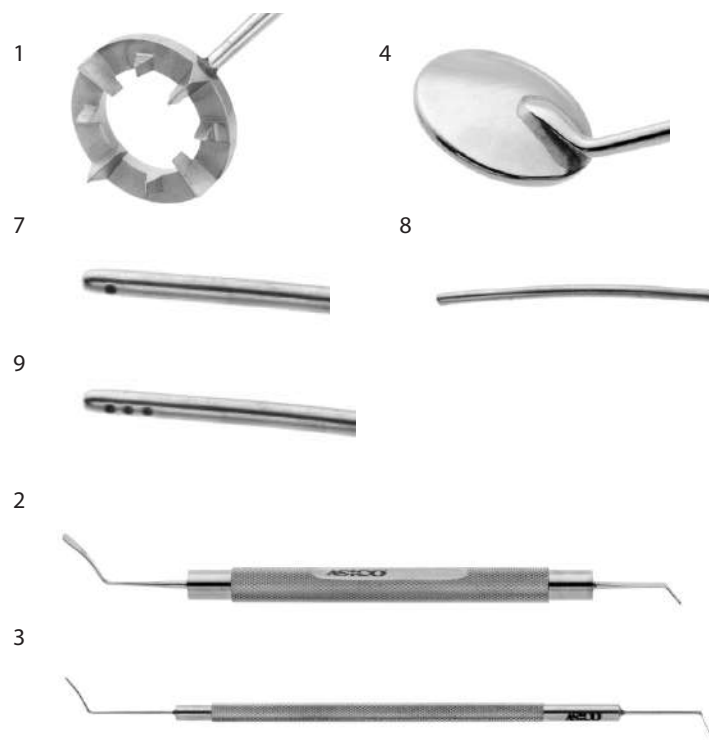
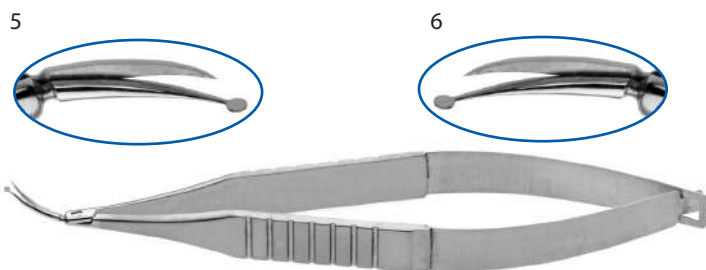
Tan Dalk Set

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



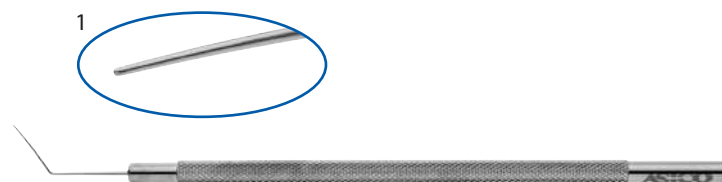
John Dalk Set

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



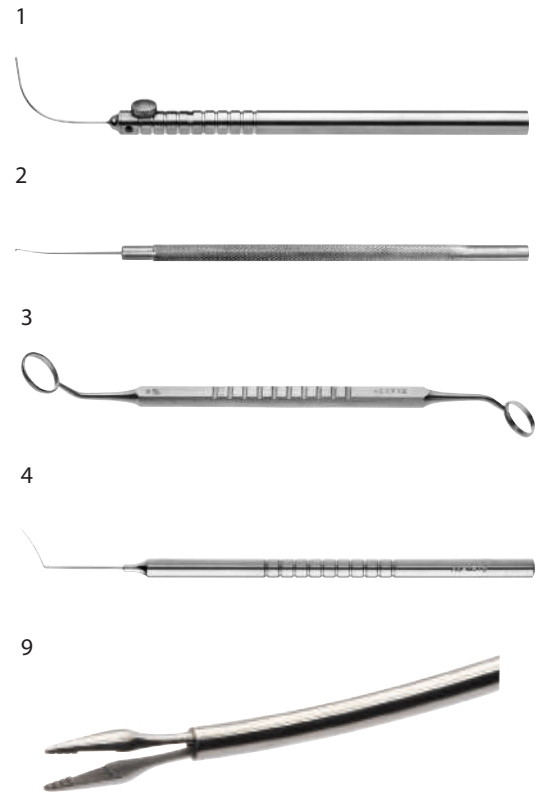
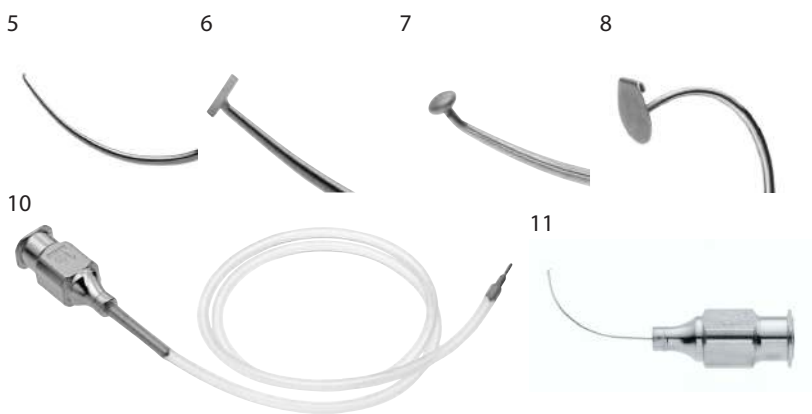
Sarnicola Dalk Set

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



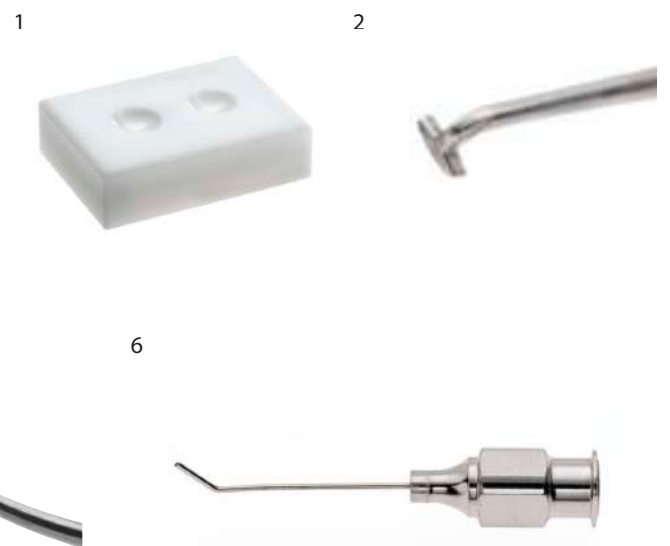
DSAEK Set

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

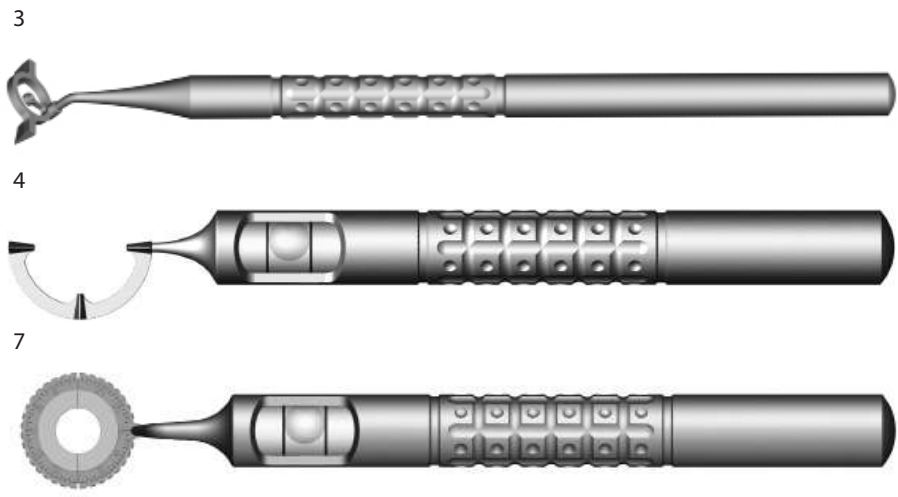
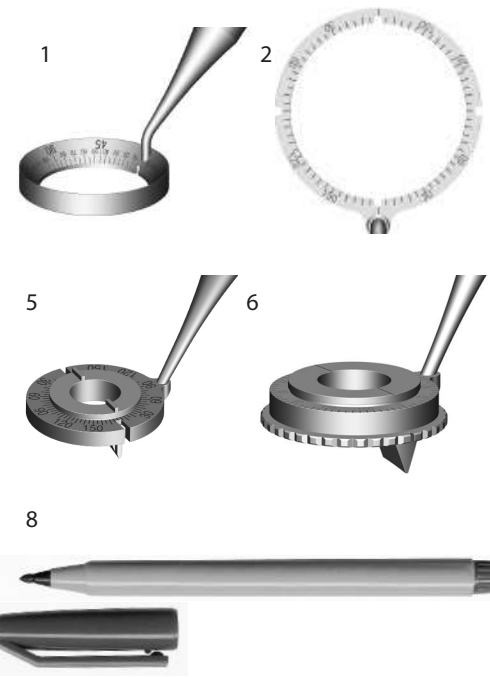


C = CATALOG(1999)

S = SUPPLEMENT(2012)

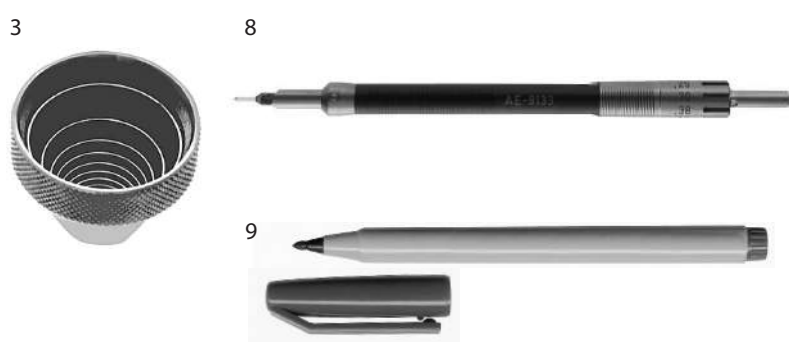
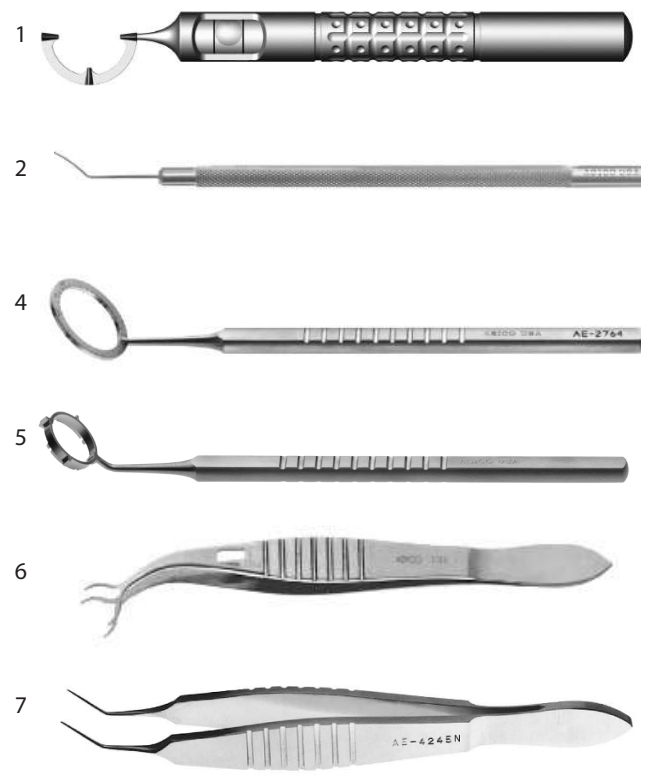
Toric Set

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 Pre-Op + Intra-Op Marker	AE-2799T	S: p.20
8 Marking Pens	AS-1583N	S: p.55



LRI Set

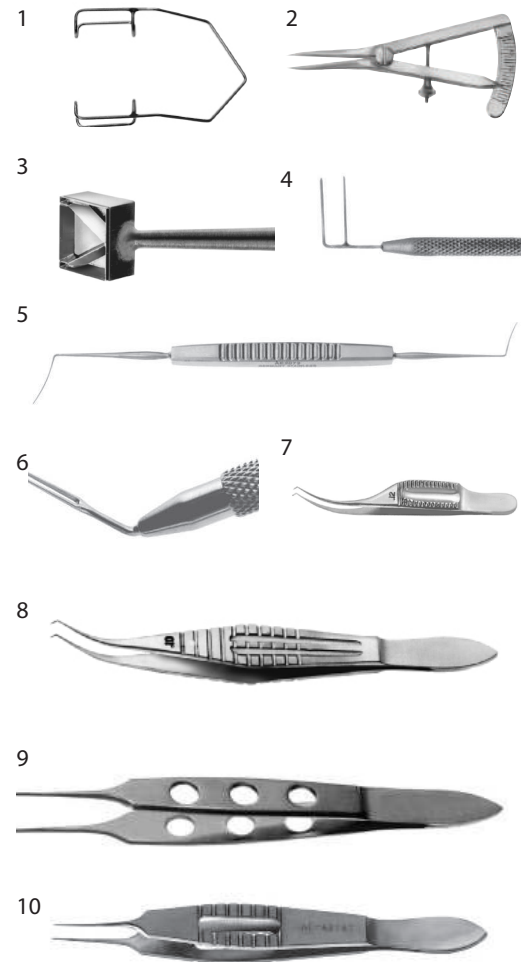
Instrument Type	Item Number	Reference/Options
1 Pre-Op Marker	AE-2791TBL	S: p.19
2 Hook/Manipulator	AE-2219	C: p.33-40--S: p.11
3 Keratometer	AE-2743	C: p.51
4 Gauge	AE-2764N	S: p.18
5 LRI Marker	AE-2863	C: p.58-59--S: p.20-21
6 Fixation Forceps	AE-4155	C: p.73-74
7 Lens Holding Forceps	AE-4245N	C: p.75-77, 79, 81
8 LRI Diamond Knife	AE-8133	C: p.157--S: p.48-50
9 Marking Pens	AS-1583N	S: p.55



C = CATALOG(1999) S = SUPPLEMENT(2012)

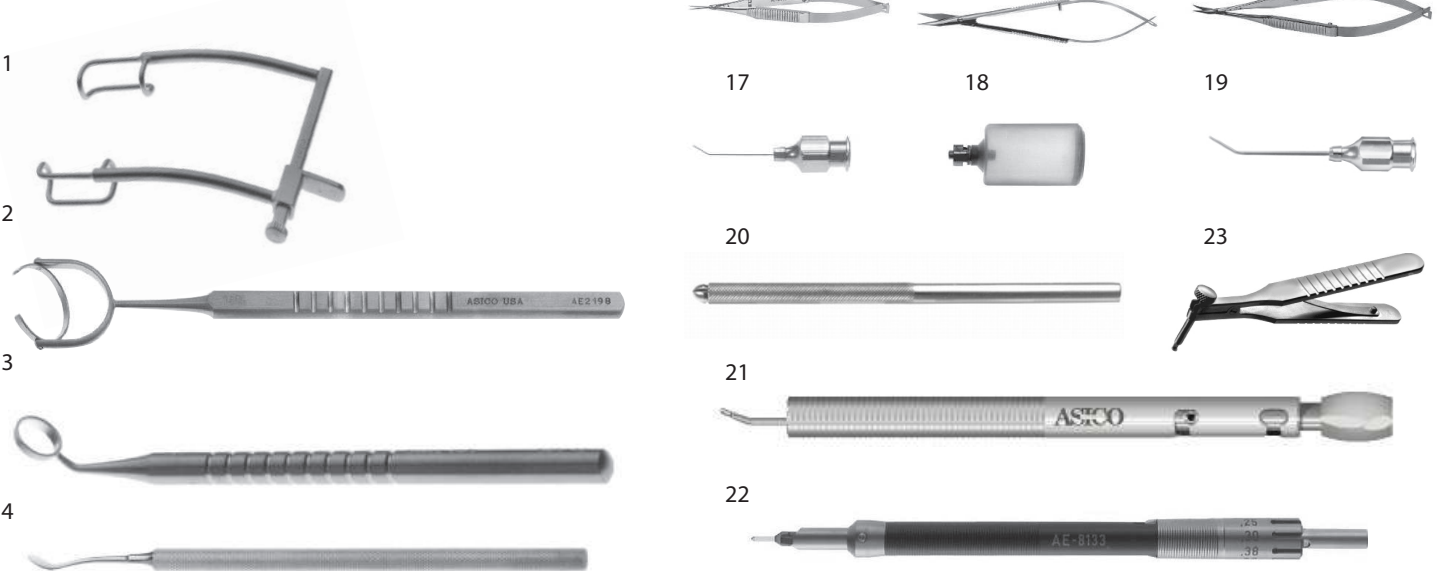
Glaucoma Set

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



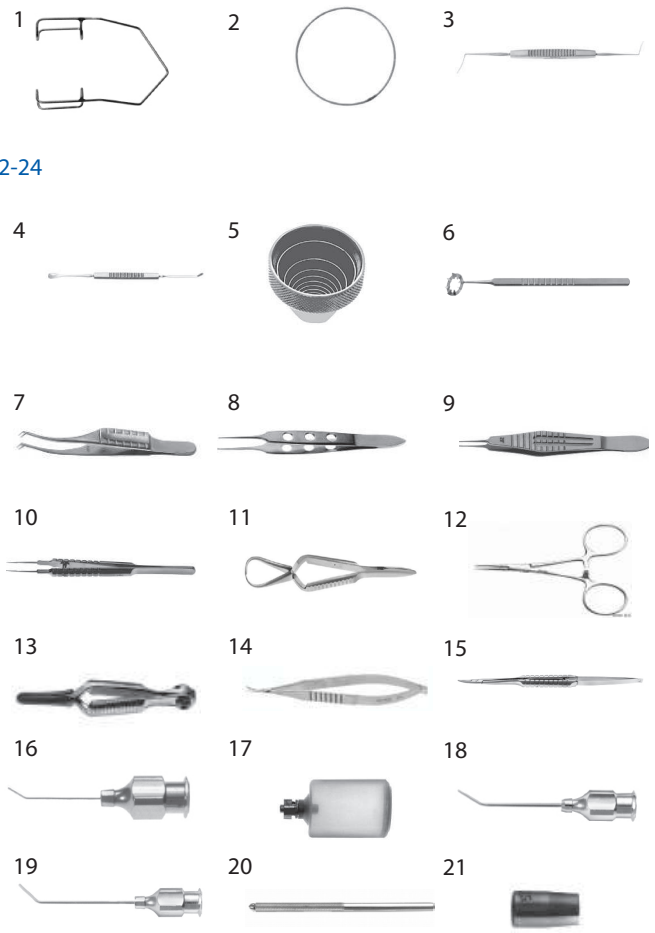
PRK Set

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

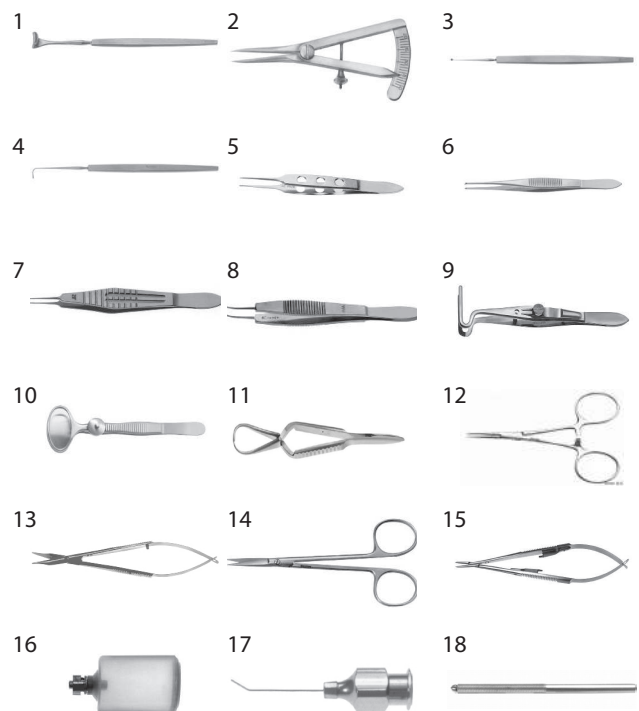


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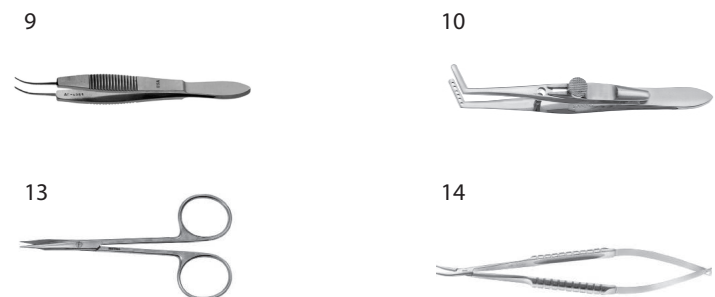
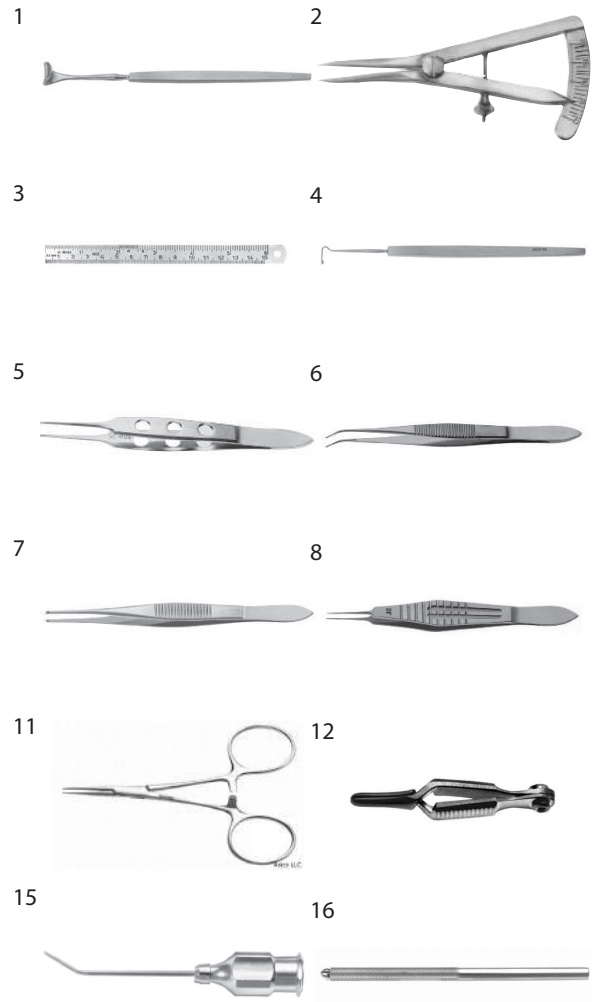
Lid Set

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



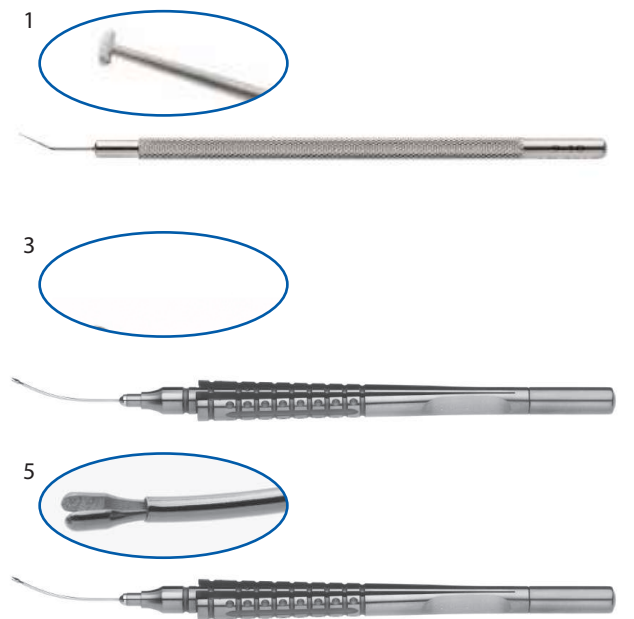
Muscle Set

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

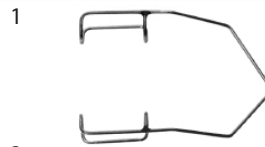
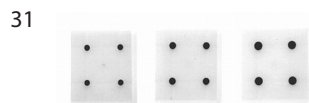


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S = SUPPLEMENT(2012)

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

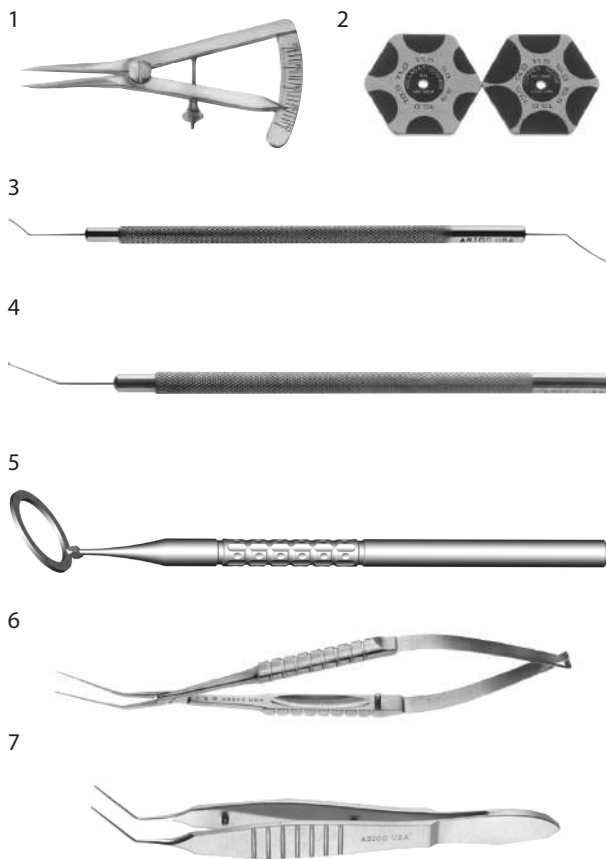


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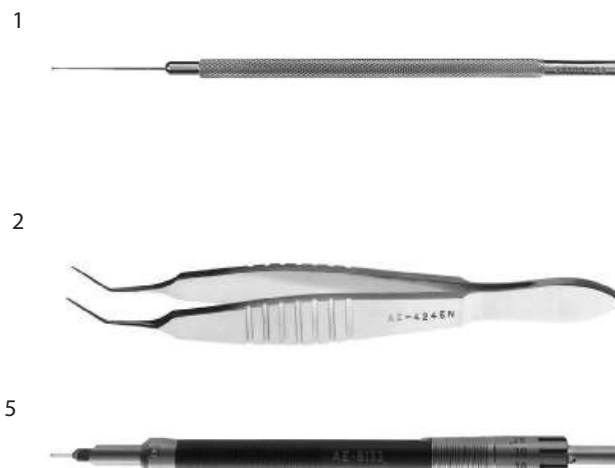
Implantable Contact Lens Set

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



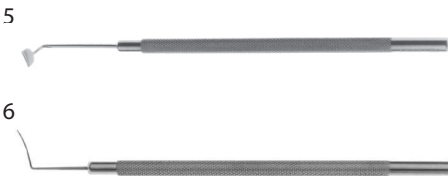
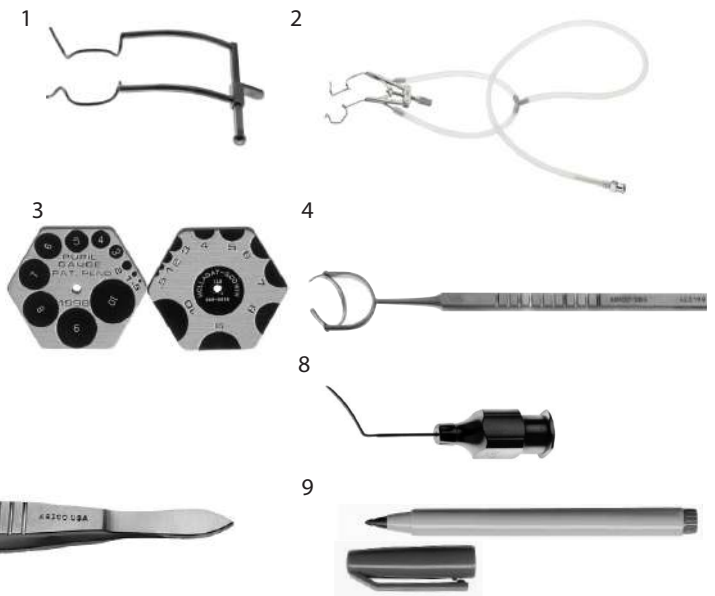
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LASIK Sets

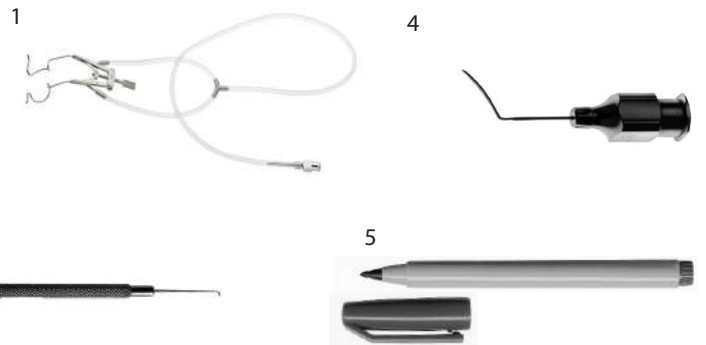
Primary LASIK Set

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)

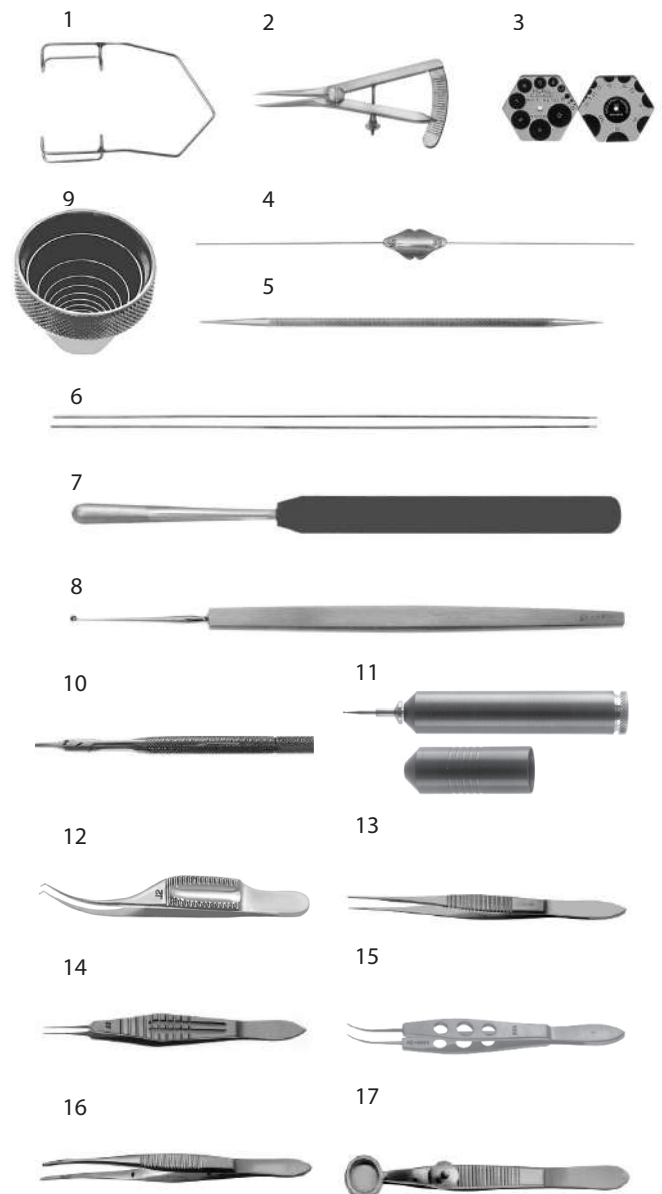
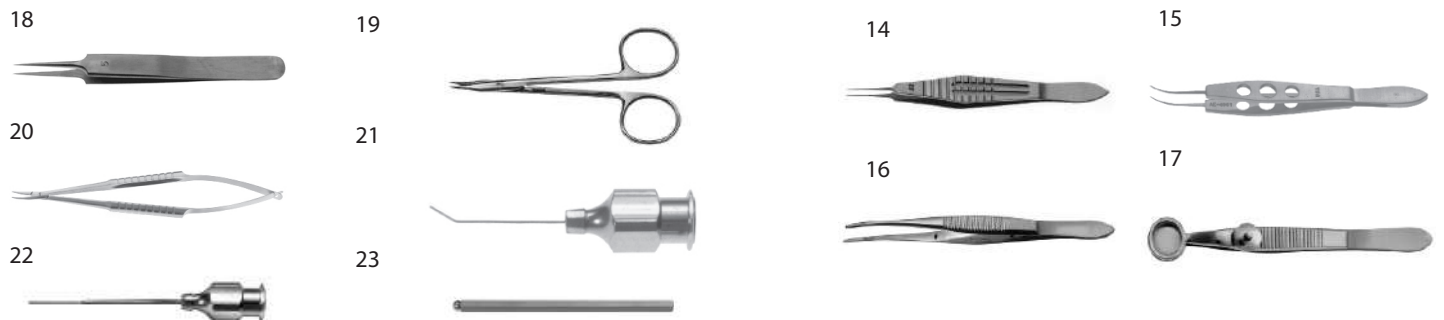
Opticians Set

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)

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