

STORZ[®]
Ophthalmic Instruments

OSHER TIMELESS INSTRUMENT INNOVATIONS

Specially designed by Dr. Robert Osher
from decades of experience.

Crafted by **STORZ**[®]



ROBERT OSHER, MD

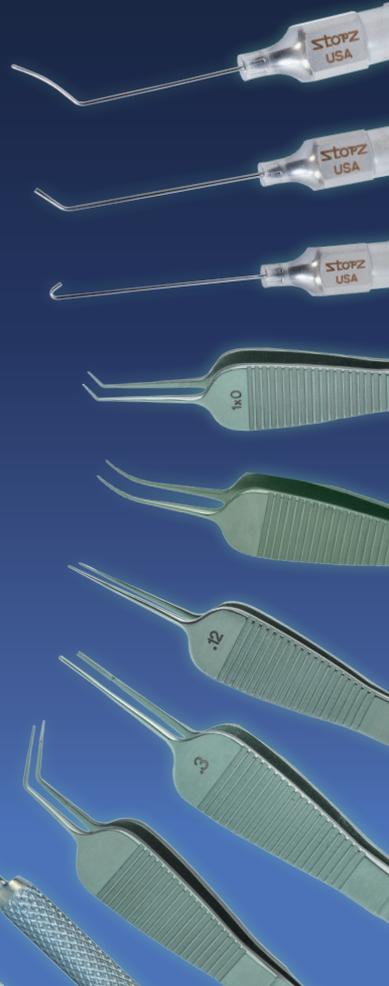
Professor of Ophthalmology
University of Cincinnati
College of Medicine

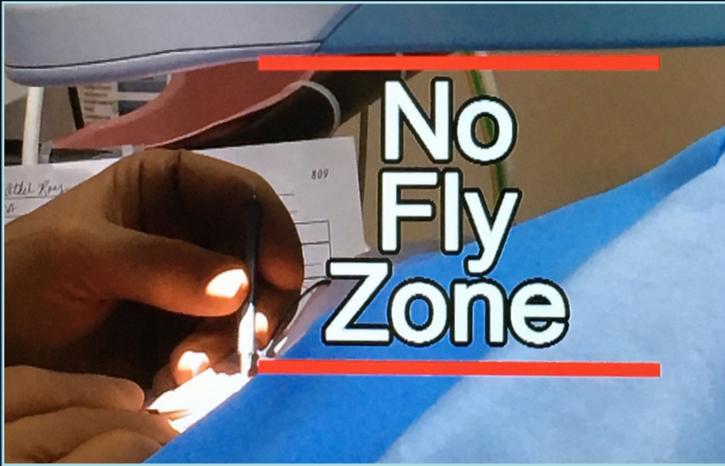
Medical Director Emeritus
Cincinnati Eye Institute

Editor of *Video Journal of
Cataract, Refractive and
Glaucoma Surgery*

Robert Osher M.D.

Dr. Osher receives no royalties for instrument design.





As the space between the microscope and the eye is occupied by new lasers, aberrometers, toric alignment devices, OCT, etc., the restricted area for sterile instrumentation is defined as the "no-fly zone." This instrument set was conceived to allow the cataract surgeon a CHOICE between either traditional design or an innovative "no-fly" design in which fine finger control rather than wrist movements are utilized.

Instruments are presented in order of use during routine surgery followed by a second section featuring instruments for special situations.

I hope you find this new brochure of the featured instruments to be helpful in your surgical practice.

Sincerely,

Robert Osher M.D.

Robert Osher, MD

Dr. Robert Osher is Professor of Ophthalmology at the College of Medicine of the University of Cincinnati and Medical Director Emeritus of the Cincinnati Eye Institute. His practice has been limited to cataract and implant surgery by referral for over 40 years.

The American Society of Cataract and Refractive Surgery has given Dr. Osher its two highest honors: the prestigious Binkhorst Medal and the Innovator's Award. He has also received the Lifetime Achievement Award and the Kelman Award, the highest honor given to a cataract surgeon by the American Academy of Ophthalmology. He is the Founder and Editor of the Video Journal of Cataract, Refractive, and Glaucoma Surgery.

The Beginning



E7003 Osher Magnifier HD for Surgical Scrub Tech

This innovative, enhanced design offers a double hinged magnifier to provide easy positioning of the magnifier in the operating room and provide more flexibility in viewing delicate instrument tips. It is also designed to facilitate adjustments of phaco sleeves and I&A handpieces or even loading IOLs into injectors in the operating room.

1



E6327 Osher Fixation Ring

Designed to gently stabilize the globe during the incision construction. One design for use in either left or right eye. Overall length: 77.2mm, 3.04 inches.



2



E6315 Osher Sweep

This instrument is designed to sweep chemois, subconjunctival anesthesia and BSS ballooning out of the way, allowing the surgeon to make a more precise incision or to recover optimal visualization. Overall Length: 137.6mm, 5.42 inches.

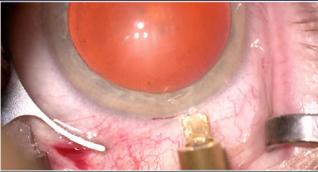
3

The Incision and Capsulorhexis



E0108 LS Osher Trifacet Groove/ Tunnel/Stab Diamond Knife

Excellent control for making the groove and extending the blade for constructing the tunnel incision. It is also excellent for creating the 2 or 3 plane incision. Pre-set step at 0.3mm. J-slot mechanism ideal for creating the second stab incision. Blade width: 1.0mm, thickness 0.1mm. Overall length (blade retracted): 123mm, 5.4 inches.



4



E6316 Osher Capsulorhexis Marker

The 6.05mm (diameter) ring on this instrument is designed to leave a circular mark the cornea to assist the surgeon in creating a precise capsulorhexis 4.8mm in size, irrespective of corneal diameter or pupil size.



5

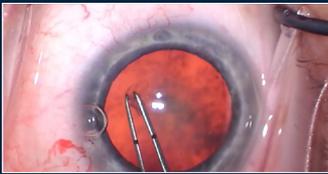
The Capsulorhexis and Hydrodissection



ET2012 Devgan Micro Capsulorhexis Forceps

The ultra-fine tips of this cross action forceps are an excellent choice for small incision procedures, including sub-2 mm coaxial phaco incisions. The mildly sharpened tips are designed to allow the surgeon to puncture the capsule and securely grab the capsule. 2.5 mm and 5.0 mm marks on the shafts are designed as a measuring tool, providing the radius and diameter of the capsulorhexis as it is being created. An iris stop feature is designed to provide the surgeon with excellent grasp of the capsule without engaging the iris. The cross action handle is

designed for excellent alignment of the fine tips, reducing wound gape, loss of viscoelastic and AC shallowing. Overall length: 119mm, 4.7 inches.



6



E6310 Osher Angled Hydrodissection Cannula

This cannula produces a broad, flat stream for creating a beautiful fluid wave separating the lens contents from the capsular bag. The angled shaft allows easy access to all meridians. 3.5mm tip, 45° angle from the shaft. Overall length excluding hub: 28mm, 1.1 inches.

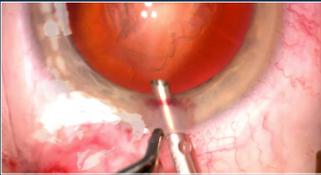
7

Phaco Entry Forceps



ET6322 Osher Incision Forceps

The 3 x 0.12mm teeth are uniquely designed on one arm to internally fixate the incision while the rounded, highly-polished, smooth arm grasps the exterior cornea to delicately hold the tissue providing counter-traction to facilitate entry of the ultrasound needle, preventing corneal abrasion. This instrument has a flat, serrated handle with dull finish. Overall length to 113.2 mm, 4.5 inches.



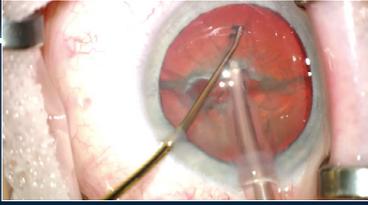
8



Instruments should be designed to facilitate a routine or complex step in the surgical procedure."

Robert Osher, M.D.

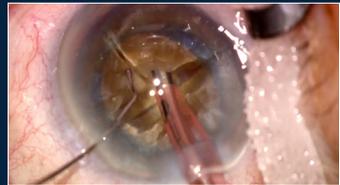
Choppers



ET6314 Osher No Fly or Standard Double Finger Chopper

Designed to divide, rotate, lift, and chop the routine nucleus by taking advantage of the extra surface area of the blades and the gentle curve of the shaft. For right-handed surgeons. Overall length: 104mm, 4.1 inches. Also available in standard length: E0717 L.

9



E6319 Osher Mature Nucleus Chopper

Ideal for cracking, manipulating or chopping a hard cataract during phacoemulsification. The increased length and cutting edge are designed specifically for the mature cataract. The obtuse angle of the terminal bend facilitates entry through a stab incision and allows access to the peripheral lens. The gentle bend to the shaft improves the mechanical advantage of the chop. The olive tip is designed to protect the posterior capsule during chopping and manipulation. Overall length: 116.3mm, 4.58 inches.

10

Capsuleguard I/A Handpiece

	MICS1.8mm	Standard Incision 2.2-2.8mm
Straight	85914ST 85914S	85912ST 85912S
Curved		85913ST 85913S
45°	85915ST 85915S	85910ST 85910S
STELLARIS® SYSTEM OTHER SYSTEMS		



This instrument, with designs available for Stellaris, Stellaris Elite and other systems, features a flexible tip design for effective cortical removal. The smooth irrigation and aspiration ports eliminate sharp edges for reduced risk of capsule rupture. The silicone tip design facilitates cortex removal, capsule polishing, viscoelastic removal and IOL manipulation in the capsular bag and the semi-transparent silicone sleeve provides visualization. A fully assembled single-use design is provided for consistency and convenience. Packaged sterile. Single-Use. 12/box.

11

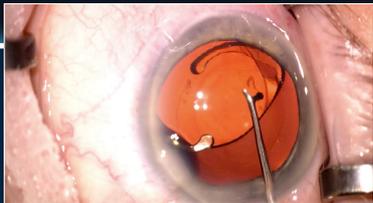


E6312 Osher Sub Incisional Cortex Cannula

Excellent for removing difficult subincisional cortex and designed at the optimal angle for entering the capsular bag. The 27 gauge cannula with "J" tip, angled 30° from the shaft, facilitates passage through a 2.2mm phaco incision. Tip length is 2.5mm. Works well within viscolastics as well as balanced salt irrigating solution and can be controlled with 1cc of BSS with a 3cc syringe. Overall length excluding hub: 28mm, 1.1 inches.

12

Helpful Hooks

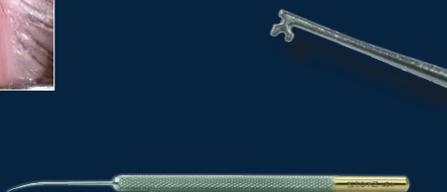


ET6315 Osher No Fly or Standard Y-Hook

A time-tested design for manipulating IOLs. The “Y” hook is a great choice for using the optic-haptic junction for rotating the intraocular lens or maneuvering haptics for any reason. The dull finger reduces the risk of scratching or damaging the optic and is capsule friendly. Overall length: 105mm, 4.1 inches.

Also available in standard length: E0577.

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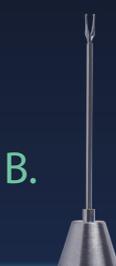
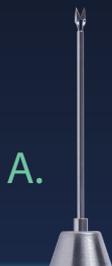
ET6313 Osher No Fly or Standard Manipulator

This manipulator serves as an all-purpose instrument. Provides countertraction during IOL injection or when grinding nucleus fragments into the I & A. It may also be utilized as a ramp when ushering the IOL out of the eye during explant procedures.

Overall length: 105mm, 4.1 inches. Also available in standard length: E0606.

14

Intracameral Scissors and Forceps for Membranectomy, Capsular, and Iris Surgery



A. Intracameral Scissors

These exquisite intracameral instruments were designed to cut capsule, membranes, adhesions, and iris tissue at multiple meridians. One interchangeable handle fits all scissors and one handle fits forceps. The surgeon can select from the following:

- Straight: ET6325
- 45-degree: ET6326
- 90-degree: ET6327



Tips for use with reusable titanium handle: ET6323.

B. Intracameral Forceps

These exquisite intracameral instruments were designed to grasp membranes, adhesions, and iris tissue at multiple meridians. The surgeon can select from the following options, all on an interchangeable handle:

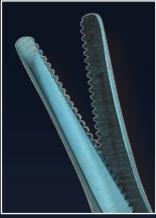
- Straight: ET6328
- 45-degree: ET6329
- 90-degree: ET6330



Tips for use with reusable titanium handle: ET6324.



Scissors and Forceps for IOL Explantation



C. ET1306 Osher IOL Cutting Scissors

The blades of this scissors are narrow and provide entry through a 2.75 mm incision. Serration in the blade allows secure-cutting of the implant without excessive movement or tidily-winking. Ideal for acrylic and silicone implants. Overall length: 91mm, 3.6 inches.

D. E6314 Snyder-Osher IOL Forceps

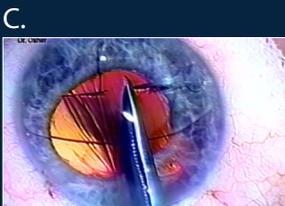
This forceps is designed to fit through the stab incision to grasp the IOL during cutting. It is also ideal for grasping any remaining slippery IOL fragments. Overall length: 97.3mm, 3.83 inches.

E. ET6321 Snyder-Osher IOL Scissors

This scissor is designed with strong, sharp blades able to cut an IOL through a 2.2 mm incision. The indentations on the lower scissor blade reduce the risk of the lens slipping while cutting. The handles are designed with a special geometry to give the blades a large opening angle. Overall length: 148.0 mm, 5.8 inches.

F. E1961 HAP Rappazzo Haptic Scissors

Designed to cut a 3-piece haptic in preparation for removal of IOL. Pointed 1mm blades with guillotine action. 1.5mm inner jaw space. Short squeeze style handle with dull finish. Overall length: 81mm, 3.2 inches.



Cannulas



For the White Cataract

G. E6311 Osher Dye Cannula

This cannula is designed for controlled placement of dye either below an OVD or for injection into the anterior chamber by dropping pellets of dye onto the anterior capsule rather than injecting a stream across the chamber toward the zonules. Designed to conform to the lens curvature. Overall length excluding hub: 17mm, 0.7 inches.

For Positive Pressure

H. E0531 Osher Air Bubble Removal Cannula

27 gauge, straight shaft with curved tip upward for removing air bubbles from the corneal dome. Polished finish. Overall length excluding hub: 25mm, 1.0 inches.

G.



H.



For Torn Posterior Capsule



For Reverse Optic Capture

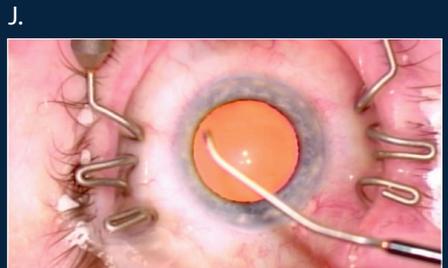
I. ET6312 Osher Reverse Capture Hook

This instrument was developed for when the surgeon wants to achieve reverse optic capture or when lens exchange is necessary. The angled shaft and hook tip engage and cradle the IOL from behind. This design allows reverse capture of the IOL or maneuvering the lens forward in the eye. Overall length: 101mm, 4.0 inches.

For Descending Nucleus

J. E6321 Osher Emergency Nucleus Vectus

This emergency instrument was designed to be quickly introduced through the small incision to catch the nucleus or fragments as they begin to descend through a torn posterior capsule. The serrations and the malleable ski tip serve to facilitate recovery. Overall length: 122.2mm, 4.81 inches.



Suboptimal Pupil, Hemorrhage, and Closure



K.



L.



M.



For the Small Pupil

K. E6322 Osher Push/Pull Collar Button Hook

This hook is a time-tested design that will facilitate inspection by either gently displacing or retracting the iris. It can also be utilized for stretching a small pupil. Overall length: 114.5mm, 4.51 inches.

For Bleeding

L. Osher Point Cautery - COMING SOON

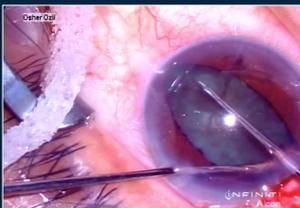
This delicate instrument is designed to achieve precise and atraumatic hemostasis at the incision site or anywhere that the surgeon encounters bleeding. Overall length: 118.8mm, 4.68 inches.

For Closing Conjunctiva

M. S2050 15 Osher Bipolar Conjunctival Forceps

Designed to seal conjunctival incision, the curved shaft with 2mm angled platform. Wide serrated handle with dull finish. Overall length: 116mm, 4.6 inches.

K.



L.



Instruments for 3-Piece IOL Insertion and Intracameral Refolding



N. E2976 Osher-Seibel Folding Forceps

A gently curved forceps designed to easily fold a three piece lens. The serrated handle ensures a firm grip throughout the folding procedure. Overall length: 107mm, 4.2 inches.

O. ET2905 Buratto Insertion / Refolding Forceps

Angled insertion forceps designed for inserting folded IOLs, or refolding then explanting IOLs. Titanium. Overall length: 104mm, 4.1 inches.

P. E6318 Osher Folding Spatula

This instrument is designed to facilitate intraocular folding of the IOL when explantation is needed. Overall length: 115.3mm, 4.54 inches.

N.



N. and O.



O. and P.



Intraocular Suturing, Intrasccleral Haptic Fixation, and Astigmatism Correction



Q.



R.



Q. E6323 Osher Suture Retrieval C Hook

This instrument was designed to capture nylon, prolene, or Gortex when the surgeon is performing either iris or IOL suturing inside the eye. Overall length: 124.9mm, 4.92 inches.

R. E9022 Osher-Neumann Corneal Marker 8 Line

8 Line. Marks radial lines 4mm long. Inner diameter of blades is 4.5mm. Marks on top of the ring help in centering marker and semi-sharp blades allow minimal marking pressure. Useful in intrasccleral haptic fixation and sutured IOLs where precise marking is needed. Overall length: 109mm, 4.3 inches.

S. Osher Astigmatic Meridian Ring - COMING SOON

This modification of the original Mendez ring is used to identify and confirm the target meridian for astigmatic keratotomy, limbal relaxing incisions, and toric lens implantation. Overall length: 107.4mm, 4.23 inches.

Standard Instruments



T.



U.



V.



W.

T. E3807 WO Osher Needle Holder 9mm Curved Delicate

Delicate curved and tapered 9mm jaw for passing the needle and for grasping fine 10-0 sutures. Round knurled handle. Without lock. Overall length: 110mm, 4.3 inches.

U. E3219 Osher Universal Scissors

Thin curved blades provide precise cutting of corneal, scleral or conjunctival tissue. Blunt tips with gentle curve. 21mm from mid-screw to tip. Flat serrated handle with polished finish. Overall length: 119mm, 4.7 inches.

V. E1717 Osher Conjunctival Forceps

The multiple blunt interdigitations on each shaft are excellent for secure fixation of the conjunctiva. Can be used for countertraction during AK or LRI. Overall length: 108mm, 4.3 inches.

W. E6325 Osher Internal Caliper

This instrument is designed to accurately measure the actual incision size for lens removal, IOL implantation, and more complex IOL exchange. It is especially helpful when a small incision needs to be enlarged. Overall length: 68mm, 2.68 inches.

Instrument Trays

E7409 and E7406



Standard Instruments



X. **ET6319 Osher No Fly or Standard 0.3mm Fixation Forceps**

Straight shafts with 5.8mm tying platform and 45° 0.3mm teeth 1 x 2. Flat, serrated handle with dull finish. Overall length: 88mm, 3.5 inches. Also available in standard length: E1717.

Y. **ET6318 Osher No Fly or Standard 0.12mm Suturing Forceps**

The Elschmig teeth of these forceps are ideal for grasping the cornea or sclera during suturing. Delicate tying platform handles the finest suture material. 0.12mm, 1 x 2 teeth, 3mm platform. Flat, serrated handle with dull finish. Overall length: 88mm, 3.5 inches. Also available in standard length: E1564.

Z. **ET6316 Osher No Fly or Standard Tying Forceps**

The forceps have curved shafts and fine tips with 6mm tying platform, to allow easy tying lens when suturing an incision. Flat serrated handle with dull finish. Overall length: 87mm, 3.4 inches. Also available in standard length: E1808.

AA. **E1810 Osher Tying Forceps Ultra Fine**

Curved shafts and tips with 6.5mm tying platform. Flat serrated handle with dull finish. Overall length: 102mm, 4.0 inches.



INSTRUMENT REPAIRS

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