LASIK - What are my Choices?

A COMPREHENSIVE SELECTION OF INSTRUMENTS FROM KATENA

The growth of LASIK surgery has dramatically increased during the last three years and continues to grow at a record pace. This proliferation has also led to the development of many new instruments. To simplify the selection of the appropriate instrument for the individual surgeon’s technique, this issue of the Katena Globe News will be devoted to describing LASIK surgery instruments available from Katena.

Retracting the Lids - An appropriate speculum must be selected to provide adequate exposure of the globe for placement of the microkeratome vacuum ring. Most surgeons prefer the adjustable Lieberman speculum which retracts the lids sufficiently to provide unobstructed access for the microkeratome. Several models are available with and without aspiration.

Preparing the Cornea - Cleaning and preparing the cornea is usually done with a wet sponge spear. While hydrocellulose sponge spears, such as Katena’s K-Sponge, absorb fluids faster and are preferred for cataract surgery, they are not recommended for LASIK surgery. Synthetic sponges, such as Katena’s K-Sponge-II (K20-5010), absorb fluids at a slower rate, however, they are virtually lint free because of their closed cell construction. This lint free feature is extremely important to ensure a clean, foreign body free flap interface.

Corneal markers are designed to place identifying patterns on the cornea. A single

Katzen Flap “Unzipper”

K3-2534 Katzen Flap “Unzipper”, double end - This instrument features a modified Sinskey hook to locate and expose the flap edge and a unique spatula with beveled notches for “unzipping” the flap edge. The smoothly polished bi-convex spatula can also be used for lifting and repositioning the flap.
round marker is commonly used to facilitate the centration of the microkeratome vacuum ring. Various markers with asymmetrical patterns are available to provide landmarks for realignment of the flap and for identifying the epithelial side of a loose cap.

**Handling the flap** - Specific instruments have been designed for handling the flap. Depending on the surgeon’s preference, this can be done with a spatula and/or forceps. Spatulas typically have a beveled front edge, to easily enter the flap interface, and smoothly rounded surfaces to elevate and reposit the flap. Forceps feature specially designed jaws to securely grasp and lift the flap.

**Flap protectors** - shield the corneal flap during laser ablation. They have a dull finish to minimize reflections. Single and double-ended models are available for either nasally or superiorly hinged flaps.

**Fixation rings** - are used to stabilize the globe and prevent inadvertent movement of the eye during laser ablation.

**Irrigation** - Cannulas are used for irrigating the eye before and after repositing the flap. Katena offers a number of models which are designed to easily enter the interface and feature single or multiple ports.

---

**LIEBERMAN STYLE SPECULUMS**

K1-5671
Kratz style open blades provide unobstructed access to the eye.

K1-5675
V-shaped open blades help retain the surgical drape under the lid.

K1-5678
Thin solid blades prevent eyelids and lashes from entering the surgical field.

K1-5680
Reversible with thin solid blades. Can be placed either temporally or nasally.

K1-5171
Kratz style blades with aspirating ports to evacuate fluid from the surgical field.

K1-5175
V-shaped blades with aspirating ports to remove fluid and retain the surgical drape under the lid.

---

**CORNEAL MARKERS**

**Hoffer Corneal Markers**

K3-8418 7.0mm  K3-8422 8.0mm  K3-8426 9.0mm

Used to imprint a circular mark on the cornea for centering the microkeratome vacuum ring. Three diameters are available to accommodate a variety of vacuum ring sizes.

**MARKING PATTERN**

K3-7720 Mendez LASIK Marker – a modified cross pattern with two opposing radial marking lines and two asymmetrically placed parallel marking lines which extend to the limbus and provide landmarks for realignment of the flap.

**MARKING PATTERN**

K3-7730 Chayet LASIK Marker – the 8.5mm diameter marking ring is used as a guide for centering the microkeratome. Two smaller rings of different diameters are used for accurate realignment of the corneal flap.

**MARKING PATTERN**

K3-7735 Lu LASIK Marker

A 10.5mm diameter marking ring with radial marking lines produces an asymmetrical pattern for centering the vacuum ring and for precise realignment of the corneal flap.

**MARKING PATTERN**

K3-7737 Dulaney LASIK Marker – with interlocking 3.0mm and 3.5mm diameter marking rings. Two different diameter rings facilitate identification of the epithelial side of a loose cap.
**SPATULAS**

**K3-2530 Fukasaku LASIK Spatula** – rounded anterior surface and flat posterior surface - slightly convex to conform to the curvature of the cornea. Semi-sharp tip to locate and lift the flap edge, as well as to dissect under the flap with minimal vector forces. Ideal for enhancements.

**K3-2532 Guimaraes LASIK Spatula** – A gently curved spatula with semi-sharp edges for dissecting the corneal flap. Smoothly polished bi-convex surfaces are designed for entering the interface, lifting and repositing the flap. Can be used to squeeze excess fluid from the interface.

**K3-2535 Maddox LASIK Spatula** – combines a flat spatula for elevating the flap and protecting the hinge with a cylindrical spatula for repositing and smoothing the flap.

**FORCEPS**

**K5-5060 Mendez multi-purpose LASIK Forceps** – This instrument combines the features of a spatula, dissector and forceps. Vaulted jaws conform to the curvature of the cornea. Spatulated tips and beveled edges to enter, elevate and smooth the flap. Smooth inside jaw surfaces for grasping the flap.

**K5-5058 Buratto LASIK Forceps** – thin disc shaped tips are smoothly polished on the outside to easily enter the lamellar interface. Very fine serrations on the inside surfaces facilitate secure grasping of the corneal flap.

**K5-1820 Fechtner Ring Forceps** – though originally designed for handling conjunctiva, these delicate ring shaped tips are ideally suited foratraumatically grasping and lifting the corneal flap.

**FIXATION RINGS**

**K3-6153 Katena Globe Fixation Ring** – atraumatic fixation with concentrically grooved contact surface. This closed ring, with 12mm central opening, is positioned at the limbus and can serve as a resting place for the corneal flap.

**K3-6160 Gimbel Stabilization Ring** – offset 13mm diameter ring with 9mm cutout to accommodate the flap hinge. The swivel ring, with blunt teeth on both sides for atraumatic fixation, allows the surgeon to use it comfortably for either the left or right eye.

**MARKING PEN**

**K5-6153 Katena Globe Fixation Ring** – atraumatic fixation with concentrically grooved contact surface. This closed ring, with 12mm central opening, is positioned at the limbus and can serve as a resting place for the corneal flap.

A gentian violet marking pen is used for coating corneal markers to produce a pattern on the cornea which is clearly visible for the duration of the surgery. Packaged sterile, 10 per box.

**K20-4500 Marking Pen, box of 10**

---

There are three things that happen to you when you grow older. First you begin to lose your eyesight, then you tend to forget, and third – I can’t remember.
**FLAP PROTECTORS**

**K3-1770 Buratto Flap Protector,** single, for nasally hinged flaps. Features an extremely thin, convex blade with a narrow lip to positively engage and shield the flap. Dull finish.

**K3-1772 Buratto Flap Protector,** double end, for superiorly hinged flaps which are approached from the patient’s temporal side. Dull finish.

**K3-1774 Rowen double-ended Spatula** – combines a Buratto Flap Protector and a bi-convex vaulted spatula. This combination allows the surgeon to dissect, elevate and protect the flap with a single instrument.

**HYPEROPIA**

**K3-7692 Moore-Wilson Hyperopic Conformer** - Laser ablation to correct hyperopia creates a circular groove in the stromal bed making it difficult to fully reseat the flap. This instrument is designed to lightly press on the corneal flap conforming it to the newly shaped stromal bed. According to Dr. Wilson, by conforming the flap in this manner, postoperative astigmatism is reduced and corneal healing is accelerated.

**CASES**

**K9-2025 Sterilizing Case, medium**  
7¾” x 4¾” x 1” (200 x 110 x 25mm)

**K9-2030 Sterilizing Case, large**  
9¾” x 5¾” x 1” (250 x 150 x 25mm)

Autoclavable plastic with silicone mat to protect delicate instruments during sterilization and storage. Base, lid and mat are perforated for steam penetration.

**K9-2100 Instrument Caddy**  
8¾” x 5” x ¾” (210 x 125 x 20mm)  
*stainless steel*

A sturdy case designed to protect a small set of microsurgical instruments during storage, transport and sterilization. Lid, base and silicone mat are perforated for steam penetration and drainage.
**Gimbel LASIK Polishing Cannula**

A 30 gauge cannula for removing particles which have become embedded in the corneal interface. Its tip is flattened for ease of insertion and sandblasted for gently dislodging and irrigating such particles.

---

**Gimbel LASIK Fountain Cannula**

25 gauge – designed for irrigating the lamellar interface as well as to lift, replace and smooth the corneal flap. It is angled at 10mm from the tip and formed to the curvature of the cornea. It has a bullet shaped tip for easy insertion under the flap. A single port near the apex of the curve provides a fountain like fluid flow to irrigate under the flap.

---

**Fukasaku LASIK Cannula**

This end opening cannula features an extremely low profile tip for easy insertion under the flap. The flat end opening allows irrigation fluid to be evenly dispersed and precisely directed.

---

**Spatulated LASIK Cannula**

For those surgeons who prefer a cannula with multiple ports, Katena offers this flattened cannula with a smoothly burnished tip for easy insertion under the corneal flap. It features one small front and two larger side ports which are designed to provide equal flow in three directions. Available in two sizes.

---

**Banaji LASIK Cannula**

This 25 gauge cannula features a bullet shaped tip for easy insertion under the flap and six ports for multi-directional irrigation.

---

**Vidaurri LASIK Cannula, 25 gauge**

A double-armed cannula with eight ports for simultaneously irrigating both sides of the flap as well as the stromal bed. It is ideally suited for controlled handling of the flap.
**K-SPONGE-II®**

K-Sponge-II® is made from synthetic sponge material which is virtually lint free. It becomes extremely soft and pliable when wet. Recommended for LASIK surgery to remove excess fluid and smooth the flap.

**K20-5010 K-Sponge-II® Spears**
packaged sterile
5 per envelope, 20 envelopes per box

---

Boss: I have good news for the employees today. We have complied with all federal, state and local government regulations. All forms have been completed and sent out. I also have some bad news – we are filing for bankruptcy.