

# HydroChoppers for 65% more irrigation

Over 48 cc/min of inflow through a 1.2mm incision<sup>1</sup>

When irrigating nucleus choppers were first introduced the idea was to provide enough inflow to help maintain the anterior chamber while chopping, manipulating and emulsifying the nucleus. As more surgeons started to use these instruments several limitations became apparent.

- Standard 20-gauge irrigators did not provide sufficient flow to consistently maintain the chamber and larger diameter irrigators were too large for a standard paracentesis.
- Irrigation ports were too far from the chopper tips which at times resulted in the ports being outside of the eye when the surgeon was working near the incision.
- While the chopper tips were similar in shape, they were not identical to the surgeon's favorite nucleus chopper, making them more difficult to use.

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## Kellen Capsulorrhesis Marker

*for a centered, predictably sized CCC*

Dr. Rodney Kellen of Winnipeg, Manitoba, Canada has designed a new marker for impressing a circular pattern on the cornea which serves as a guide for performing a 5.5 to 6mm diameter capsulorrhesis. The marker consists of a 6mm diameter marking ring with four symmetrically placed, non-marking pegs extending to the 11mm optic zone. A perfectly centered mark on the cornea is created by aligning the pegs with the limbus and gently pressing the ring onto the corneal surface. Using this mark as a guide, the surgeon can

produce a centered, predictably sized continuous curvilinear capsulorrhesis. The instrument is particularly useful when the pupil dilates eccentrically and the usual cues to center the rhexis are absent.



K3-7850  
Kellen  
Capsulorrhesis Marker



K7-5879  
Chang HydroChopper



K7-5873  
Fukasaku HydroChopper



K7-5875  
Rosen HydroChopper



K7-5881  
Nagahara HydroChopper  
K7-5883  
Nagahara HydroChopper 60°



K7-5871  
Fine HydroChopper



K7-5877  
Nichamin HydroChopper



K7-5889  
Hydro Irrigation Handpiece

Taking all of these issues into consideration, Katena developed the HydroChoppers which provide more than 48 cc/min of flow with strategically located ports and chopper tips that are dimensionally identical to the non-irrigating models. This uniquely designed group of instruments provides over 65% more inflow than standard irrigating choppers without increasing the incision size.

The instruments feature a lightweight aluminum handle with a series of dimples for positive grip while their front ends are made entirely from one piece of stainless steel. This one piece stainless steel engineering allows for a dramatically larger inside diameter, to maximize irrigation flow, while maintaining a 20-gauge outside diameter to fit through a 1.2mm incision.

Additionally, they have been designed with an end opening port near the tip to ensure that the irrigation is always in the eye, which is very important when working near the incision. Katena is now making the HydroChoppers available with many of the most popular chopper designs as well as an irrigating handpiece without a chopper tip.



<sup>1</sup>based on irrigation flow rate testing, data on file, Katena Products, Inc.

## Lu Phaco PreChopper

This single-handed cross action instrument will allow the division and rotation of the nucleus without the need for sculpting through a small incision. Dr. Lu states that this instrument can be utilized for a standard 2.8mm inci-

sion as well as through a 1.4mm micro incision. The reverse curve of the blades follows the anatomical contour to prevent injury to the posterior capsule while the sharp tips facilitate easy insertion into the core of the nucleus.



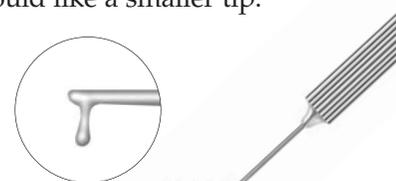
K5-7235 Lu Phaco PreChopper

## New Phaco Instruments

### Alio-Kelman IOL Hook

Professor Jorge Alio of Alicante, Spain developed this instrument to manipulate the new Kelman Duet Lens. He uses two of these micro hooks to manipulate and position the haptics of the IOL within the capsular bag.

The instrument resembles the Lester IOL Manipulator, however it is much more delicate. This is a good alternative for those surgeons who like to use the Lester hook but would like a smaller tip.

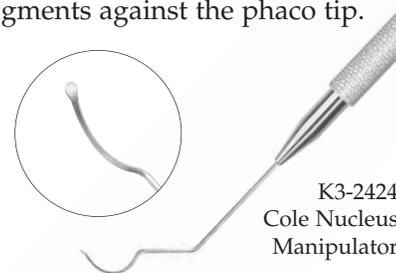


K3-2697  
Alio-Kelman IOL Hook

### Cole Nucleus Manipulator

Dr. Rex Cole of San Marcos, Texas, has designed an instrument that protects the posterior capsule while manipulating and removing the nuclear fragments. It features a crescent-shaped bend with a wedge-shaped anterior surface and a smooth posterior surface.

The crescent-shaped bend provides the maximum possible distance between the phaco tip and the posterior capsule. It is most useful in those situations where the chamber is shallow or where surge is proving to be a problem. The wedge-shaped anterior surface is used to direct and divide nuclear fragments against the phaco tip.



K3-2424  
Cole Nucleus Manipulator

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# Chang Contingency Kit

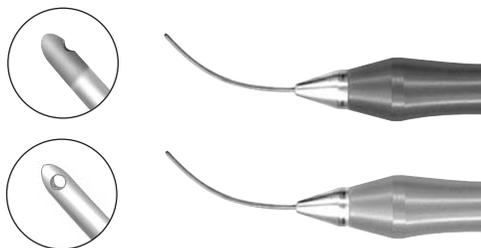
## For Managing Posterior Capsular Rupture

Posterior capsule rupture and vitreous loss necessitates a stressful departure from the surgical routine for both surgeons and their OR staff. Anticipating these difficulties, one can prepare for this contingency in several ways. As advocated by David Chang, M.D., the OR can pre-package special instruments in a "contingency kit" that is kept sterile in a separate, autoclavable container. This avoids the need to urgently search for a seldom-used instrument amidst the stress of an unexpectedly complicated case. With the potential need to convert to an ECCE and perform a vitrectomy, the Chang Contingency Kit includes the following:

### Bimanual I/A

K7-5811 Aspiration Handpiece with textured polishing tip 21-gauge, single 0.35mm port

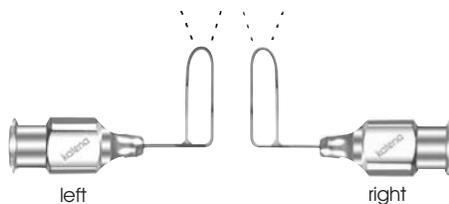
K7-5840 Irrigation Handpiece 21-gauge, dual 0.5mm ports



### Simcoe Irrigating Lens Loop

two front opening ports  
finely serrated, strong curve  
25-gauge

K7-5530 for right handed surgeon  
K7-5531 for left handed surgeon



### Corbin Sub-Tenon's Cannula

smooth rounded tip  
0.3mm side port  
23-gauge

K7-4008



### Infusion Cannula

22-gauge angled with beveled tip  
supplied with silicone tubing  
and adaptor

K7-6711



### Castroviejo Corneal Scissors

Universal Corneal Scissors  
curved, blunt tips  
medium blades

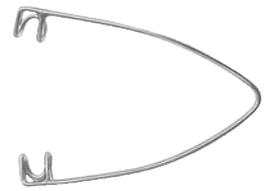
K4-2220



## Infant Speculums

### Infant Wire Speculum

This simple wire speculum with 4mm wide blades uses the gentle spring tension of wire to retract an infant lid. The open wire blades are slightly offset, allowing the blades to fit together for easier insertion and removal.



K1-5350  
Infant Wire Speculum

### Premature Infant Speculum

This extra small speculum features delicate 2mm wide solid blades with a gentle spring for retracting premature infant lids.



K1-5302  
Sauer Premature Infant Speculum

### Sauer Infant Speculum

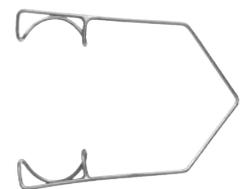
This speculum is identical to the premature version except it has 10mm blades for use on infants.



K1-5300  
Sauer Infant Speculum

### Barraquer Infant Speculum

This new wire speculum is shaped very much like a standard Barraquer except that its blades are reduced to a 9mm width. It is intended for use on infant eyes, however, it is also very useful for performing minor office procedures on adult eyes.



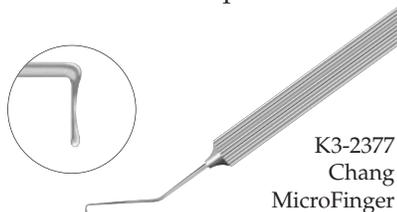
K1-5355  
Barraquer Infant Speculum

## More Phaco Instruments

### Chang MicroFinger

After receiving several requests, Katena is now making the Chang MicroFinger available in a single-ended instrument. It is more delicate than the original Lieberman MicroFinger and is used for the division of medium to soft nuclei.

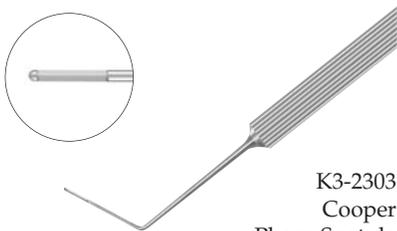
The long, smoothly polished tip is ideal for slipping beneath the anterior capsule and around the equator while the defined inferior edge of the finger-shaped tip is used to split the nucleus horizontally as described by Dr. David Chang. The curved hourglass shape of the tip also aids in cradling and guiding nucleus fragments toward the phaco tip for emulsification and aspiration.



K3-2377  
Chang  
MicroFinger

### Cooper Phaco Spatula

This new spatula was developed by Dr. George Cooper of Fayetteville, NC to complement his "divide and conquer" technique. It features a 3mm long wedge-shaped lateral edge, which Dr. Cooper uses to manipulate and split nucleus quadrants against the phaco probe after the initial nucleus division.



K3-2303  
Cooper  
Phaco Spatula

## Gold Punctal Plug Forceps

Dr. Jeffrey Gold of Hamden, Connecticut designed this instrument for grasping and inserting punctal plugs. Its tips are pointed, but not sharp, and the inside jaw surfaces feature a 0.2mm wide

longitudinal groove which is designed to securely grasp any size plug. According to Dr. Gold the forceps also works well for grasping and removing eyelashes.



K5-6218  
Gold Punctal  
Plug Forceps

## De La O Nucleus Extraction and IOL Insertion Forceps

This new combination forceps has been designed for grasping and extracting nucleus segments during manual phacofracture procedures as well as inserting soft intraocular lenses. It features very finely serrated tips and heels to grasp the nucleus segments.

The curved jaws are designed with a smooth longitudinal groove to hold and extract the nucleus, as well as to hold the folded lens for insertion into the capsular bag.

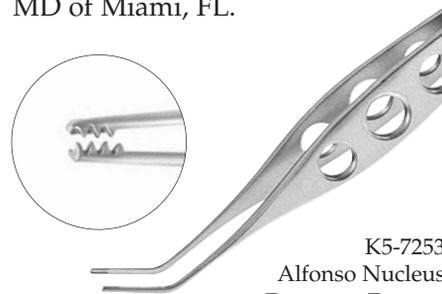


K5-7255  
De La O Forceps

Designed by Luis De La O, MD of Torreon, Mexico

## Alfonso Nucleus Fragment Forceps

This instrument was modified at the suggestion of Eduardo Alfonso, MD of Miami, FL.



K5-7253  
Alfonso Nucleus  
Fragment Forceps

It features two short rows of delicate interlocking teeth on the anterior surfaces of the jaws for grasping and extracting nucleus fragments. The posterior surfaces of the jaws are smooth to avoid inadvertently grasping delicate tissue. The reduction in the number of teeth has greatly reduced the cost and resulted in a more delicate instrument with superior ability to grasp and extract fragments.

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4 Stewart Court, Denville, NJ 07834 • USA ☎ 973-989-1600 • 800-225-1195 • FAX 973-989-8175 website [www.katena.com](http://www.katena.com)

