



**Duckworth & Kent**  
titanium surgical instruments

Established in 1959

## LASIK & LASEK

DK Stein Utility Forceps



Gulani LASIK Marker



Cionni Femto Speculum



DK Femto Flap Lifter and Retreatment Spatula



**Including Instruments for  
Femto Second Laser**

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*at the Leading Edge*

**9-558**  
**Bates LASIK / LASEK Speculum - Right**



- One Solid and one open blade
- Designed for the right eye
- Angled to rest temporal
- Single piece construction

Key features of the Bates LASIK / LASEK Speculum:

- 1) Enables excellent exposure for LASIK or LASEK and allows, in particular, easy placement of the microkeratome.
- 2) Gives excellent retraction of the lower lid and of redundant lid tissue

**9-558-1**  
**Bates LASIK / LASEK Speculum - Left**



- One solid and one open blade
- Designed for the left eye
- Angled to rest temporal
- Single piece construction

**9-567**  
**Tutton Speculum**



- Open blades
- Angled to rest temporally
- Single piece construction

**9-590-2**  
**Markomanolakis Aspirating Speculum**



- Open blades, 14.5mm wide
- Angled to rest temporally
- Adjustable aspirating port, can be increased in length by 4.0mm

The design allows for efficient and effective aspiration of excess fluids and debris during refractive procedures. The aspiration port sits comfortably in the corner of the eye, with simple adjustment to move the port position to accommodate different optimum patient positions. The aspirating port features a large bore that accommodates a high volume of liquid without the risk of becoming blocked.

**9-583**  
**Williams Adjustable LASIK Speculum**



- Open blades
- Angled to rest temporally
- Adjustable with thumb screw

**9-583-1**  
**Williams Adjustable LASIK Speculum**



- Open blades
- Angled to rest nasally
- Adjustable with thumb screw

Designed to achieve maximum comfortable exposure of eye for suction ring placement to allow microkeratome to be easily positioned on the pivot post without obstruction during LASIK surgery. Lengthened speculum blades accommodate microkeratome. Simplicity and elegance of design allows speculum to be used in other types of ocular surgery.

**9-584**  
**Williams LASIK Speculum**



- Open blades
- Angled to rest temporally

Designed to achieve maximum comfortable exposure of eye for suction ring placement and to allow microkeratome to be easily positioned on the pivot post without obstruction. Simplicity and elegance of design allows speculum to be used in other types of ocular surgery.

**9-588**  
**Buratto Adjustable Speculum**



- Open blades
- Angled to rest temporally
- Adjustable with thumb screw

**9-589**  
**Buratto Adjustable Speculum**



- Open blades
- Angled to rest nasally
- Adjustable with thumb screw
- Lightweight, compacted and strong

Maximum exposure allows application of suction ring and microkeratome run.

**9-588-1**  
**R J Mackool Femto Second Laser Speculum**



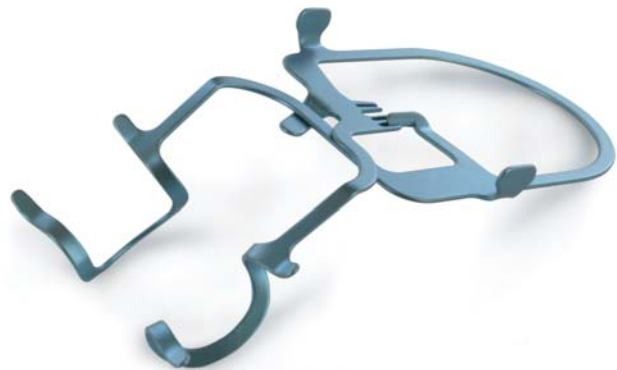
- 15.5mm open blades
- Curved to rest temporally
- Adjustable with thumb screw
- Suitable for femto second laser machines

Maximum blade exposure allows application of suction ring when using the LenSx® Laser. LenSx® is registered to Alcon LenSx Inc.

**9-585-1**  
**Cionni Femto Speculum**

- Angled to rest temporally
- Self-locking mechanism prevents speculum from closing during procedure when patient blinks or squeezes, blades 15.5mm wide
- Single piece design with adjustment gives continual efficient and reliable operation with repeated uses
- Additional length to upper part of blade is angled up in order to retain or hold back the cheek and upper lid skin without pinching into the tissue.
- LenSx® is registered to Alcon LenSx Inc

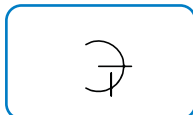
Thumb plates are pressed together to open and capture lids. Crossing arms lock at four positions to accommodate various size palpebral fissures. Pressing thumb plates further releases locking mechanism, allowing surgeon easy removal of speculum. Releasable without opening to fullest extension, providing comfortable removal even in patients with small palpebral fissures.



New Temporal Speculum designed by Dr Cionni for the LenSx® Laser

**9-850**

**Pallikaris LASIK Blade Marker**



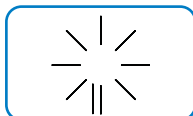
- Flat handle, length 106.0mm

Marks 10.0mm x 240° with central line from centre to 1.5mm beyond the diameter and line 90° to that line, 2.5mm below.



**9-853**

**Bennett Thornton LASIK Marker**



- Lowest profile with eight radial elements and non-radial element
- Round handle, length 126.5mm

Useful in realigning flap after repositioning following LASIK. Misalignment in any portion of flap can be readily seen since elements are at right angles to flap edges. The additional non radial element is useful in the event of a free flap. This position permits surgeon to properly orient flap and prevent flap from being laid upside down. Overall length of elements ensures flap edges will be included in the mark regardless of flap size. Open centre with pointer ensure simple and accurate marking on cornea, 45° angulation of head allows for ease and comfort in use.



**9-854**

**DK LASIK Marker**

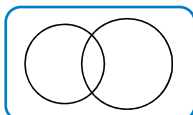


- Lowest profile with three radial elements and two non-radial elements
- Flat handle, length 112.0mm



**9-855**

**Gulani LASIK Marker**



- 3.5mm and 4.0mm intersecting circles
- Round handle, length 119.0mm

Double circle marker (3.5mm and 4.0mm) provides pre-determined landmark (four reference points of two intersecting circles) for corneal flap replacement following excimer laser ablation of stromal bed in LASIK. Configuration of arcs of intersecting circles allows correct side-up placement of corneal flap.



## DK Epithelial Trephine with Trephine Guide and Alcohol Chamber

(order separately)



### DK Trephine Guide and Alcohol Chamber

- Alcohol chamber height 6.0mm
- Internal diameter 0.5mm larger than incision
- Round handle, length 125.0mm



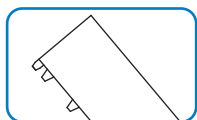
### DK Epithelial Trephine

- Trephine creates a 300° incision into the epithelium
- Flat on knurled depicts the hinge of the epithelium flap
- Trephine height 20.0mm

Incision Size	DK Epithelial Trephine code	DK Trephine Guide & Alcohol Chamber code
Ø8.0mm	<a href="#">6-924</a>	<a href="#">6-944</a>
Ø8.5mm	<a href="#">6-925</a>	<a href="#">6-945</a>
Ø9.0mm	<a href="#">6-926</a>	<a href="#">6-946</a>
Ø9.5mm	<a href="#">6-927</a>	<a href="#">6-947</a>
Ø10.0mm	<a href="#">6-928</a>	<a href="#">6-948</a>
Ø10.5mm	<a href="#">6-929</a>	<a href="#">6-949</a>
Ø11.0mm	<a href="#">6-930</a>	<a href="#">6-950</a>

## Bates Trephine Guide and Alcohol Chamber with Fixation

(order separately)



### Bates Trephine Guide and Alcohol Chamber with Fixation

- Low profile alcohol chamber, height 4.0mm
- Internal diameter 0.5mm larger than incision
- Designed as a guide for the DK Epithelial Trephine (see above)
- Round handle, length 125.0mm



### DK Epithelial Trephine

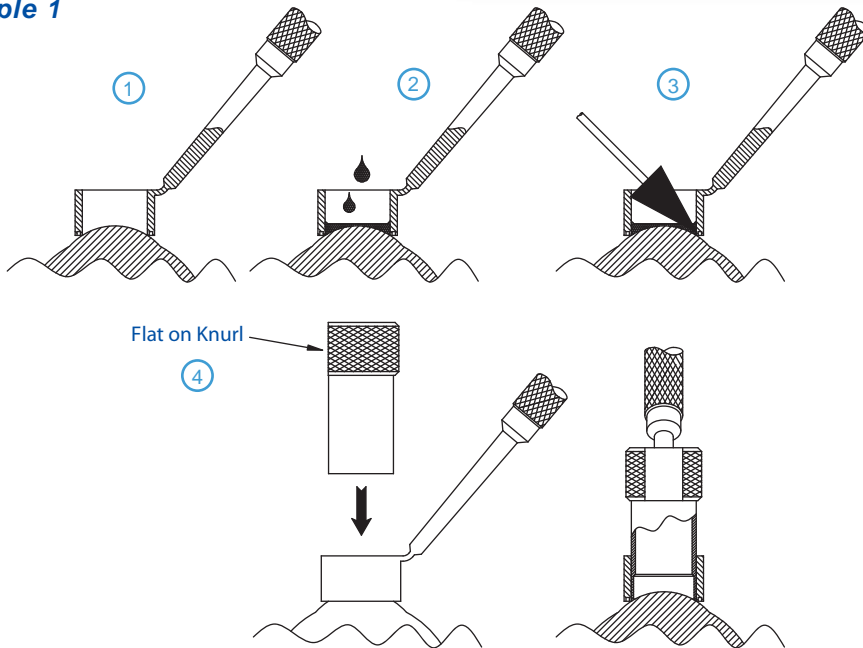
- Trephine creates a 300° incision into the epithelium
- Flat on knurled depicts the hinge of the epithelium flap
- Trephine height 20.0mm

Incision Size	DK Epithelial Trephine code	Bates Trephine Guide & Alcohol Chamber with Fixation code
Ø8.0mm	<a href="#">6-924</a>	<a href="#">6-944-1</a>
Ø8.5mm	<a href="#">6-925</a>	<a href="#">6-945-1</a>
Ø9.0mm	<a href="#">6-926</a>	<a href="#">6-946-1</a>
Ø9.5mm	<a href="#">6-927</a>	<a href="#">6-947-1</a>

# LASEK Instrument Set Guidance Notes

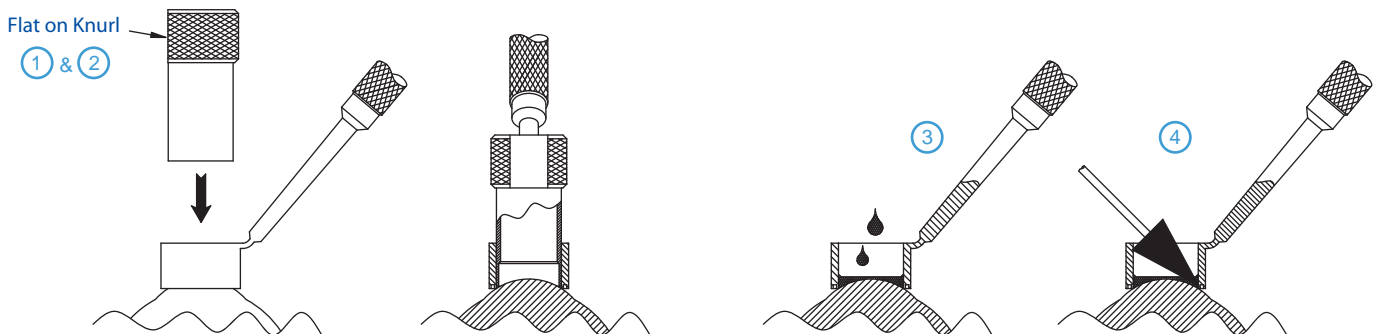
## Guidance notes only

### Example 1



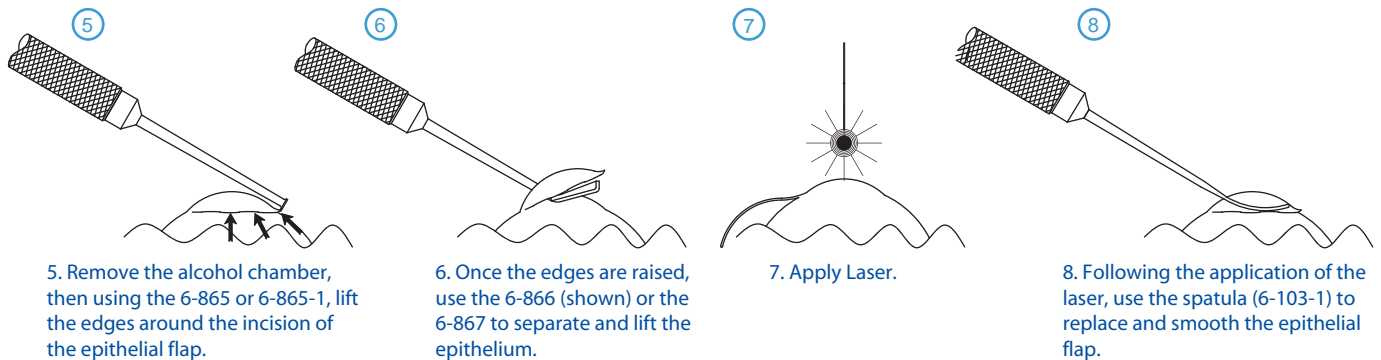
1. Centre alcohol chamber onto eye
2. Apply alcohol mixture into the chamber, covering the epithelium, and leave for the required time to soften the epithelium.
3. Soak up the excess alcohol.
4. Place the trephine into the alcohol chamber. The flat on the knurl of the trephine signifies the location of the hinge of the epithelium flap. Apply enough downward pressure with a slight twist in order to cut the tissue of the epithelium.

### Example 2



1. Centre alcohol chamber onto eye
2. Place the trephine into the alcohol chamber. The flat on the knurl of the trephine signifies the location of the hinge of the epithelium flap. Apply enough downward pressure with a slight twist in order to cut the tissue of the epithelium.
3. Apply alcohol mixture into the chamber, covering the epithelium, and leave for the required time to soften the epithelium.
4. Soak up the excess alcohol.

### Continuation after example 1 or 2

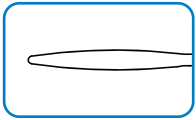


5. Remove the alcohol chamber, then using the 6-865 or 6-865-1, lift the edges around the incision of the epithelial flap.
6. Once the edges are raised, use the 6-866 (shown) or the 6-867 to separate and lift the epithelium.
7. Apply Laser.
8. Following the application of the laser, use the spatula (6-103-1) to replace and smooth the epithelial flap.

# Spatulas, Dissectors & Flap Lifters

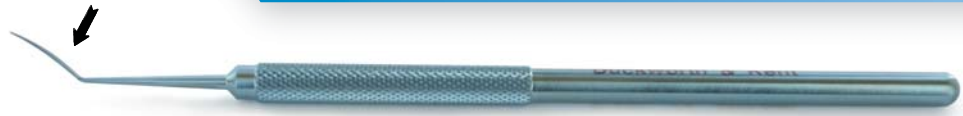
6-870

## Buratto LASIK Oval Spatula



VIEW ON ARROW

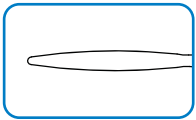
- 1.3mm curved blade
- 35° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 122.0mm



Designed to raise flap during LASIK.

6-870-1

## Buratto LASIK Oval Spatula



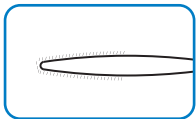
VIEW ON ARROW

- 1.3mm curved blade
- 60° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 119.0mm



6-858

## Stevens Femto Flap Lifter



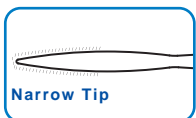
VIEW ON ARROW

- Thin curved blade, 1.3mm wide with sharp edges
- 45° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 122mm



6-859

## Stevens Femto Flap Lifter, narrow tip



Narrow Tip

VIEW ON ARROW

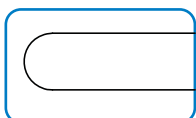
- Thin curved blade with narrow pointed tip, 1.3mm wide, sharp edges
- 45° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 122mm



The curved design of the Stevens Femto Flap Lifter glides smoothly to raise the flap, whilst the sharp edges are used to separate the adhesions under the flap that are left after the femtosecond laser.

6-606

## O'Gawa Lamellar Dissector



VIEW ON ARROW

- 2.5mm sharp edge tip
- 65° angled curved blade, tip to angle length 13.5mm

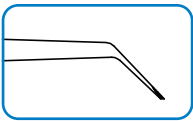
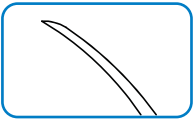
- Round handle, length 114.0mm



For use in lamellar corneal procedures. Sharp tip creates dissections with slightly rounded sides maintain single dissection plane. Curved blade minimizes distortion of cornea during dissection.

6-607

**Morlet Lamellar Knife / Dissector**

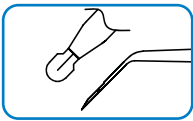


- 0.1mm x 1.5mm sharp edges
- 0.35mm x 2.0mm curved

- Angled shafts 12.0mm tip to curve, tip to angle length 3.0mm
- Round handle, length 110.0mm

6-608

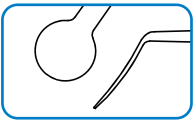
**DK Scleral Pocket Knife**



- 1.0mm x 1.0mm oval round blade, blade thickness 0.1mm
- 45° angled shaft, tip to angle length 3.0mm
- Round handle, length 118.0mm

6-609

**Barrett Lamellar Dissector / Knife**



Dissector

- 4.0mm round blunt edge
- 55° angled shaft, tip to angle length 6.0mm

Knife

- 2.0mm sharp rounded tip
- 55° angled shaft, tip to angle length 6.0mm
- Barrett balanced set handle, length 121.0mm

6-856-1

**S. Antonio Spatula**

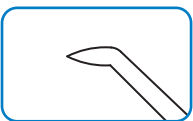


- 0.5mm spatula
- Smooth shaft slightly curved shaft with tapered tip

- 45° angled shaft, tip to angle length 10mm
- Round handle, length 125mm

6-857

**Stevens Femto Rim Lifter**



- Sharp bullet shaped tip, 0.5mm long
- 45° angled shaft, tip to angle length 10.0mm

- Round handle, length 118mm
- The sharp tip of the Stevens Femto Rim Lifter is used after the femto second laser to sweep along the rim to delineate and open the flap.*



6-855

**DK Femto Flap Lifter and Retreatment Spatula**



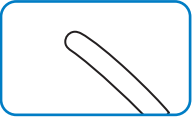
Flap lifter  
• 0.4mm diameter, smooth polished surface  
• Curved shaft, 12.0mm length



Retreatment Spatula  
• 0.15mm tip diameter, smooth polished surface  
• Angle tip, length to angle 3.0mm  
• Round handle, length 123mm

6-856

**Femto Laser Spatula**



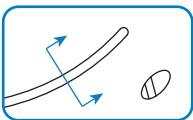
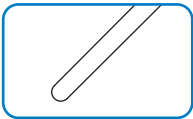
• 0.5mm spatula  
• Smooth shaft slightly curved shaft with blunt tip



• 45° angled shaft, tip to angle length 10mm  
• Round handle, length 125mm

6-103-1

**DK Double Ended Spatula (for repositioning epithelial flap)**

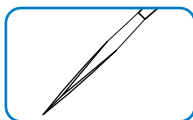


• 0.8mm diameter, double ended  
• 45° angled shaft, tip to angle length 12.0mm, curved shaft



6-863

**Tutton Double Ended Flat Oval Spatula / Elevator**



VIEW ON ARROW



• Flat broad oval spatula 5.44mm x 5.14mm x 3.15mm  
• Elevator length from angle to tip 12.0mm  
• Overall length 126.0mm

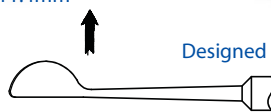
This double ended LASIK instrument consists of a spatula and an elevator. The elevator tip can be used to delineate the edge of a previous LASIK corneal flap, whilst the curved design glides smoothly over the stroma to raise the flap. The flat broad oval spatula has a sharp edge which enables both the stromal base of the posterior surface of the flap to be debrided of any epithelial cells.



6-871

**Buratto Double Flap Spatula**

• 4.75mm hemi-disc spatula tips  
• 30° angled curved shafts, tip to angle length 11.4mm  
• Round handle, length 114.0mm



VIEW ON ARROW

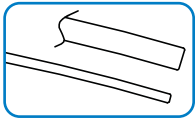
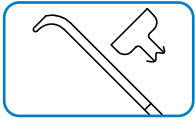


VIEW ON ARROW

Designed to protect stromal portion of flap close to hinge.

6-875

**Buratto LASIK Retractor / Spatula**



Retractor

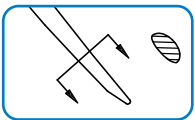
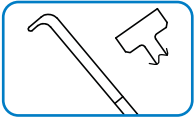
- 8.0mm x 3.0mm flattened tip
- 45° angled shaft, tip to angle length 7.0mm

Spatula

- 0.5mm x 0.2mm flattened tip
- Slightly curved shaft
- Round handle, length 117.0mm

6-876

**O'Gawa LASIK Spatula and Flap Protector**



Flap protector

- 7.5mm x 3.0mm flattened tip
- 55° angled shaft, tip to angle length 4.0mm

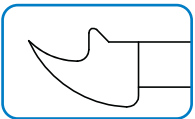
Spatula

- 0.45mm x 0.8mm oval highly polished tip
- 55° angled shaft, tip to angle length 10.5mm
- Round handle, length 115.5mm

Two-in-one instrument decreases instrument tray clutter and keeps flap protector easily accessible. Spatula has tapered tip for ease of insertion under corneal flap. Polished surface on spatula minimizes friction, drag, and distortion of flap. Flap protector has a micro-lip on its tip to allow for additional retraction of flap when needed.

6-862

**Gulani Neumann Hyperopic LASIK Flap Dissector**



VIEW ON ARROW



VIEW ON ARROW



- Curved sharp edge, 3.0mm wide
- Round handle, length 86.0mm

Used to lift previous corneal flap in cases having undergone Hyperopic LASIK. Angled, curved base glides smoothly along stromal mound whilst top flat surface dissects plane of previous flap.

6-865

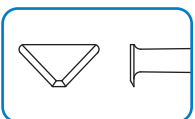
**DK Epithelial Edge Lifter**



- Hoe-shaped tip, 2.12mm - 0.6mm (width) x 1.85mm (height)
- Round handle, length 120.0mm

6-865-1

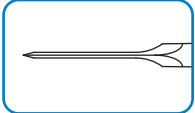
**DK Angled Epithelial Edge Lifter**



- Hoe-shaped tip, 3.52mm - 0.6mm (width) x 1.85mm (height)
- 45° angled shaft, tip to angle length 11.0mm
- Round handle, length 113.5mm

6-866

**DK Epithelial Separator / Lifter**



VIEW ON ARROW

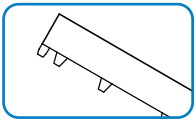


- 3.0mm triangular-shaped tip
- 45° angled shaft
- Round handle, length 120mm

**Fixation Rings**

9-531 and 9-531-1

**Stevens Fine Thornton Fixation Ring ( left and right versions available, sold Separately)**



- 3/4 ring, 12.0mm diameter ring with nine point fixation
- Fixed flat handle, length 118.0mm
- Open at 90° to handle, right side.



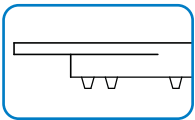
9-531 Right eye



9-531-1 Left eye

9-532

**Barrett Fixation Ring with Flap Support**

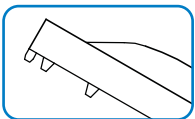


- 14.0mm fixation ring with 0°-180° in 10° increments
- Pivot swivel round handle, length 120.0mm

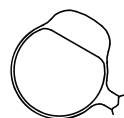


9-533 and 9-533-1

**Stevens LASIK Fixation Ring with Flap Support ( left and right versions available, sold Separately)**



- 12.0mm diameter ring with nine point fixation and flap support
- Fixed flat handle, length 118.0mm



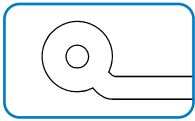
9-533 Right eye



9-533-1 Left eye

**2-795**

## Stein Utility / Flap Lifting Forceps



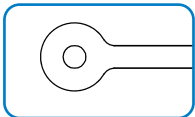
- Small flat ring tips
- 45° angled shafts, tip to angle length 3.5mm
- Standard handle, length 84.0mm

Designed with shortened, small flat ring tips for removal of contact lens at slit lamp biomicroscope. Useful contact lens removal following PRK and other refractive surgical procedures.



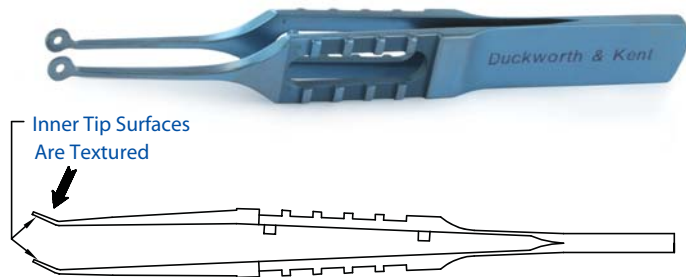
**2-798**

## DK Stein Flap Lifting / Utility Forceps



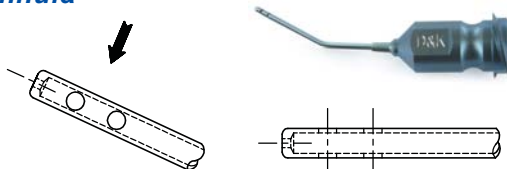
VIEW ON ARROW

- Small flat ring tips, inner tip surfaces lightly textured
- 25° angled shafts, tip to angle length 3.5mm
- Standard handle, length 85.0mm



**8-604**

## DK LASIK Cannula



- 23 gauge
- 0.2mm diameter hole at tip
- Four 0.4mm diameter holes along side of shaft
- 25° Angled shaft, tip to angle length 8.0mm

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