# Duckworth & Kent

**Reusable Titanium**

Ophthalmic Instruments

# Duckworth & Kent

**Duckworth & Kent is a world leader in titanium ophthalmic surgical instrumentation**, manufacturing our product range at our headquarters in England. Innovation and experimentation have been at the heart of the company's philosophy for over half a century, driven by the uncompromising quest for perfection. The company's enduring commitment to exceptional engineering is best exemplified by our latest range of instrumentation.
With increasing technological challenges and demanding customer expectations, the value of innovative design and advance manufacturing is stronger now than ever before. By exploring advanced concepts and embracing new technology, Duckworth & Kent remains at the forefront of ophthalmic surgical instrumentation design and engineering.



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## Stay in touch with **Duckworth** & **Kent**

For further information on our current range of ophthalmic instrumentation and services, visit our website or contact us directly

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Terence House
7 Marquis Business Centre
Royston Road, Baldock
Herts, SG7 6XL, England

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info@duckworth-and-kent.co.uk

www.duckworth-and-kent.com

Find us here

E-Range Instruments

Core Values Collection

# Contents

# Find it Quickly

Hundreds of instruments
Search our whole range in seconds
Find us at www.duckworth-and-kent.com

# Online

## Finding the right instrument

All of our products can be found online via our website **www.duckworth-and-kent.com**
Each product has a photograph, tip view/views and a list of essential information to make sure you are fully informed on the instruments dimensions and capabilities before making your purchase.

## Three ways to search

• By selecting the products tab and browsing our online catalogue/featured products or latest products.

• Through the search bar, by typing in either the product number/instrument name or keyword.

• By going to the online version of our printed catalogue which you can find by clicking the literature/video tab and navigating to literature.

## Product Enquiry

Our product enquiry form is quick and simple and can be found at the left hand side of the page, whenever you are in the products section of our website.

To complete the form you will need all of your contact information as well as the product numbers of the instruments that you are enquiring about. Our sales team will get back to you as soon as possible.

# Receive it Quickly

Our dedicated sales team are always happy to help

## Contact Directly

If you would prefer to call or e-mail us directly to enquire about an instrument or place an order, please feel free to contact our sales office. After receiving your enquiry we will respond quickly via email with all the relevant information you have requested.

### Office Hours
Monday - Thursday 8:30am - 5:00pm
Friday 8.30am - 4.30pm

### Telephone
+44 (0)1462 893254

### E-mail
info@duckworth-and-kent.co.uk

## Delivery

We have experience shipping worldwide. We hold an extensive range of instruments in stock to facilitate a fast turn around. We aim to ship **within 2 weeks** of receiving your order.

## Repairs

We offer a fast turn around to repair and service hand held surgical instruments, including diamond knives.

Our repair service specialises in all ophthalmic surgical instruments, regardless of the make or material.

We always provide a quality, professional service utilising our technologically advanced in-house facilities.

We aim to achieve a fast and efficient turnaround.

**All instruments are repaired by highly skilled craftsmen, ensuring that any small imperfections are not overlooked.**

We repair all makes and styles of diamond knives.

Before we carry out any work or repairs on any instrument we will require proof that the instrument has been decontaminated.

If you are unable to provide the relevant documentation / certificate to confirm decontamination and you are aware that this process has been carried out, then please visit www.duckworth-and-kent.com/care/repair or scan this QR code

# Why Titanium ?

For centuries traditional hand held surgical instruments have been made from stainless steel. In the 1960's, the aerospace industry embraced the benefits of titanium alloy and in the 1970's a metallurgist advised the owner of Duckworth & Kent to consider titanium alloy (Ti 6Al-4V). Duckworth & Kent saw the advantages of working with this modern metal and moved away from manufacturing in steel. The new material proved to be very well suited to the requirements for surgical instrumentation, offering advantages such as no oxidation, non-magnetic , lightweight and yet extremely durable. The new metal required new techniques in manufacturing and Duckworth & Kent began to learn how to work with titanium alloy. Duckworth & Kent soon became a specialist in titanium manufacturing, pushing the metal to its limits to produce some of the finest, delicate and precise medical devices. Today Duckworth & Kent is regarded as one of the pioneers in titanium medical devices and a world specialist in manufacturing from titanium.

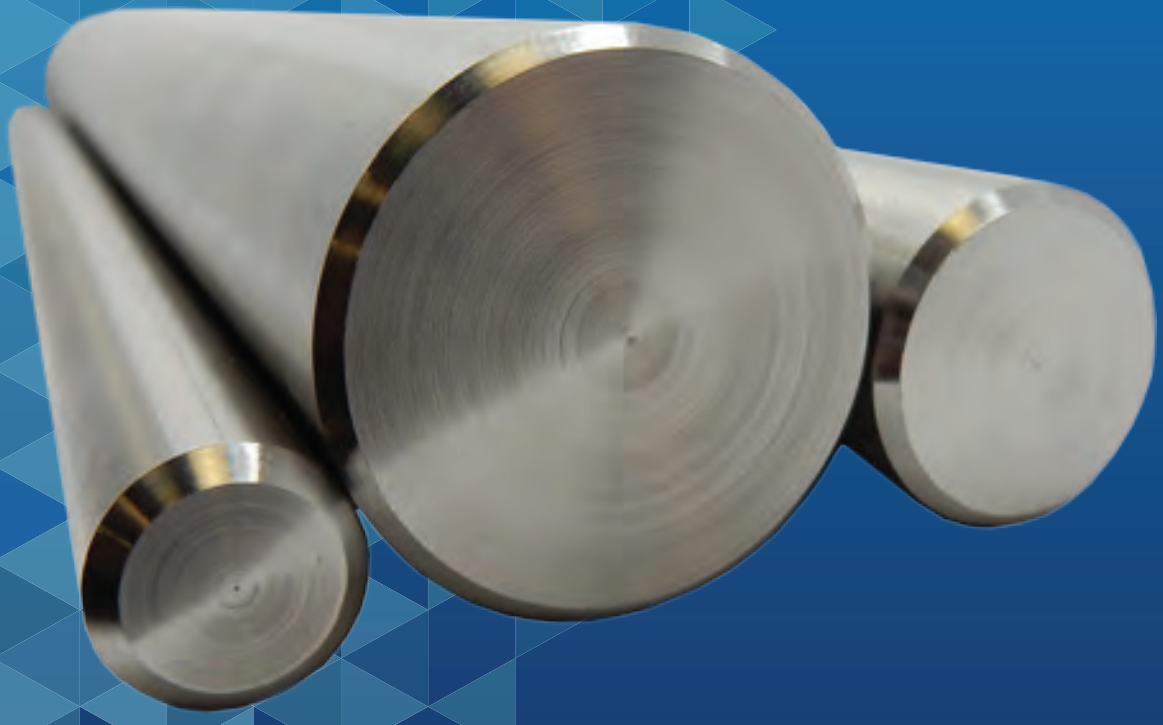
# Key Benefits of Titanium

• Titanium's lightness is a positive aid to assisting instrument handling by the surgeon.

• Instruments are anodised to provide a non-reflecting surface, essential in microsurgical operations.

• Titanium instruments withstand repeat sterilisation without compromise to edge or surface quality, strength and are corrosion resistant.

• Titanium is non-magnetic and therefore does not cause adverse reactions with other steel instruments or equipment.



# Brief History of Duckworth & Kent

## Foundation of Duckworth & Kent Ltd.

Duckworth & Kent was founded on the 30th January 1959 as a small engineering company in the town of Hitchin, England. Shortly afterwards the company moved to the neighbouring town of Baldock, where it has remained to the present day. During the 1960's Duckworth & Kent was primarily involved in high-precision contract engineering work for the UK Ministry of Defence.

## Introduction to Ophthalmic Surgery

In 1968 a London-based Consultant Eye Surgeon approached the company regarding it's assistance in the manufacture of surgical instruments for cataract operations. This new development within the company remained relatively small scale until 1972. Following a meeting with a metallurgist, the company was advised to consider titanium alloy as the raw material, as used in the aerospace industry. It wasn't long before Duckworth & Kent saw the substantial advantages of this material and moved away from manufacturing surgical instruments in stainless steel. The new alloy proved to be very well suited to the requirements for surgical instrumentation, offering advantages such as no oxidation, relatively lightweight and yet extremely durable.

## Expansion into the Surgical Arena

In 1983 the company devoted more resources into the manufacture of surgical instruments, not only for ophthalmic surgery, but also for the neurosurgical and ear, nose and throat specialties. Duckworth & Kent became an independent surgical instrument manufacturer, subcontracting for well-known companies. In 1988 Duckworth & Kent ventured further into the arena by producing its own label instrumentation. Subsequently, Duckworth & Kent has enhanced its knowledge and gained considerable experience in the field of ophthalmic surgical instruments, such that it now markets and distributes its own range on a world-wide basis.

## The Present Day

The workforce continues to expand and diversify as the need arises, whether it be in design, manufacturing, sales or marketing. The ophthalmic product range now extends to over 800 instruments and continues to change to meet the needs of this ever-advancing surgical specialty. As a consequence, Duckworth & Kent is now the leading manufacturer of high quality titanium ophthalmic surgical instruments.

REUSABLE TITANIUM INSTRUMENTS

MANUFACTURED IN ENGLAND

# Scissors

Canaloplasty
Capsule, Capsulotomy
Conjunctival
Corneal
Iris
IOL Cutter
Retinal - Fixed Heads
Retinal - Interchangeable Heads
Utility and Westcott
Vannas

## Canaloplasty

**1-315NR8**

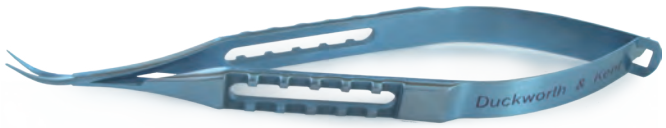
### Benedetti Canaloplasty Scleral Flap Scissors


- Blunt tips, angled 45°
- Cut length 2mm, tip to pivot length 4mm
- Squeeze action handle closes scissors
- 8mm diameter round squeeze handle, length 104mm

## Capsule, Capsulotomy

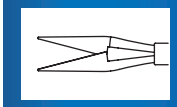
**1-116**

### DK Capsule Scissors, Curved

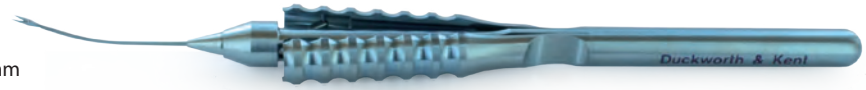



- Blunt tips, curved blades
- Cut length 6mm, tip to pivot length 11mm
- Flat handle, length 99mm

**1-625**



### Capsule Scissors, Curved 23 Gauge

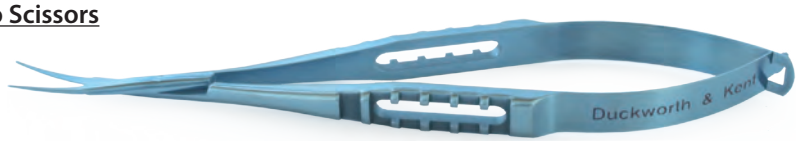



- Sharp tipped straight scissor
- Curved 23 gauge tube, length 20.5mm
- Squeeze action handle closes scissors
- Round squeeze handle, length 127mm

## Conjunctival

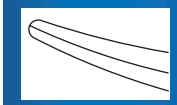
**1-227**

### Osher Universal Conjunctival Micro Scissors

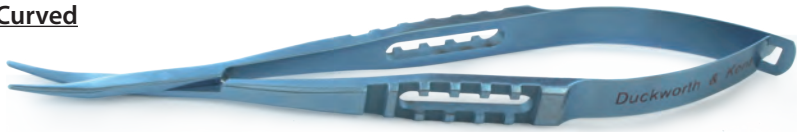



- Blunt tips, curved blades
- Cut length 10mm, tip to pivot length 21mm
- Flat handle, length 116mm
- Fine blades, suitable for precise incision opening

**1-510**



### Westcott Style Tenotomy Scissors, Curved

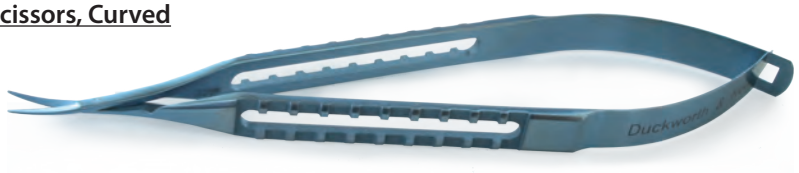



- Blunt tips, curved blades
- Cut length 10mm, tip to pivot length 20mm
- Flat handle, length 115mm

## Corneal

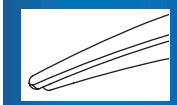
**1-118**

### DK Castroviejo Miniature Corneal Scissors, Curved

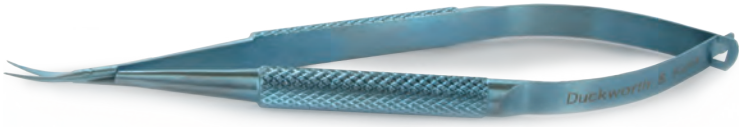



- Blunt tips, curved blades
- Universal cutting blades
- Cut length 6mm, tip to pivot length 11mm
- Flat handle, length 115mm

**1-218**



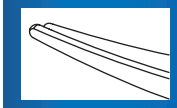
### Anwar Corneal Scissors, Curved to Right



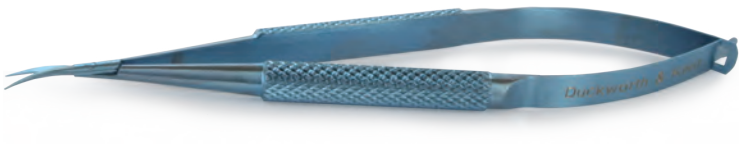

- Blunt tips, curved blades
- Long inner blade with smoothly polished ends
- Cut length 5mm, tip to pivot length 11mm
- Round handle, length 108mm

Corneal scissors specially designed for removal of the final corneal lamella in front of the Descemet's membrane. One blade is longer to avoid an accidental cut into the Descemet's membrane. The longer blade has a smoothly polished tip end to allow minimum dissection of any attachment between the Descemet's membrane and the corneal lamella.

1-219



## Anwar Corneal Scissors, Curved to Left



- Blunt tips, curved blades
- Long outer blade with smoothly polished ends
- Cut length 5mm, tip to pivot length 11mm
- Round handle, length 108mm

Corneal scissors specially designed for removal of the final corneal lamella in front of the Descemet's membrane. One blade is longer to avoid an accidental cut into the Descemet's membrane. The longer blade has a smoothly polished tip end to allow minimum dissection of any attachment between the Descemet's membrane and the corneal lamella.

1-400

## Castroviejo Corneal Scissors, Curved to Right


- Blunt tips, curved blades, right
- Cut length 5mm, tip to pivot length 10mm
- Flat handle, length 97mm

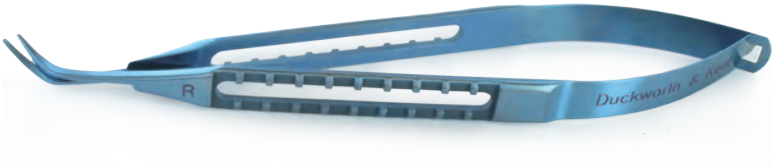
1-401

## Castroviejo Corneal Scissors, Curved to Left


- Blunt tips, curved blades, left
- Cut length 5mm, tip to pivot length 10mm
- Flat handle, length 97mm

1-410

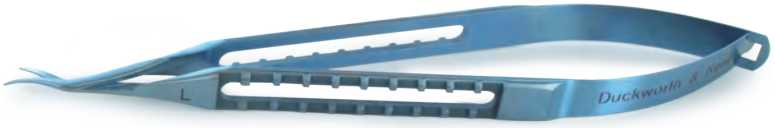
## Castroviejo Corneal Scissors, Curved to Right




- Blunt tips, curved blades, right
- Cut length 5mm, tip to pivot length 10mm
- Flat handle, length 113mm

1-411

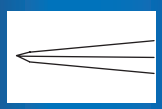
## Castroviejo Corneal Scissors, Curved to Left




- Blunt tips, curved blades, left
- Cut length 5mm, tip to pivot length 10mm
- Flat handle, length 113mm

# Iris

1-210



## DK Iris Scissors, Straight

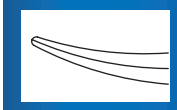

- Sharp tips, straight blades
- Cut length 4mm, tip to pivot length 11mm
- Round handle, length 107mm

1-211

## DK Iris Scissors, Curved


- Sharp tips, curved blades
- Cut length 4mm, tip to pivot length 11mm
- Round handle, length 107mm

## 1-211B

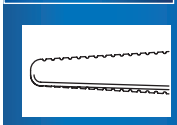


### DK Iris Scissors, Curved

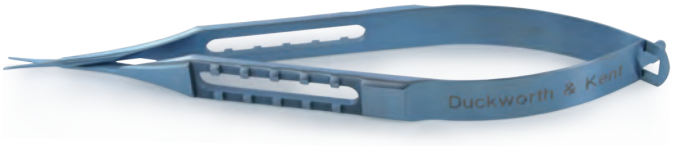
- Blunt tips, curved blades
- Cut length 4mm, tip to pivot length 11mm
- Round handle, length 107mm

# IOL Cutters

## 1-700

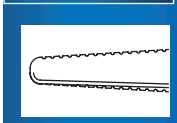


### Osher IOL Cutter, Straight



- Blunt tips with micro serrated blades
- Cut length 5mm
- Tip to pivot length 9.5mm
- Flat handle, length 98mm

## 1-705

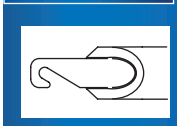


▶ Video Available

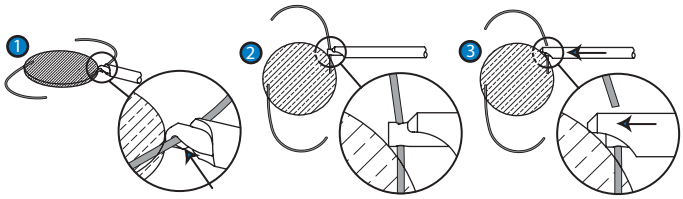
### Osher IOL Cutter, Angled

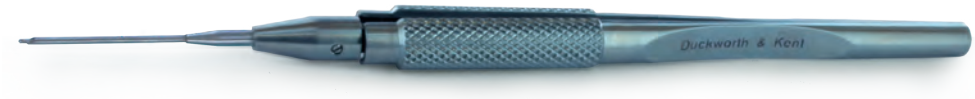
- Blunt tips with micro serrated blades
- Cut length 5mm
- Tip to pivot length 9.5mm
- Flat handle, length 94mm

## 1-805



### Osher Haptic Cutter



- 20 gauge, 20mm long shaft
- Squeeze action activates jaws to sever haptic
- Round squeeze handle, length 123mm

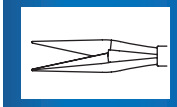
Tips of the the Osher Haptic Cutter have a notch that fits over and grasps the haptic (fig1). When the handle of the Osher Haptic Cutter is squeezed (fig2 - 3) the outside tube of the tip moves forwards and severs the haptic.

# Retinal - Fixed Heads

The fixed head range of vitreoretinal forceps and scissors are one piece devices featuring the same tip and handle design as the interchangeable head.

All fixed head vitreoretinal forceps and scissors are supplied with a protective guard which can be sterilised.

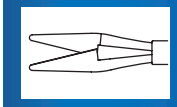
## 1-841



### Squeeze Handle Straight Micro Scissors - 23 Gauge

- Sharp tipped straight micro scissors
- 2.2mm long blade
- Straight 23 gauge tube, length 32.5mm
- Squeeze action handle closes scissors
- Round squeeze handle, length 138mm

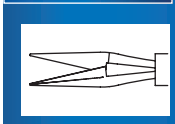
## 1-841B



### Squeeze Handle Straight Micro Scissors - 23 Gauge

- Blunt tipped straight micro scissors
- 1.9mm long blade
- Straight 23 gauge tube, length 32.5mm
- Squeeze action handle closes scissors
- Round squeeze handle, length 138mm

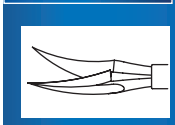
**1-841-1**



## Squeeze Handle Straight Micro Scissors - 20 Gauge

- Sharp tipped straight micro scissors
- 2.5mm long blade
- Straight 20 gauge tube, length 32.5mm
- Squeeze action handle closes scissors
- Round squeeze handle, length 138mm

**1-842**



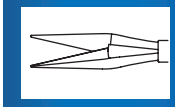
## Squeeze Handle Curved Blade Micro Scissors - 23 Gauge

- Sharp tipped curved micro scissors
- 2.2mm long blade
- Straight 23 gauge tube, length 32.5mm
- Squeeze action handle closes scissors
- Round squeeze handle, length 139mm

# Retinal - Interchangeable Heads

All Interchangeable Vitreoretinal (VR) Heads are sold separate from the handle. The VR Heads require a handle for operation. ONLY the DK Squeeze Handle for VR Instrument Heads, ref 6-676, is suitable. All VR Heads come fitted with a plastic (PEEK) re-usable Protective Cover, that can withstand cleaning and reprocessing cycles. The VR Heads are screwed onto the thread of DK Squeeze Handle for VR Instrument Heads. It is recommended, for device protection, to keep the plastic (PEEK) re-usable protective cover fitted until the instrument is required for use.

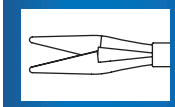
**1-841N**



## Straight Micro Scissors Head, 23 Gauge

- Sharp tipped straight micro scissors
- 2.2mm long blade
- Straight 23 gauge tube, length 31.3mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 144mm

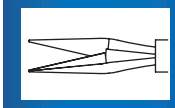
**1-841BN**



## Straight Blunt Micro Scissors Head, 23 Gauge

- Blunt tipped straight micro scissors
- 1.9mm long blade
- Straight 23 gauge tube, length 31.3mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 144mm

**1-841-1N**



## Straight Micro Scissors Head, 20 Gauge

- Sharp tipped straight micro scissors
- 2.5mm long blade
- Straight 20 gauge tube, length 31.3mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 144mm

**1-842N**

## Curved Blade Micro Scissors Head, 23 Gauge

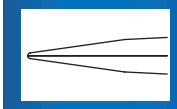
- Sharp tipped curved micro scissors
- 2.2mm long blade
- Straight 23 gauge tube, length 31.3mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 144mm

**6-676**

## Squeeze Handle for Vitreoretinal Instrument Heads

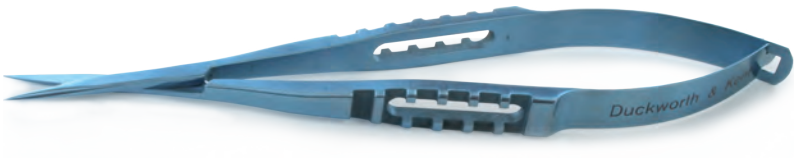
- Suitable for all Duckworth & Kent Vitreoretinal Instrument Heads
- Overall Length 92 mm (without head)
- Squeeze action handle

**1-500**

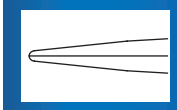


## Westcott Style Stitch Scissors, Straight

- Semi-sharp tips, straight blades
- Cut length 10mm, tip to pivot length 20mm
- Flat handle, length 115mm

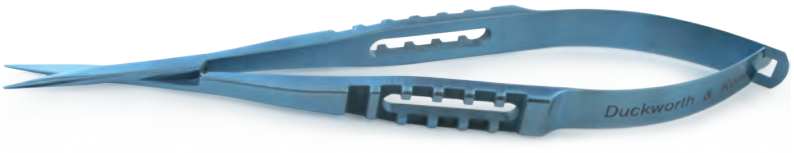



**1-500B**

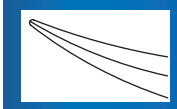


## DK Westcott Style Stitch Scissors, Straight

- Blunt tips, straight blades
- Cut length 9mm, tip to pivot length 20mm
- Flat handle, length 115mm

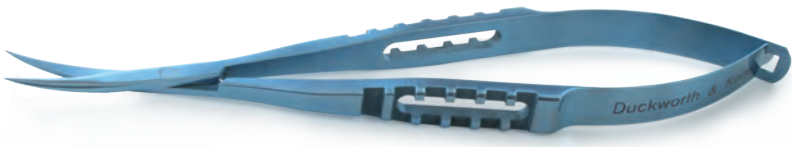



**1-501**

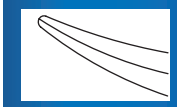


## Westcott Style Stitch Scissors, Curved

- Semi-sharp tips, curved blades
- Cut length 10mm, tip to pivot length 20mm
- Flat handle, length 115mm



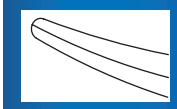

**1-501B**



## DK Westcott Style Stitch Scissors, Curved

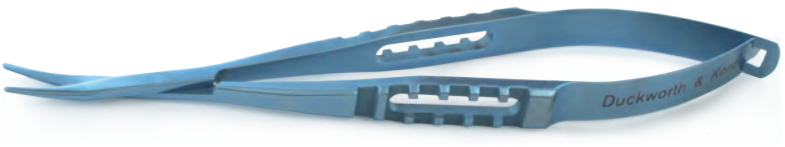
- Blunt tips, curved blades
- Cut length 9mm, tip to pivot length 20mm
- Flat handle, length 115mm


**1-510**

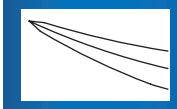


## Westcott Style Tenotomy Scissors, Curved

- Blunt tips, curved blades
- Cut length 10mm, tip to pivot length 20mm
- Flat handle, length 115mm

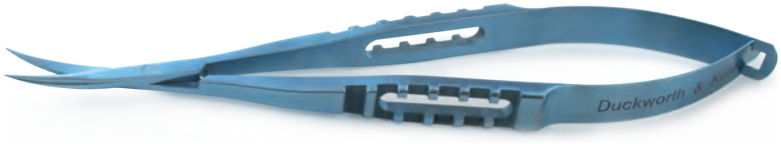



**1-512**



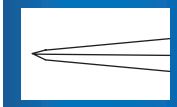
## Westcott Style Tenotomy Scissors, Curved

- Sharp tips, curved blades
- Cut length 10mm,tip to pivot length 20mm
- Flat handle, length 115mm



# Vannas

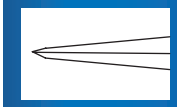
## 1-110



**Vannas Scissors, Straight**

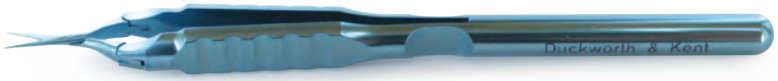
- Sharp tips, straight blades
- Cut length 5mm, tip to pivot length 9mm
- Flat handle, length 97mm


## 1-110N

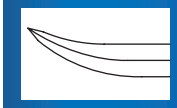


**Vannas Scissors, Straight**

- Sharp tips, straight blades
- Cut length 5mm, tip to pivot length 9mm
- Flat handle, length 109mm

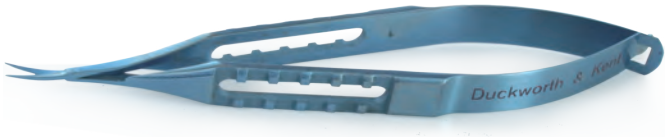



## 1-111

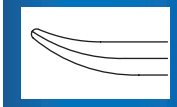


**Vannas Scissors, Curved**

- Sharp tips, curved blades
- Cut length 5mm, tip to pivot length 9mm
- Flat handle, length 97mm

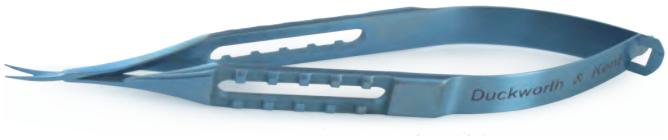



## 1-111B

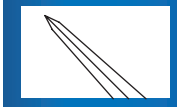


**DK Vannas Scissors, Curved**

- Blunt tips, curved blades
- Cut length 5mm, tip to pivot length 9mm
- Flat handle, length 97mm

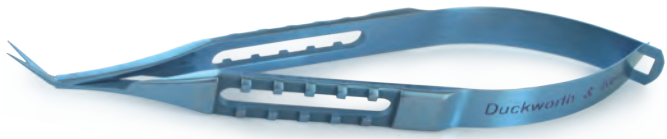



## 1-112

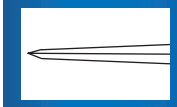


**DK Vannas Scissors, Angled**

- Sharp tips, angled blades
- Cut length 5mm, tip to pivot length 9mm
- Flat handle, length 97mm

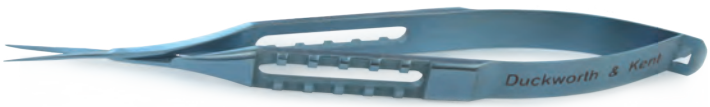



## 1-120

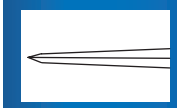


**DK Vannas Scissors, Straight**

- Sharp tips, straight blades
- Cut length 8mm, tip to pivot length 15mm
- Flat handle, length 103mm

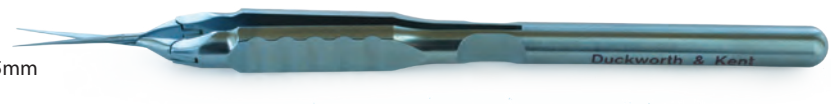



## 1-120N



**Vannas Scissors, Straight**

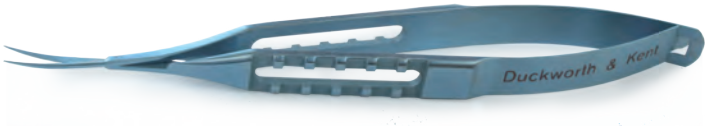
- Sharp tips, straight blades
- Cut length 8mm, tip to pivot length 15mm
- Flat handle, length 116mm




## 1-121

**DK Vannas Scissors, Curved**

- Sharp tips, curved blades
- Cut length 8mm, tip to pivot length 15mm
- Flat handle, length 103mm

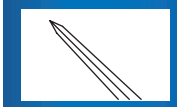


1-122

## Gills-Welsh-Vannas Scissors, Angled

- Sharp tips, angled blades
- Cut length 9mm, tip to pivot length 16.5mm
- Flat handle, length 100mm


1-312



## DK Gills-Vannas Scissors, Angled

- Sharp tips, angled blades
- Cut length 6mm, tip to pivot length 11.5mm
- Flat handle, length 97mm

# Quality Control

Quality comes as second nature to Duckworth & Kent and we pride ourselves on the quality of medical devices we produce.

Duckworth & Kent applies rigorous inspection procedures throughout the manufacturing process. Everyone in the company is trained to recognise the need for scrupulous attention to detail in the tasks they carry out. Our staff appreciates the importance of producing quality products to ensure guaranteed reliability.

As well as final inspection, the company's inspection department carries out inspection at various stages of manufacturing.

With over 50 years specialising in precision engineering, Duckworth & Kent offers a high standard of quality is hard to surpass.

REUSABLE TITANIUM INSTRUMENTS

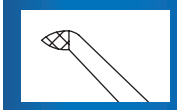
MANUFACTURED IN ENGLAND

# Forceps

Capsulorhexis
Cilia / Epilation
Clamps
Colibri
Conjunctival
Corneal
Flap Lifting
Gland Pressing
Intraocular Lens
KAMRA™
Laser Protection
Muscle
Pierse / Notched
Nucleus Cracking and Prechopping
Oculoplastics
Plain Tip
ReLEx® SMILE
Retinal
Toothed
Tying

## 2-712NR8

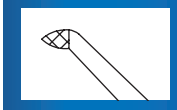
### DK Utrata Capsulorhexis Forceps, Curved Shafts

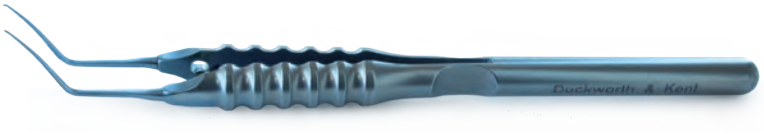


- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Curved shafts, tip to curve length 13mm
- 8mm diameter round handle, length 115mm

## 2-712-1NR8

### DK Utrata Capsulorhexis Forceps, Curved Shafts





- Utrata style tips
- 1mm increment markings along shafts
- Iris stop platforms 8.5mm from tips
- Curved shafts, tip to curve length 13mm
- 8mm diameter round handle, length 115mm

The 1mm markings along the shafts provide a gauge to estimate the size of the capsulorhexis.

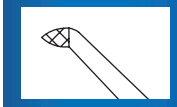
## 2-714NR

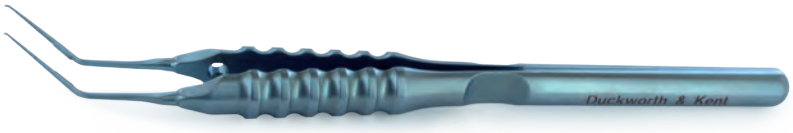
### DK Utrata Capsulorhexis Forceps, Straight Shafts

- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Straight shafts, tip to angle length 13mm
- 10mm diameter round handle, length 115mm

## 2-714NR8

### DK Utrata Capsulorhexis Forceps, Straight Shafts

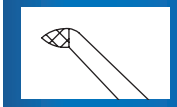


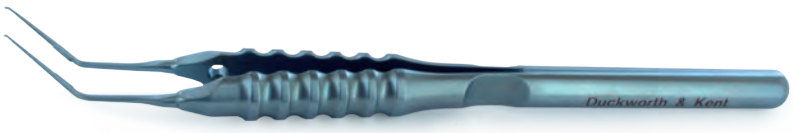


- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Straight shafts, tip to angle length 13mm
- 8mm diameter round handle, length 115mm

## 2-714-1NR8

### DK Utrata Capsulorhexis Forceps, Straight Fine Shafts

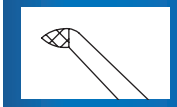




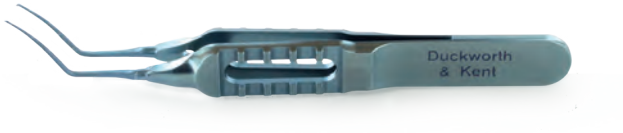
- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Straight fine shafts, tip to angle length 13mm
- 8mm diameter round handle, length 115mm

## 2-718

### DK Utrata Capsulorhexis Forceps, Curved Shafts

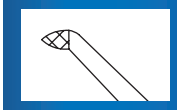


- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Curved shafts, tip to curve length 13mm
- Flat handle, length 89mm




## 2-718N

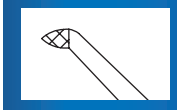
### Utrata Capsulorhexis Forceps, Curved Shafts



- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Curved shafts, tip to curve length 13mm
- Flat handle, length 84mm


## 2-719

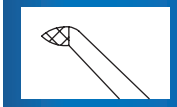
### Utrata Capsulorhexis Forceps, Straight Shafts



- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Straight shafts, tip to angle length 13mm
- Flat handle, length 88mm


## 2-719N

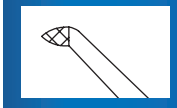
### Utrata Capsulorhexis Forceps, Straight Shafts



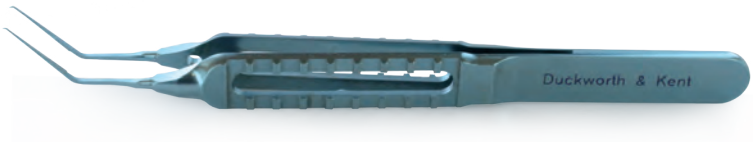
- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Straight shafts, tip to angle length 13mm
- Flat handle, length 84mm


## 2-719-1

### Utrata Capsulorhexis Forceps, Straight Shafts



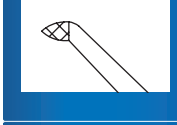
- Utrata style tips
- Iris stop platforms 8.5mm from tips
- Straight shafts, tip to angle length 13mm
- Flat long handle, length 115mm




## Capsulorhexis, Utrata Direct Action — 2.2mm Incision

## 2-719-3

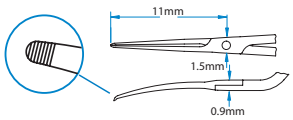
### Utrata Capsulorhexis Forceps, Straight Shafts



- Utrata style tips
- Straight shafts, tip to angle length 13mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Flat handle, length 88mm

**2-2-706G**

## Mackool-Inamura Flat Handle Capsulorhexis Forceps with Blunt Tips



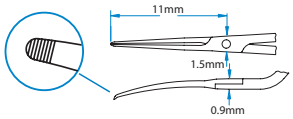


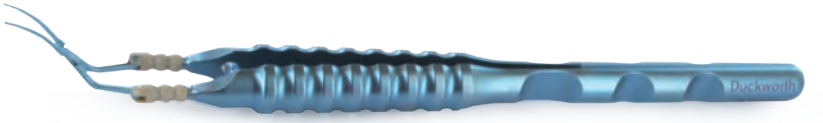
- Blunt serrated interlocking tips
- Curved shaft
- Tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- Flat handle, overall length 120mm

When entering through a corneal incision, the increased curvature of the shafts prevent corneal deformation during use. The smooth blunt tips ensure easy entry.

**2-2-706GR**

## Mackool-Inamura Round Handle Capsulorhexis Forceps with Blunt Tips



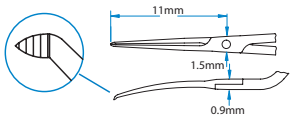




- Blunt serrated interlocking tips
- Curved shaft
- Tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- 8mm diameter round handle, overall length 120mm

When entering through a corneal incision, the increased curvature of the shafts prevent corneal deformation during use. The smooth blunt tips ensure easy entry.

**2-2-706G-1**

## Mackool-Inamura Flat Handle Capsulorhexis Forceps with Pointed Tips



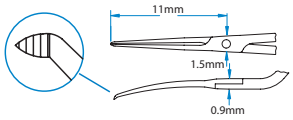


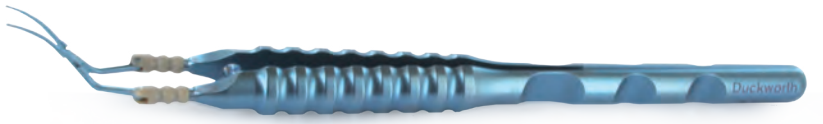
- Pointed serrated interlocking tips
- Curved shaft
- Tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- Flat handle, overall length 120mm

When entering through a corneal incision, the increased curvature of the shafts prevent corneal deformation during use. The pointed tips puncture the anterior capsule to initiate the tear.

**2-2-706G-1R**

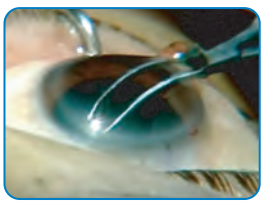
## Mackool-Inamura Round Handle Capsulorhexis Forceps with Pointed Tips

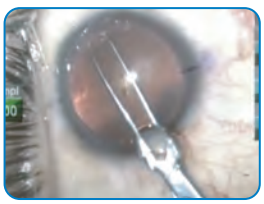


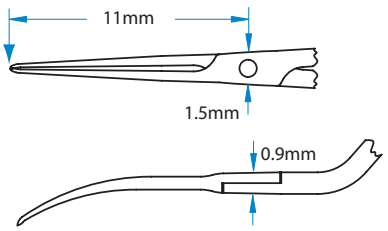

- Pointed serrated interlocking tips
- Curved shaft
- Tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- 8mm diameter round handle, overall length 120mm

When entering through a corneal incision, the increased curvature of the shafts prevent corneal deformation during use. The pointed tips puncture the anterior capsule to initiate the tear.





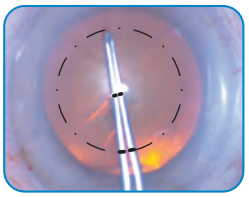
Increased curvature of the shafts prevent corneal deformation.



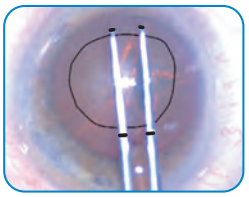

When entering through a corneal incision, the increased curvature of the shafts prevent corneal deformation during use. The forceps are available with either sharp pointed tips or smooth blunt tips, both have serrated interlocking platforms.

# Capsulorhexis, Calladine-Inamura Cross Action 1.8mm Incision

Consistent capsulorhexis size is crucial for optimal IOL function. Utilising the smooth action of the Inamura cross action capsulorhexis forceps, the new Calladine Inamura Capsulorhexis Forceps incorporate a visible scale engraved at the functional end of the tips that denotes the desired diameter and radius of the capsulorhexis. The surgeon can repeatedly measure the size of the capsulorhexis using the forceps within the anterior chamber. It has been found that measuring on the cornea surface overestimates the actual size of the capsulorhexis when measured within the anterior chamber by up to 20%.



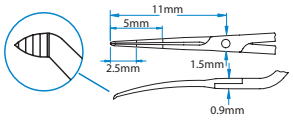
Scale at tips enables the surgeon to visualise the desired rhexis size just prior to and validate just after its creation.



Measuring on the cornea surface can overestimate the actual size of the capsulorhexis by up to 20%.

## 2-2-716G-8

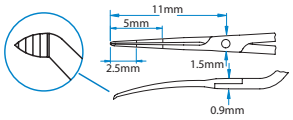
### Calladine-Inamura Flat Handle Capsulorhexis Forceps, Scleral Tunnel Incision




- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- Flat handle, overall length 120mm

## 2-2-716G-8S

### Calladine-Inamura Short Flat Handle Capsulorhexis Forceps, Scleral Tunnel Incision

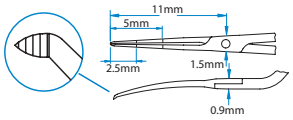



- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- Short flat handle, overall length 92mm

## 2-2-716G-8R

▶ Video Available

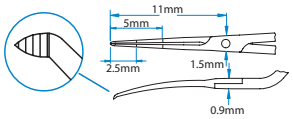
### Calladine-Inamura Round Handle Capsulorhexis Forceps, Scleral Tunnel Incision




- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- 8mm diameter round handle, overall length 120mm

## 2-2-716G-8RS

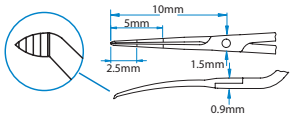
### Calladine-Inamura Short Round Handle Capsulorhexis Forceps, Scleral Tunnel Incision

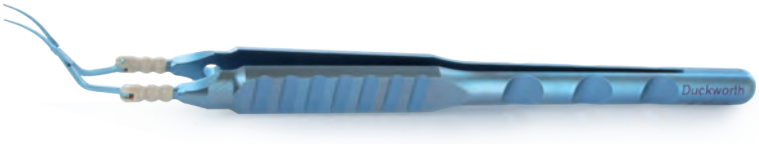



- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 11mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- 8mm diameter short round handle, overall length 92mm

## 2-2-716G-9

### Calladine-Inamura Flat Handle Capsulorhexis Forceps, Corneal Incision



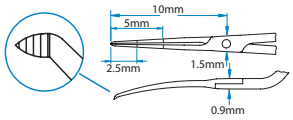




- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 10mm
- Cross action tips, 1.5mm width at pivot box

- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- Flat handle, overall length 119mm

## 2-2-716G-9S

### Calladine-Inamura Short Flat Handle Capsulorhexis Forceps, Corneal Incision

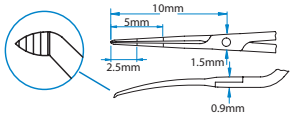


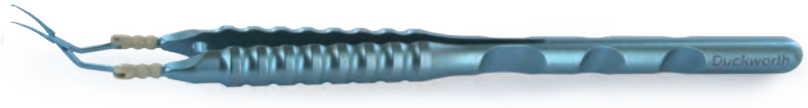

- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 10mm
- Cross action tips, 1.5mm width at pivot box

- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- Short flat handle, overall length 91mm

## 2-2-716G-9R

### Calladine-Inamura Round Handle Capsulorhexis Forceps, Corneal Incision



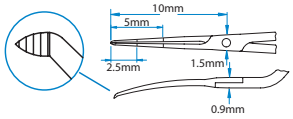




- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 10mm
- Cross action tips, 1.5mm width at pivot box

- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- 8mm diameter round handle, overall length 119mm

## 2-2-716G-9RS

### Calladine-Inamura Short Round Handle Capsulorhexis Forceps, Corneal Incision

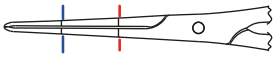
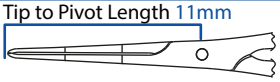
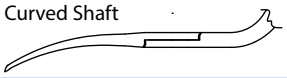



- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 10mm
- Cross action tips, 1.5mm width at pivot box

- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- 8mm diameter short round handle, overall length 91mm

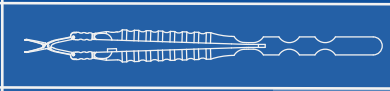
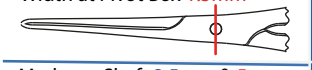
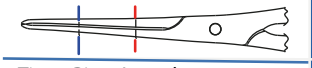
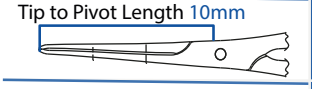
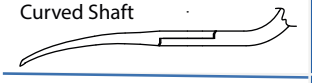
## Comparison Chart - Calladine-Inamura Cross Action - Scleral Tunnel - 8/8S/8R/8RS

### Calladine-Inamura Capsulorhexis Forceps — Scleral Tunnel 1.8mm Incision

| Product Number | 2-2-716G-8 | 2-2-716G-8S | 2-2-716G-8R | 2-2-716G-8RS |
|---|---|---|---|---|
| Handle Type |  Flat Handle | |  Round Handle | |
| Handle Length Long Handle 120mm | ✓ | | ✓ | |
| Handle Length Short Handle 92mm | | ✓ | | ✓ |
| Width at Pivot Box 1.5mm  | ✓ | | | |
| Marks on Shaft 2.5mm & 5mm  | ✓ | | | |
| Tip to Pivot Length 11mm  | ✓ 11mm | | | |
| Curved Shaft  | ✓ | | | |
| All Tips - Angled 45° - Sharp - Serrated  | ✓ | | | |

## Comparison Chart - Calladine-Inamura Cross Action - Corneal Incision - 9/9S/9R/9RS

### Calladine-Inamura Capsulorhexis Forceps — Corneal Incision 1.8mm Incision

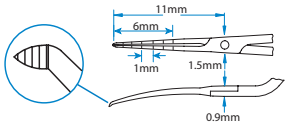
| Product Number | 2-2-716G-9 | 2-2-716G-9S | 2-2-716G-9R | 2-2-716G-9RS |
|---|---|---|---|---|
| Handle Type |  Flat Handle | |  Round Handle | |
| Handle Length Long Handle 119mm | ✓ | | ✓ | |
| Handle Length Short Handle 91mm | | ✓ | | ✓ |
| Width at Pivot Box 1.5mm  | ✓ | | | |
| Marks on Shaft 2.5mm & 5mm  | ✓ | | | |
| Tip to Pivot Length 10mm  | ✓ 10mm | | | |
| Curved Shaft  | ✓ | | | |
| All Tips - Angled 45° - Sharp - Serrated  | ✓ | | | |

## Capsulorhexis, Jones-Inamura Cross Action — 1.8mm Incision

**2-2-716G-10**

▶ Video Available

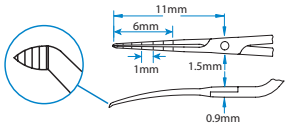
### Jones-Inamura Flat Handle Capsulorhexis Forceps, Suitable For Scleral Tunnel Incision

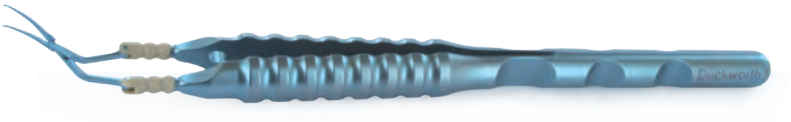



- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 11mm
- Marks on shaft every 1mm from tip to 6mm
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- Flat handle, overall length 120mm

**2-2-716G-10R**

### Jones-Inamura Round Handle Capsulorhexis Forceps, Suitable For Scleral Tunnel Incision



- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 11mm
- Marks on shaft every 1mm from tip to 6mm
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- 8mm diameter round handle, overall length 120mm

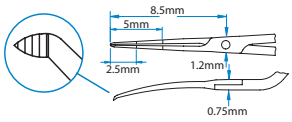
Accurate capsulorhexis size is crucial for optimal IOL function. Dr Jones has utilised the Inamura cross action capsulorhexis forceps by adding an engraved scale from the tip to 6mm along the shaft. The scale is in 1mm increments and enables the surgeon to repeatedly measure the size of the capsulorhexis using the forceps within the anterior chamber. Measuring on the cornea surface overestimates the actual size of the capsulorhexis when compared with the anterior chamber measurement.

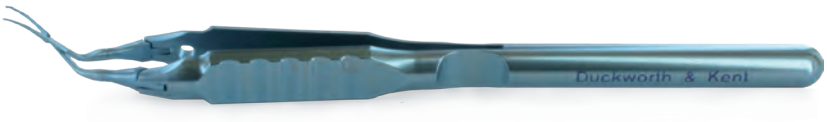
## Capsulorhexis, Inamura Cross Action — 1.5mm Incision

**2-716GN**

▶ Video Available

### Inamura Flat Handle Capsulorhexis Forceps, Corneal Incision

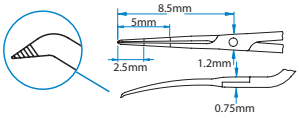



- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 8.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° to handle
- Flat handle, overall length 111mm

**2-716GN-2**

### Inamura Flat Handle Capsulorhexis Forceps, Corneal Incision

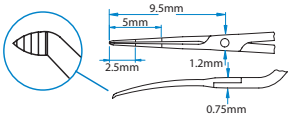




- Extra sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 8.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 90° from shaft
- Flat handle, overall length 111mm

**2-716GN-3**

### Inamura Flat Handle Capsulorhexis Forceps, Corneal Incision

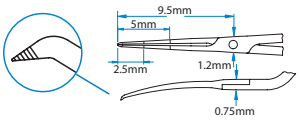




- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 9.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- Flat handle, overall length 111mm

## 2-716GN-4

### Inamura Flat Handle Capsulorhexis Forceps, Corneal Incision

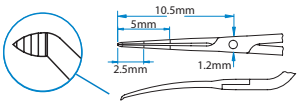




- Extra sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 9.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 90° from shaft
- Flat handle, overall length 111mm

## 2-716GN-5

### Inamura Flat Handle Capsulorhexis Forceps, Scleral Incision

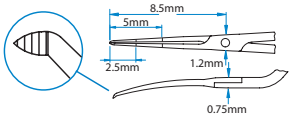




- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 10.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- Flat handle, overall length 111mm

## 2-716GNR8

### Inamura Round Handle Capsulorhexis Forceps, Corneal Incision

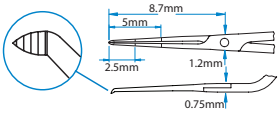


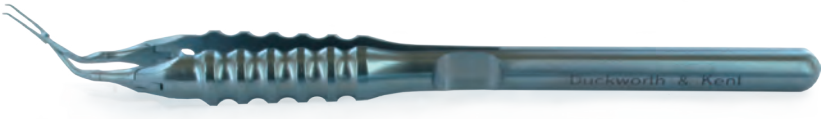


- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 8.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- 8mm diameter round handle, overall length 111mm

## 2-716GNR8-1

### Inamura Round Handle Capsulorhexis Forceps, Corneal Incision

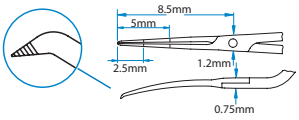



- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Straight shaft, tip to pivot point 8.7mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- 8mm diameter round handle, overall length 111mm

## 2-716GNR8-2

### Inamura Round Handle Capsulorhexis Forceps, Corneal Incision

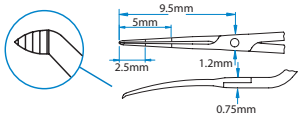


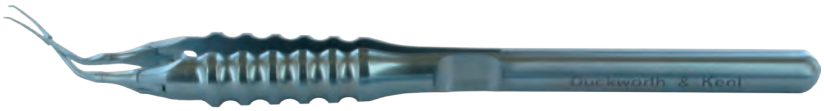


- Extra sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 8.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 90° from shaft
- 8mm diameter round handle, overall length 111mm

## 2-716GNR8-3

### Inamura Round Handle Capsulorhexis Forceps, Corneal Incision

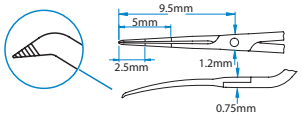


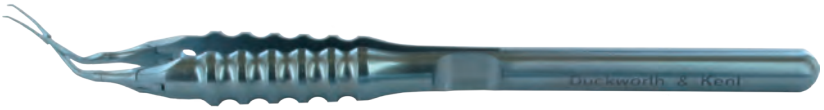




- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 9.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- 8mm diameter round handle, overall length 111mm

## 2-716GNR8-4

### Inamura Round Handle Capsulorhexis Forceps, 90° Tips, Corneal Incision

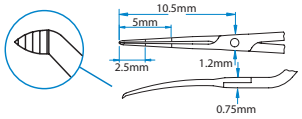



- Extra sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 9.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- 8mm diameter round handle, overall length 112mm

## 2-716GNR8-5

### Inamura Round Handle Capsulorhexis Forceps, Corneal Incision





- Sharp pointed serrated tips
- Cross action tips, 1.2mm width at pivot box
- Curved shaft, tip to pivot point 10.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- 8mm diameter round handle, overall length 112mm

## Comparison Chart - Inamura Capsulorhexis Forceps

### Inamura Capsulorhexis Forceps — 1.5mm Incision

| Product Number | 2-716GN | 2-716GN-2 | 2-716GN-3 2-716GN-5 | 2-716GN-4 | 2-716GNR8 | 2-716GNR8-1 | 2-716GNR8-2 | 2-716GNR8-3 2-716GNR8-5 | 2-716GNR8-4 |
|---|---|---|---|---|---|---|---|---|---|
| Handle Type<br>All Handle Lengths = 111mm | Flat Handle | | | | Round Handle | | | | |
| Width at Pivot Box 1.2mm | ✓ | | | | | | | | |
| Marks on Shaft 2.5mm & 5mm | ✓ | | | | | | | | |
| Tip to Pivot Length 8.5mm | ✓ | ✓ | | | ✓ | ✓ | ✓ | | |
| Tip to Pivot Length 9.5mm | | | 2-716GN-3 ✓ | ✓ | | | | 2-716GNR8-3 ✓ | ✓ |
| Tip to Pivot Length 10.5mm | | | 2-716GN-5 ✓ | | | | | 2-716GNR8-5 ✓ | |
| Curved or Straight Shaft | Curved | | | | Curved | Straight | Curved | Curved | Curved |
| Tip - Angle - 45° or 90°<br>- Sharpness<br>- Serrated | 45° Sharp | 90° Extra Sharp | 45° Sharp | 90° Extra Sharp | 45° Sharp | 45° Sharp | 90° Extra Sharp | 45° Sharp | 90° Extra Sharp |

## Capsulorhexis, Inamura Cross Action — 1.8mm Incision

### 2-716GW

**Inamura Flat Handle Capsulorhexis Forceps, Serrated Cross Action Tips**


- Sharp pointed serrated tips angled 45° from shaft
- Curved shaft, tip to pivot point 9.5mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Flat handle, overall length 110mm

### 2-716GWR8

**Inamura Round Handle Capsulorhexis Forceps, Serrated Cross Action Tips**


- Sharp pointed serrated tips angled 45° from shaft
- Curved shaft, tip to pivot point 9.5mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- 8mm diameter round handle, overall length 110mm

### 2-716GW-2

**Inamura Flat Handle Capsulorhexis Forceps, Serrated Cross Action Tips**


- Sharp pointed serrated tips angled 45° from shaft
- Curved shaft, tip to pivot point 8.5mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Flat handle, overall length 110mm

### 2-716GWR8-2

**Inamura Round Handle Capsulorhexis Forceps, Serrated Cross Action Tips**


- Sharp pointed serrated tips angled 45° from shaft
- Curved shaft, tip to pivot point 8.5mm
- Cross action tips, 1.5mm width at pivot box
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- 8mm diameter round handle, overall length 110mm

# Comparison Chart - Inamura Capsulorhexis Forceps

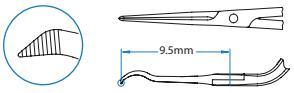
## NEW Inamura Capsulorhexis Forceps — 1.8mm Incision

| Product Number | 2-716GW | 2-716GW-2 | 2-716GWR8 | 2-716GWR8-2 |
|---|---|---|---|---|
| Handle Type | Flat Handle | | Round Handle | |
| Handle Length | 110mm | | | |
| Width at Pivot Box 1.5mm | ✓ | | ✓ | |
| Marks on Shaft 2.5mm & 5mm | ✓ | | ✓ | |
| Tip to Pivot Length 8.5mm | | ✓ | | ✓ |
| Tip to Pivot Length 9.5mm | ✓ | | ✓ | |
| Curved Shaft | ✓ | | ✓ | |
| All Tips - Angled 45° - Sharp - Serrated | ✓ | | ✓ | |

# Brown-Inamura Capsulorhexis Forceps

**2-716GWR8-5**

## Brown-Inamura Capsulorhexis Forceps





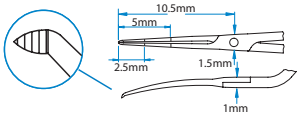
- Sharp pointed serrated interlocking tips
- 50° angled straight shaft with curved tip
- Tip to pivot point 9.5mm
- Cross action tips, 1.5mm width at pivot box
- 8mm diameter round handle, overall length 110mm

Curved tip allows the forceps to go over the top of steeply domed cataracts and especially mature cataracts where the capsule is under stress. The curve stops the shafts of the forceps putting downward pressure on the centre of the cataract.

# E-Range Inamura Capsulorhexis Forceps — 1.8mm Incision

**2-716GE-1**

## Inamura Flat Handle Capsulorhexis Forceps, Serrated Cross Action Tips

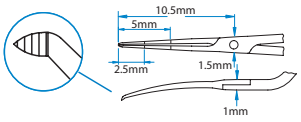




- Sharp pointed serrated tips
- Cross action tips, 1.5mm width at pivot box
- Curved shaft, tip to pivot point 10.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- Flat handle, overall length 111mm
- Design registration number 004383396-0001

## 2-716GE-1S

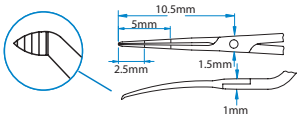
### Inamura Flat Handle Capsulorhexis Forceps, Serrated Cross Action Tips




- Sharp pointed serrated tips
- Cross action tips, 1.5mm width at pivot box
- Curved shaft, tip to pivot point 10.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- Flat handle, overall length 86mm
- Design registration number 004383396-0001

## 2-716GER8-1

### Inamura Round Handle Capsulorhexis Forceps, Serrated Cross Action Tips

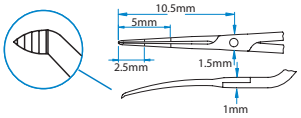




- Sharp pointed serrated tips
- Cross action tips, 1.5mm width at pivot box
- Curved shaft, tip to pivot point 10.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- Round handle, overall length 111mm
- Design registration number 004383396-0001

## 2-716GER8-1S

### Inamura Round Handle Capsulorhexis Forceps, Serrated Cross Action Tips



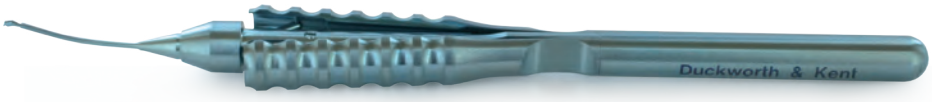


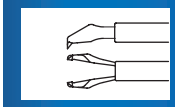
- Sharp pointed serrated tips
- Cross action tips, 1.5mm width at pivot box
- Curved shaft, tip to pivot point 10.5mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Tips angled 45° from shaft
- Round handle, overall length 86mm
- Design registration number 004383396-0001

# Small Incision Capsulorhexis — 1mm Incision

## 2-847-4

### DK Squeeze Handle Capsulorhexis Forceps



- Fine pointed tips with platforms
- 0.9mm tip opening
- Curved 23 gauge tube
- Squeeze action activates both jaws
- Round squeeze handle, length 120mm

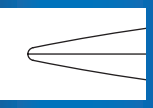
**POINTED TIPS**
Fine precise titanium tips with a sharp point enables the surgeon to initiate the capsule tear then securely grasp the capsule to perform the capsulorhexis.

**TITANIUM TUBE**
Ø0.7mm polished curved 23 gauge tube and front section are made from single piece of titanium. Single piece construction allows for improved durability.

**TITANIUM HANDLE**
Sleek, symmetrical lightweight handle for exceptional balance and control. Squeeze action mechanism activates tips.

## 2-195

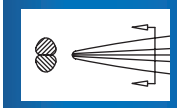
### DK Beaupre Cilia Forceps



- Tapered, smooth tips
- 30° angled shafts, tip to angle length 10.5mm
- Flat cross action handle, length 105mm

## 2-195-1

### Otaka Cilia Forceps

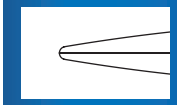


- Tapered, smooth oval tips
- 30° angled shafts, tip to angle length 10.5mm
- Flat cross action handle, length 105mm

Oval shape of jaws reduce contact area with cilia , thereby allowing cilia to fall away when removed.

## 2-195NR8

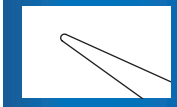
### DK Round Handle Cilia Forceps

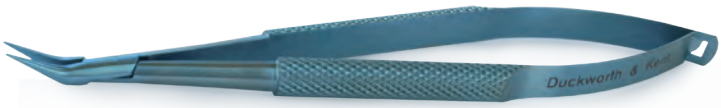


- Tapered, smooth tips
- 30° angled shafts, tip to angle length 11.5mm
- 8mm diameter round cross action handle, length 115mm

## 2-196

### KY Cilia Forceps

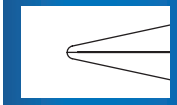




- Medium angled jaws
- 30° angled shafts, tip to angle length 8.5mm
- Round handle, length 107mm

## 2-2195
## 2-2195E

### Cilia Forceps



- Tapered, smooth tips
- 30° angled shafts, tip to angle length 7mm
- 2-2195 - Short ridged handle, length 85mm
  - Single piece construction
- 2-2195E - Short ridged handle, length 90mm
  -Design registration number 004383396-0001

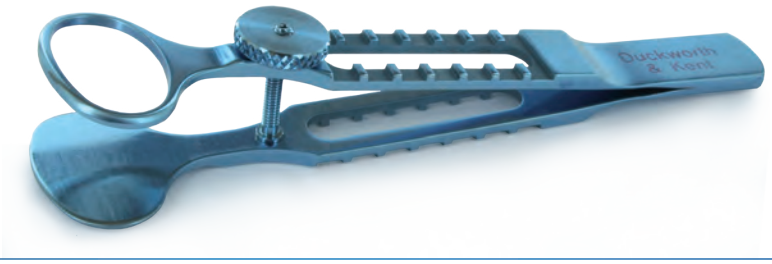
2-2195

2-2195E

# Clamps

## 2-640 DK Desmarres Chalazion Forceps / Clamp

- 17.5mm internal / 20mm external oval circular working diameter upper plate
- 20mm diameter lower plate
- Polished finish lower plate
- Flat handle, locking thumb screw, length 88mm




## 2-685 DK Conjunctival Clamp


- 6.5mm wide highly polished tips
- Length 73mm

Designed to hold and protect 'free' edge of conjunctival flap created in trabeculectomy.

## 2-686 Khaw Small Conjunctival Clamp


- Holds conjunctiva securely
- Particularly useful during fornix based conjunctival incisions
- Single handed action
- Holds and protects the conjunctival edge during antimetabolite application
- Tip width 4mm
- Overall length 74mm

## 2-687 Khaw Large Conjunctival Clamp

- Holds conjunctiva securely
- Particularly useful during fornix based conjunctival incisions
- Single handed action
- Holds and protects the conjunctival edge during antimetabolite application
- Tip width 12mm
- Overall length 74mm

## 6-800 Barrett LeClip Utility Clamp

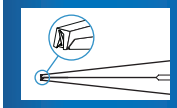
- 14mm serrated cross action jaws
- Length 82mm
- Distinctive identification labelling

Replaces need for a mosquito or artery forceps. Holds sutures to drape without piercing plastic.

## 6-805 Bulldog Clip

- 8.5mm serrated cross action jaws
- Length 46mm

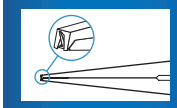
## 2-132



### DK Troutman-Barraquer Colibri Forceps, 0.12mm

- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 88mm

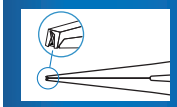

## 2-132N



### Colibri Toothed Forceps, 0.12mm

- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm

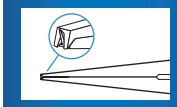

## 2-132D



### Toothed Colibri Forceps - Dolphin Handle, 0.12mm

- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Dolphin handle, length 94mm

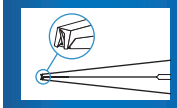

## 2-132-3N



### Colibri Toothed Forceps, 0.12mm

- 0.12mm, 1 x 2 teeth, tip length 1mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm

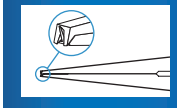

## 2-135



### DK Colibri Forceps, 0.12mm

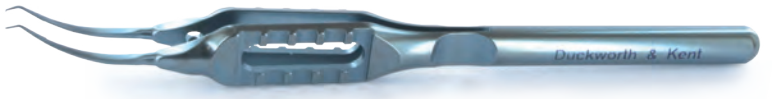
- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat long handle, length 115mm


## 2-135N

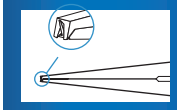


### Colibri Toothed Forceps, 0.12mm

- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Long flat handle, length 114mm



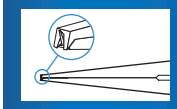
**2-135NR**



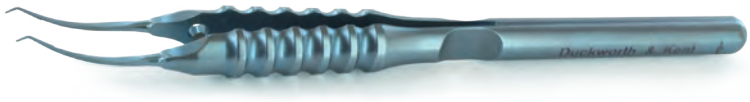
## Colibri Toothed Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- 10mm diameter round handle, length 114mm

**2-135NR8**

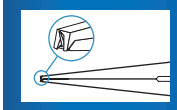


## Colibri Toothed Forceps, 0.12mm




- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- 8mm diameter round handle, length 114mm

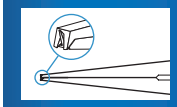
**2-214**



## DK Troutman-Barraquer Colibri Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 1.5mm
- 6mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm

**2-215**

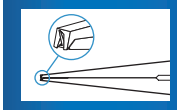


## DK Troutman-Barraquer Colibri Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 0.8mm
- 6mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm

# Colibri, 0.2 Toothed

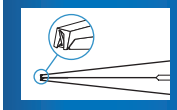
**2-132-2N**



## Colibri Toothed Forceps , 0.2mm


- 0.2mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm

**2-214-2**

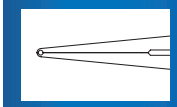


## DK Troutman-Barraquer Colibri Forceps , 0.2mm


- 0.2mm, 1 x 2 teeth, tip length 1.5mm
- 6mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm

## Colibri, Notched

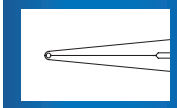
**2-130**



### DK Pierse Notched Colibri Forceps, 0.25mm

- Pierse 0.25mm notched, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 87mm

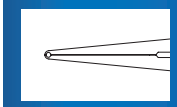

**2-130N**



### Colibri Notched Forceps, 0.25mm

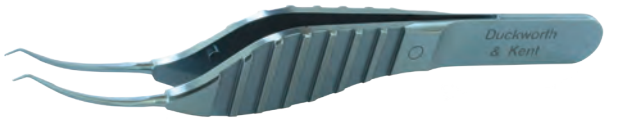
- Pierse 0.25mm notched, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm


**2-130D**



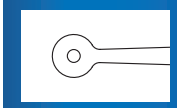
### Pierse Notched Colibri Forceps - Dolphin Handle, 0.25mm

- Pierse 0.25mm notched, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Dolphin handle, length 94mm




## Conjunctival

**2-167**

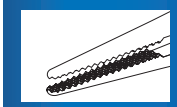


### Osher Conjunctival Forceps

- 1mm ring tips
- Straight shafts
- Flat handle, length 116mm

Allows atraumatic but firm grasp of conjunctiva.


**2-500-4E**

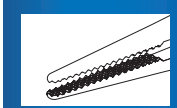


### Chihara Conjunctival Forceps

- 6mm platforms
- Serrated tips
- Straight shafts
- Flat handle, length 90mm
- Design registration number 004383396-0001

**2-500-4N** Alternative handle design also available. Visit www.duckworth-and-kent.com

**2-500-4N**

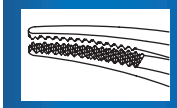


### Chihara Straight Conjunctival Forceps

- 6mm platforms
- Serrated tips
- Straight shafts
- Flat handle, length 84mm

## 2-501-2

### Chihara Curved Conjunctival Forceps

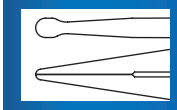


- 6mm platforms
- Serrated tips
- Curved shafts
- Flat handle, length 88mm


## 2-502N

▶ Video Available

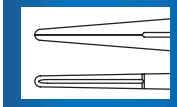
### Khaw Transconjunctival Adjustable Suture Control Forceps



- 5mm highly polished tying platforms
- For massaging and adjusting intraocular pressure to desired level
- Adjustable Suture Control technique
- Straight shafts
- Flat handle, length 84mm


## 2-503

### Otaka Conjunctival Forceps

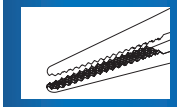



- Textured tips
- Straight shafts
- Grooved channel along platform length, stopping just before tip
- Flat handle, length 89mm

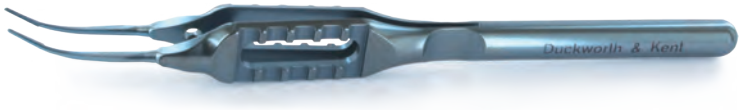
Features:
- Can be used for pterygium surgery
- Grooved channel down centre of platform helps reduce the amount of dried blood on tips
- Also used for tying 8-0 vicryl suture with its lateral platform

## 2-505-4N

### Chihara Curved Conjunctival Forceps



- 6mm platforms
- Serrated tips
- Curved shafts
- Flat handle, length 114mm




## 2-685

### DK Conjunctival Clamp


- 6.5mm wide highly polished tips
- Length 73mm

Designed to hold and protect 'free' edge of conjunctival flap created in trabeculectomy.

## 2-686

### Khaw Small Conjunctival Clamp


- Holds conjunctiva securely
- Particularly useful during fornix based conjunctival incisions
- Holds & protects the conjunctival edge during antimetabolite application
- Single handed action
- Tip width 4mm
- Overall length 74mm

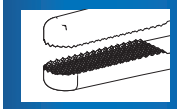
2-687

## Khaw Large Conjunctival Clamp

- Holds conjunctiva securely
- Particularly useful during fornix based conjunctival incisions
- Single handed action
- Holds and protects the conjunctival edge during antimetabolite application
- Tip width 12mm
- Overall length 74mm

2-510

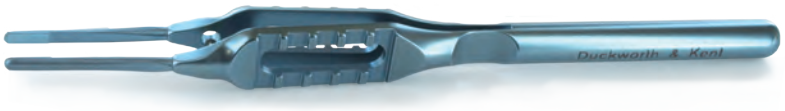
## Moorfields Utility Forceps

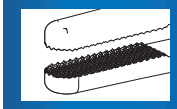



- Serrated tips, 2mm wide
- Straight shafts
- Flat handle, length 116mm

2-510N

## Moorfields Utility Forceps

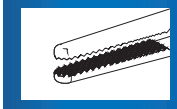


- Serrated tips, 2mm wide
- Straight shafts
- Flat handle, length 115mm

2-510-1

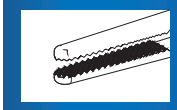
## Moorfields Utility Forceps

- Delicate serrated tips, 1mm wide
- Straight shafts
- Flat handle, length 116mm

2-510-1E

## Moorfields Utility Forceps



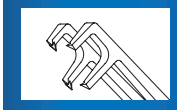
- Delicate serrated tips, 1mm wide
- Straight shafts
- Flat handle, length 115mm
- Design registration number 004383396-0001

2-510-1N Alternative handle design also available. Visit www.duckworth-and-kent.com

# Corneal

2-170

## DK Double Fixation Colibri Forceps

- 0.12mm, 1 x 2 teeth, 2 point fixation, 1mm separated
- Colibri style shafts
- Flat handle, length 84mm

## 2-170-1

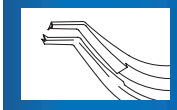
▶Video Available

### Ogawa Double Fixation Colibri Forceps

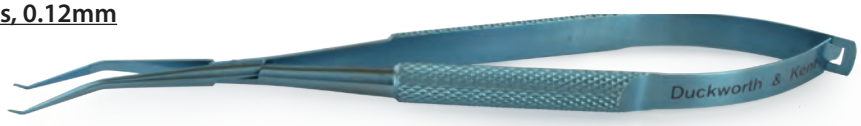

- 0.12mm, 1 x 2 teeth, 2 point fixation, 2.5mm separated
- Colibri style shafts
- Flat handle, length 87mm

The 2-170-1 is designed to grasp and elevate the anterior edge of the sclera-corneal incision when implanting the IMT (Implantable Miniature Telescope).

## 2-185

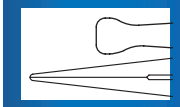


### Maumenee Corneal Forceps, 0.12mm




- 0.12mm, 1 x 2 teeth, tip length 2mm
- 20° angled shafts, tying platforms 10mm
- Miniature cross action Colibri style shafts
- Round cross action handle, length 127mm

## 2-285

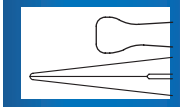


### DMEK Descemet's Stripping Forceps


- Smooth platforms
- Straight shafts
- Flat handle, length 88mm

The forceps are used to hold the edges of Descemet's when stripping membrane from the donor cornea.

## 2-287



### DMEK Angled Descemet's Stripping Forceps


- Smooth platforms
- Angled shafts
- Long handle, length 113mm

The forceps are used to hold the edges of Descemet's when stripping membrane from the donor cornea.

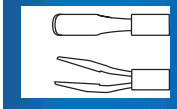
## 2-2-787-1

### DMEK Forceps

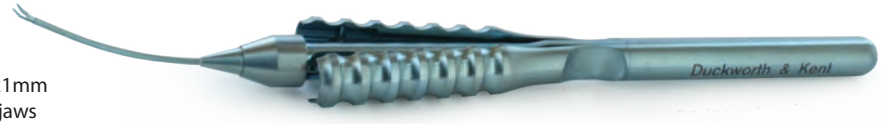

- Angled tip
- Serrated interlocking tips
- Tip to pivot point 9.8mm
- 1.5mm width at pivot box
- Tips angled 45° to handle
- Flat handle, length 118mm

These forceps have been specifically designed for DMEK procedures. The forceps are used to peel off the Descemet's membrane once it has been scored with a Descemet's Spatula.

## 2-838



### Descemet's Membrane Manipulation Forceps




- 3mm long tips angled 10°
- Curved 22 gauge tube, length 21mm
- Squeeze handle activates both jaws
- Round squeeze handle, length 123mm

Easy introduction through corneal incisions down to 20 gauge.
Safe membrane manipulation of both recipient and donor tissue with a low risk of rupture.

## Flap Lifting

**2-795**

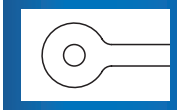
### Stein Utility / Flap Lifting Forceps


- Small flat ring tips
- 45° angled shafts, tip to angle length 4mm
- Flat handle, length 84mm

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

**2-798**

### DK Stein Utility Forceps

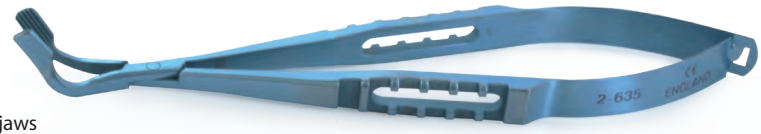
- Small flat ring tips, inner tip surfaces lightly textured
- 25° angled shafts, tip to angle length 3.5mm
- Flat handle, length 85mm

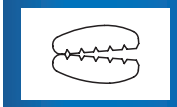
Designed with shortened, small flat ring tips for removal of contact lens at slit lamp microscope. Useful for contact lens removal following PRK and other refractive surgical procedures.

## Gland Pressing

**2-635**

### Kudo Meibomian Gland Pressing Forceps



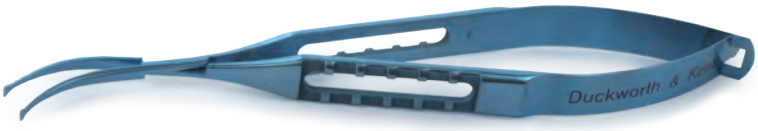



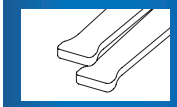
- 60° angled shafts
- 4.5mm x 3mm fine crossed hatched serrated jaws
- Internal faces of tip are cross hatched
- Cross action handle, length 112mm

## IOL Folding / Insertion / Loading

**2-700**

### Shepard IOL Forceps

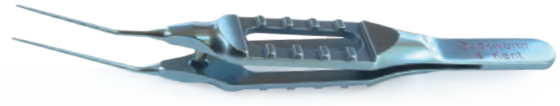


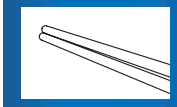



- Curved 1.5mm tips
- Cross action handle, length 112mm

**2-770N**

### Deitz ICL Loading Forceps



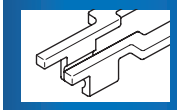


- Inside jaws textured, 4mm tip angle
- 20° angled shafts, tip to angle length 14mm
- Highly polished outer jaws
- Flat handle, length 83mm

Extra delicate, long jaws for inserting ICL into barrel of injector cartridge.

## 2-774-1

### DK IOL Folding Forceps

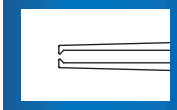



- Paddle style jaws
- Stops in handle design prevent "over folding"
- Flat handle, length 112mm

Conducive for upward folding. Highly polished inner jaw surfaces protect from scratching. Designed specifically for AcrySof IOL implant approved by Alcon.

## 2-789-1

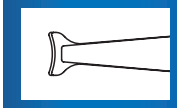
### Enclavation Forceps

- Smooth flat fronted teeth 0.12mm
- 45° curved shafts, tip to curve length 6mm
- O'Gawa round handle, length 119mm

## 2-789-2

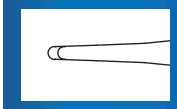
### Implantation Forceps

- Highly polished curved jaw, length 9mm
- Lower jaw tip width 2mm
- Upper jaw tip width 0.73mm
- Cross action handle, length 122mm

## 2-789-3

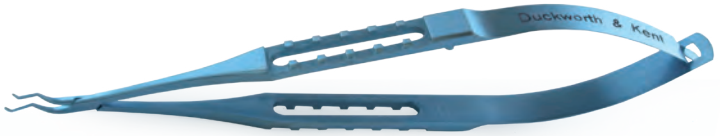
### Implantation Forceps

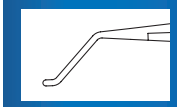



- Highly polished curved jaw, length 10mm
- Lower jaw offset 0.5mm in front of upper jaw
- Tip width 0.65mm
- Cross action handle, length 123mm

## 2-789-4

### Lens Positioning Forceps, Angled Left

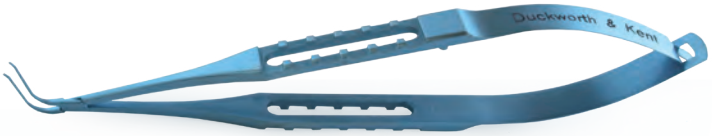


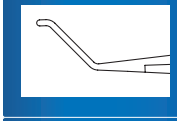



- Jaws curved up and angled left
- Tip to angle length 5.5mm
- Cross action handle, length 108mm

## 2-789-5

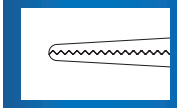
### Lens Positioning Forceps, Angled Right



- Jaws curved up and angled right
- Tip to angle length 5.5mm
- Cross action handle, length 108mm

## 2-796

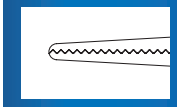


### DK IOL / Nucleus Removal Forceps, Serrated Tip


- 4mm serrated tips
- 30° angled shafts, tip to angle length 14mm
- Flat handle, length 91mm

For removal of IOL or manual removal of nucleus.

## 2-796N

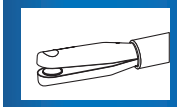


### DK IOL / Nucleus Removal Forceps, Serrated Tip


- 4mm serrated tips
- 30° angled shafts, tip to angle length 14mm
- Flat handle, length 86mm

For removal of IOL or manual removal of nucleus.

## 2-896

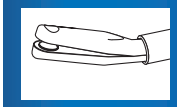


### Small Incision Manipulating Forceps


- Small raised disc on inner face of jaw with matting hole
- Squeeze action handle activates both jaws
- 20 gauge, 32.5mm long straight shaft
- Round squeeze handle, length 138mm

Suitable for ICL manipulation.

## 2-896-1

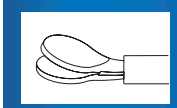


### Small Incision Manipulating Forceps, Angled Tips


- Small raised disc on inner face of jaw with matting hole
- Tips angled at 15°
- Squeeze action handle activates both jaws
- 20 gauge, 32.5mm long straight shaft
- Round squeeze handle, length 138mm

Suitable for ICL manipulation.

## 2-896-2



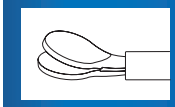
### Small Incision ICL Manipulating Forceps, Angled Flat Disc Tips


- Flat tip, 1.9mm wide disc with platform
- Tips angled at 10°
- Squeeze action handle activates both jaws
- 20 gauge, 32.5mm long straight shaft
- Round squeeze handle, length 139mm

Suitable for ICL manipulation.

## 2-896-3

### Small Incision ICL Manipulating Forceps, Angled Flat Disc Tips

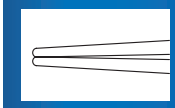


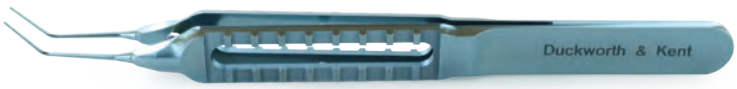

- Flat tip, 1.9mm wide disc with platform
- Upper disc coloured gold for orientation reference
- Tips angled at 15°
- Corresponding gold star on handle, relates to gold tip
- Squeeze action handle activates both jaws
- 20 gauge, 32.5mm long straight shaft
- Round squeeze handle, length 139mm

Suitable for ICL manipulation.

## DK7710

### DK IOL Forceps



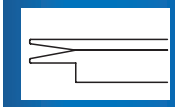



- 45° angled shafts, tip to angle length 7mm
- Highly polished inner jaw surfaces
- Flat handle, length 114mm

Highly polished inner jaw surfaces protect from scratching. Designed specifically for AcrySof IOL implant approved by Alcon.

## DK7717

### DK Lens Loading Forceps



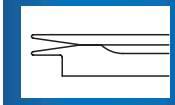
▶Video Available

- For loading AcrySof IOL into the MONARCH II and III cartridges
- Highly polished tips protect from scratching the lens surface
- 8mm diameter round handle, length 122mm

The DK7717 Lens Loading Forceps are used to the load the Alcon AcrySof IOL into the MONARCH II and III cartridges. To ensure a successful IOL delivery and implantation, proper loading of the IOL into the cartridge is essential.

## DK7726

### Lens Loading Forceps

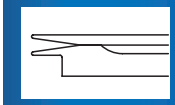


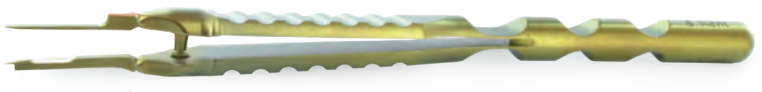
- For loading the TECNIS® 1-Piece IOL into the One Series™ Ultra Cartridge
- Polished tips protect from scratching the lens surface
- A stop ensures the IOL is not advanced beyond the recommended position in the cartridge
- 8mm diameter round handle, length 114mm

The DK7726 Lens Loading Forceps are used to load the AMO TECNIS® 1-Piece IOL into the AMO One Series Ultra Cartridge. To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential.

## DK7726-1

### Lens Loading Forceps

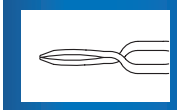




- For loading the TECNIS® 1-Piece IOL into the One Series™ Ultra Cartridge
- Polished tips protect from scratching the lens surface
- A stop ensures the IOL is not advanced beyond the recommended position in the cartridge
- Flat handle, length 114mm

The DK7726 Lens Loading Forceps are used to load the AMO TECNIS® 1-Piece IOL into the AMO One Series Ultra Cartridge. To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential.

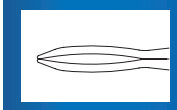
**DK7735**



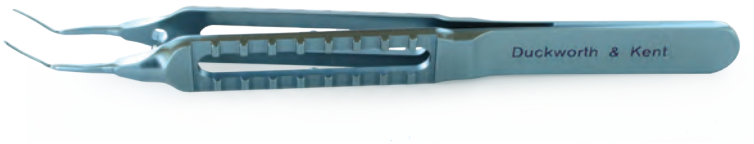
## Implantation Forceps


- 40° angled shafts, tip to angle length 16mm
- Highly polished inner jaw surfaces protect from scratching the lens surface
- Flat handle, length 112mm

**DK7740**



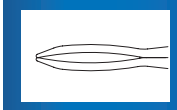
## DK IOL Insertion Forceps




- Highly polished inner jaw
- Biconvex jaw design
- 40° angled shafts, tip to angle length 7.5mm
- Flat handle, length 109mm

Highly polished inner jaw surface protect from scratching the lens surface. Designed specifically for AcrySof IOL implant approved by Alcon.

**DK7740-1**



## DK IOL Insertion Forceps

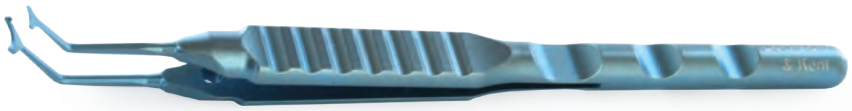

- Textured inner jaw surface
- Biconvex jaw design
- 40° angled shafts, tip to angle length 7.5mm
- Flat handle, length 109mm

# Telescope Lens

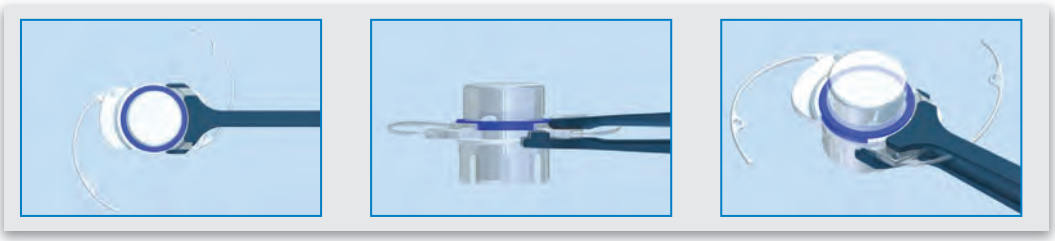
**2-754**

▶ Video Available


## IMT Forceps

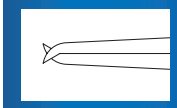


- Upper forceps tip is narrower than lower tip with teeth; allows for better visual control
- Used to stabilise and hold the telescope during implantation
- Safely and reliably handle the IMT, reducing the chance of dropping it intra-operatively
- Flat handle, length 116mm



## Muscle

**2-160**

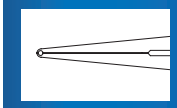


### Troutman Superior Rectus Forceps


- 0.5mm, 1 x 2 teeth
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 113mm

## Pierse, 0.25mm Notched

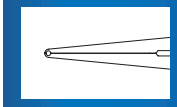
**2-100**



### Pierse Notched Forceps, 0.25mm Straight


- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- Flat handle, length 89mm

**2-100E**

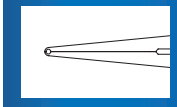


### Pierse Notched Forceps, 0.25mm Straight


- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- Flat handle, length 90mm
- Design registration number 004383396-0001

**2-100N** Alternative handle design also available. Visit www.duckworth-and-kent.com

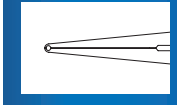
**2-100NR8**



### Pierse Notched Forceps, 0.25mm Straight

- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- 8mm diameter round handle, length 84mm

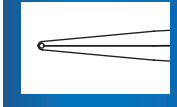
**2-100D**



### Pierse Notched Forceps - Dolphin Handle, 0.25mm


- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- Dolphin handle, length 95mm

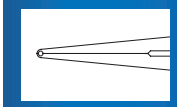
**2-100-2**



### Pierse Notched Forceps, 0.25mm Straight


- Pierse 0.25mm notched with no tying platform
- Straight shafts
- Flat handle, length 89mm

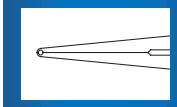
## 2-101



### Pierse Notched Forceps, 0.25mm Curved


- Pierse 0.25mm notched, 6mm tying platforms
- Curved shafts
- Flat handle, length 88mm

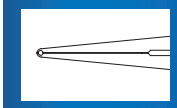
## 2-101D



### Pierse Notched Forceps, Dolphin Handle 0.25mm Curved


- Pierse 0.25mm notched, 6mm tying platforms
- Curved shafts
- Dolphin handle, length 94mm

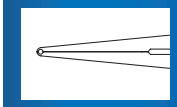
## 2-103



### Pierse Notched Forceps, 0.25mm Curved


- Pierse 0.25mm notched, 6mm tying platforms
- Curved shafts
- Flat handle, length 115mm

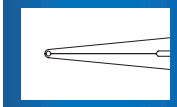
## 2-104



### Pierse Notched Forceps, 0.25mm Straight


- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

## 2-104E

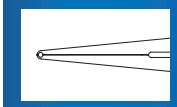


### Pierse Notched Forceps, 0.25mm Straight


- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- Flat handle, length 115mm
- Design registration number 004383396-0001

**2-104N** Alternative handle design also available. Visit www.duckworth-and-kent.com

## 2-130

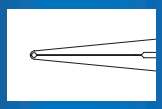


### Pierse Notched Colibri Forceps, 0.25mm


- Pierse 0.25mm notched, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 87mm

## 2-130N

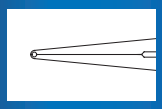
### Pierse Notched Colibri Forceps, 0.25mm

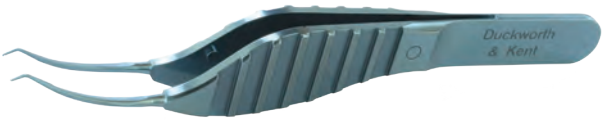



- Pierse 0.25mm notched, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm

## 2-130D

### Pierse Notched Colibri Forceps - Dolphin Handle, 0.25mm

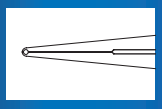


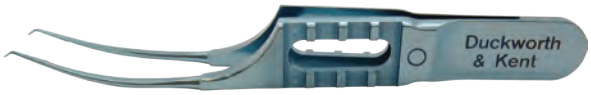



- Pierse 0.25mm notched, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Dolphin handle, length 94mm

## 2-200

### Pierse Notched Colibri Forceps, 0.25mm



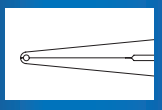



- Pierse 0.25mm notched, tip length 1.5mm
- 6mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm

## Pierse, 0.3mm Notched

## 2-100-1

### Pierse Notched Forceps, 0.3mm Straight

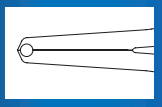


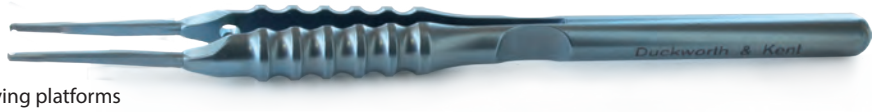

- Pierse 0.3mm notched, 6mm tying platforms
- Straight shafts
- Flat handle, length 88mm

## Pierse, 0.65mm Notched

## 2-401NR8

### Straight Notched Round Handle Forceps, 0.65mm

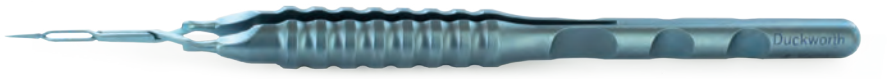





- Pierse 0.65mm notched, 6mm tying platforms
- Straight shafts
- 8mm diameter round handle
- Handle length 115mm

## 2-2-815

### Akahoshi Prechopper Forceps

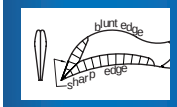


- Tips fully open to 2.5mm
- Smooth pointed tips
- 1.8mm maximum width at incision point
- Straight shafts, reverse cross action style
- 8mm diameter round handle, length 124mm

## 2-2-817

▶ Video Available

### Salvitti Akahoshi Micro Prechopper Forceps (small tip)

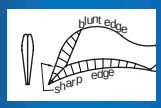



- Tips fully open to 2.5mm
- Flattened tips in vertical plane, tip height 1.3mm
- 1.8mm maximum width at incision point
- Straight shafts, reverse cross action style
- 8mm diameter round handle, length 123mm

Designed to crack nucleus into four segments with minimal stretching of incision. Forceps shafts open to a maximum of 1.8mm at incision point. Tips open to 2.5mm. Tip of instrument has a sharp point that initally penetrates nucleus; squeeze forceps, tips open to crack and split nucleus. By flipping forceps over, blunt edge may be used to go deeper in initial split to fully split nucleus. Using blunt edge of tip reduces risk of damaging posterior capsule.

## 2-2-817-1

### Salvitti Akahoshi Micro Prechopper Forceps (large tip)

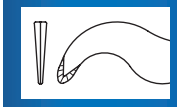



- Tips fully open to 2.5mm
- Flattened tips in vertical plane, tip height 1.5mm
- 1.8mm maximum width at incision point
- Straight shafts, reverse cross action style
- 8mm diameter round handle, length 123mm

## 2-2-818

▶ Video Available

### Inamura-Talon Prechopper Forceps

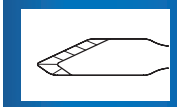


- Tips fully open to 2.5mm
- Flattened tips in vertical plane, tip height 1.6mm
- 1.8mm maximum width at incision point
- Straight shafts, reverse cross action style
- 8mm diameter round handle, length 123mm

## 2-2-819

▶ Video Available

### Masaoka Paddle Prechopper Forceps

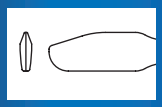


- Tips fully open to 2.5mm
- Arrow tip shape for penetrating nucleus
- Flattened paddle area of tips for nucleus splitting, tip height 1mm
- 1.8mm maximum width at incision point
- Straight shafts, reverse cross action style
- 8mm diameter round handle, length 123mm

Tip of instrument has pointed sharp front edges that initially penetrates nucleus; squeeze forceps, tips open to crack and split nucleus. The narrow paddle is easy to insert into a dense nucleus.

2-2-820

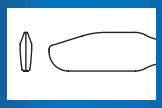
## Paddle Prechopper Forceps Angled 45°

- Tips fully open to 2.5mm
- Arrow tip shape for penetrating nucleus
- Flattened paddle area of tips for nucleus splitting, tip height 1mm
- 1.8mm maximum width at incision point
- 45° angled reverse cross action shaft, tip to angle length 13.5mm
- 8mm diameter round handle, length 119mm

2-2-820-1

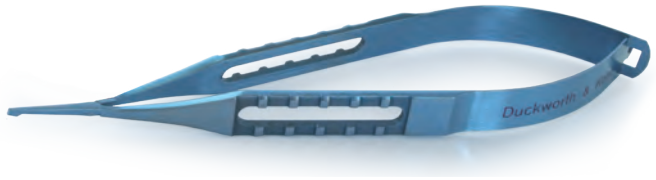
## Paddle Prechopper Forceps

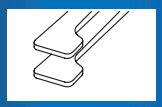


- Tips fully open to 2.5mm
- Arrow tip shape for penetrating nucleus
- Flattened paddle area of tips for nucleus splitting, tip height 1mm
- 1.8mm maximum width at incision point
- Straight shafts, reverse cross action style
- 8mm diameter round handle, length 123mm

2-800

## Brown Nucleus Cracker



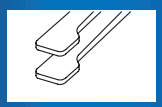



- 1.5mm x 1.2mm paddle style tips
- Straight shafts
- Flat cross action handle, length 98mm

Cracking with minimal loss of viscoelastic and maintains anterior chamber depth. Design that keeps cross point of instrument in wound, reducing outflow of viscoelastic.

2-802

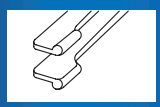
## Brown Nucleus Cracker

- 1.1mm x 1.2mm paddle style tips
- 30° angled shafts, tip to angle length 14.5mm
- Flat cross action handle, length 99mm

2-803

## Denman Brown Nucleus Cracker

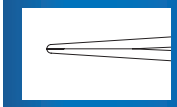
- 1.1mm x 1.2mm paddle style tips
- Bulge along lower edge of paddle
- 30° angled shafts, tip to angle length 14.5mm
- Thin shaft design
- Flat cross action handle, length 99mm

Bulge along lower edge of tip reduces risk of paddle slipping out of the nucleus when splitting.

## Plain Tip / Jewellers

**2-900**

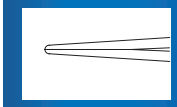
### DK Plain Tip Forceps, Straight




- Plain tips without tying platforms
- Straight shafts
- Flat handle, length 89mm

**2-901**

### DK Plain Tip Forceps, Curved

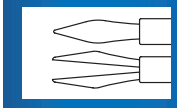



- Curved plain tips without tying platforms
- Curved shafts
- Flat handle, length 88mm

## Retinal

**2-868**

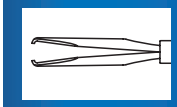
### Squeeze Handle Smooth Rounded Tips Forceps 20 Gauge



- 2mm smooth rounded tips
- Straight 20 gauge tube, tube length 32.5mm
- Squeeze action activates both jaws
- Round squeeze handle, overall length 138mm

**2-871**

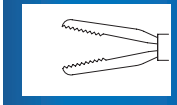
### Squeeze Handle End Gripping Forceps 20 Gauge



- Fine end gripping tips, tip length 3.7mm
- Straight 20 gauge tube, tube length 32.5mm
- Squeeze handle activates both jaws
- Round squeeze handle, overall length 141mm

**2-878**

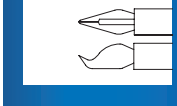
### Squeeze Handle Delicate Serrated Forceps 20 Gauge



- Delicate serrated jaws with blunt tip, tip length 3mm
- Straight 20 gauge tube, tube length 32.5mm
- Squeeze handle activates both jaws
- Round squeeze handle, overall length 139mm

**2-885**

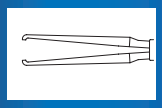
### Squeeze Handle Rassam Membrane Picking Forceps 20 Gauge



- 2.mm jaws, 0.7mm platforms, 55° angled pointed picking tips
- Straight 20 gauge tube, tube length 32.5mm
- Squeeze action activates both jaws
- Round squeeze handle, overall length 138mm

## 2-877

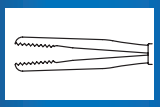
### Squeeze Handle End Gripping Forceps 23 Gauge



- Fine end gripping tips, tip length 3mm
- Straight 23 gauge tube, tube length 32.5mm
- Squeeze handle activates both jaws
- Round squeeze handle, overall length 140mm

## 2-878-1

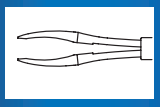
### Squeeze Handle Delicate Serrated Forceps 23 Gauge



- Delicate serrated jaws with blunt tip, tip length 3mm
- Straight 23 gauge tube, tube length 32.5mm
- Squeeze handle activates both jaws
- Round squeeze handle, overall length 139mm

## 2-879

### Squeeze Handle Asymmetrical Forceps 23 Gauge



- Asymmetrical tip design with fine platform
- Straight 23 gauge tube, tube length 32.5mm
- Squeeze handle activates both jaws
- Round squeeze handle, overall length 138mm

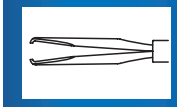
## 2-868N

### Smooth Rounded Tips Forceps Head 20 Gauge

- 2mm smooth rounded tips
- Straight 20 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 140mm

## 2-871N

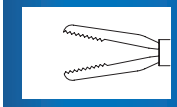
### End Gripping Forceps Head 20 Gauge



- 3.7mm smooth rounded tips
- Straight 20 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 142mm

## 2-878N

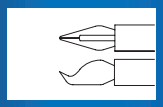
### Delicate Serrated Forceps Head 20 Gauge



- Delicate serrated jaws with blunt tip, tip length 3mm
- Straight 20 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 141mm

## 2-885N

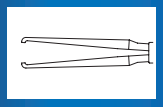
### Rassam Membrane Picking Forceps Head 20 Gauge



- 2mm jaws, 0.7mm platforms, 55° angled pointed picking tip
- Straight 20 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 140mm

## 2-877N

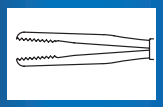
### End Gripping Forceps Head 23 Gauge



- Fine end gripping tips, tip length 3mm
- Straight 23 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 142mm

## 2-878-1N

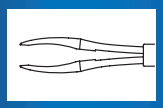
### Delicate Serrated Forceps Head 23 Gauge



- Delicate serrated jaws with blunt tip, tip length 3.5mm
- Straight 23 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 142mm

## 2-879N

### Asymmetrical Forceps Head 23 Gauge



- 2mm jaws, 0.7mm platforms, 55° angled pointed picking tip
- Straight 23 gauge tube, length 31mm
- Requires DK Squeeze Handle, ref 6-676
- Detachable tip heads for cleaning purposes
- Colour coding for tip and gauge size identification
- Once attached to round squeeze handle, length is 140mm

All Interchangeable Vitreoretinal (VR) Heads are sold separate from the handle. The VR Heads require a handle for operation. ONLY the DK Squeeze Handle for VR Instrument Heads, ref 6-676, is suitable. All VR Heads come fitted with a plastic (PEEK) re-usable Protective Cover, that can withstand cleaning and reprocessing cycles. The VR Heads are screwed onto the thread of DK Squeeze Handle for VR Instrument Heads. It is recommended, for device protection, to keep the plastic (PEEK) re-usable protective cover fitted until the instrument is required for use.

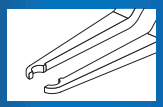
## 6-676

### Squeeze Handle for Vitreoretinal Instrument Heads


- Suitable for all Duckworth & Kent Vitreoretinal Instrument Heads
- Overall Length 92 mm (without head)
- Squeeze action handle

## 2-2-832

### Cannula Loading Forceps

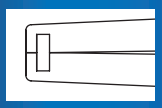



- Designed to hold 23 and 25 gauge cannulas
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 111mm

## Scleral Pin Holding

**2-831**

### DK Scleral Pin Holding Forceps

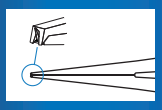



- Purpose designed tip to fixate DK Scleral Pins (8-050)
- 30° angled tip, tip to angle length 7mm
- Flat handle, length 115mm

## Toothed, 0.1mm

**2-110-1**

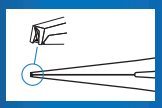
### DK Bonn Straight Suturing Forceps, 0.10mm

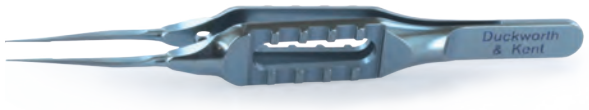



- 0.10mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 89mm

**2-110-1N**

### Straight Suturing Forceps, 0.10mm



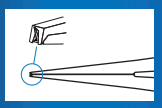



- 0.10mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 84mm

## Toothed, 0.12mm

**2-110**

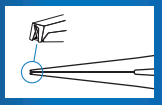
### DK Bonn Straight Suturing Forceps, 0.12mm




- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 89mm

**2-110E**

### Bonn Suturing Forceps, 0.12mm

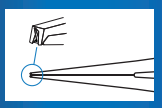


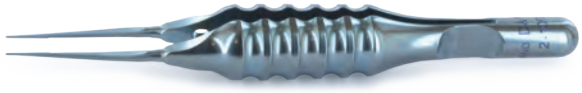
- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 90mm
- Design registration number 004383396-0001

**2-110N** Alternative handle design also available. Visit www.duckworth-and-kent.com

**2-110NR**

### Straight Suturing Forceps, 0.12mm

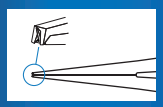


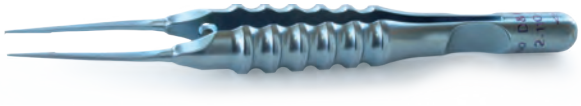


- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- 10mm diameter round handle, length 84mm

**2-110NR8**

## Straight Suturing Forceps, 0.12mm

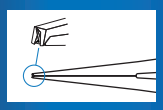




- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- 8mm diameter round handle, length 84mm

**2-110D**

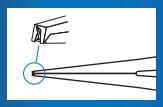
## Toothed Forceps - Dolphin Handle 0.12mm




- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Dolphin handle, length 95mm

**2-2-110**

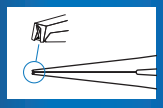
## DK Straight Suturing Forceps, 0.12mm




- 0.12mm, 1x2 teeth
- 6mm tying platforms
- Tip width 0.3mm
- Straight shafts
- Coloured gold
- Flat handle, length 118mm

**2-111**

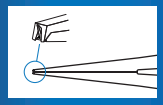
## DK Bonn Curved Suturing Forceps, 0.12mm

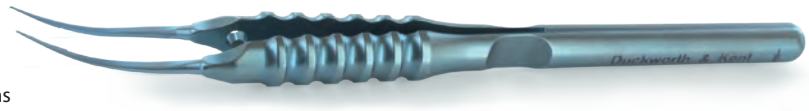



- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Curved shafts
- Flat handle, length 88mm

**2-113NR8**

## Curved Suturing Forceps, 0.12mm

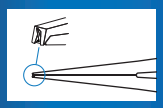




- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Curved shafts
- 8mm diameter round handle, length 114mm

**2-114**

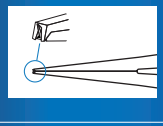
## Castroviejo Straight Suturing Forceps, 0.12mm




- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat long handle, length 116mm

**2-114E**

## Castroviejo  Suturing Forceps, 0.12mm

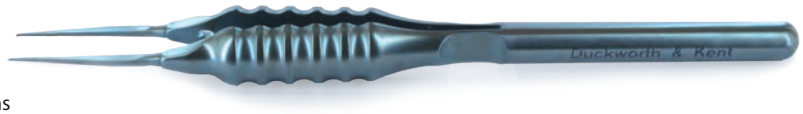


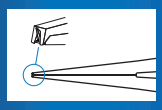
- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 115mm
- Design registration number 004383396-0001

**2-114N** Alternative handle design also available. Visit www.duckworth-and-kent.com

**2-114NR**

## Straight Suturing Forceps, 0.12mm

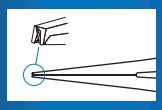


- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- 10mm diameter round handle, length 115mm

**2-114NR8**

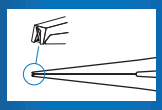
## Straight Suturing Forceps, 0.12mm

- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- 8mm diameter long round handle, length 115mm

**2-114-1**

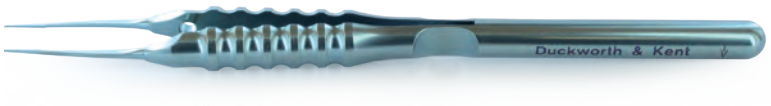
## Osher-Castroviejo Straight Suturing Forceps, 0.12mm

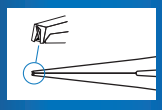



- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Flat face on toothed tip
- Straight shafts
- Flat handle, length 116mm

**2-114-5NR8**

## Ogawa Straight Suturing Forceps, 0.12mm

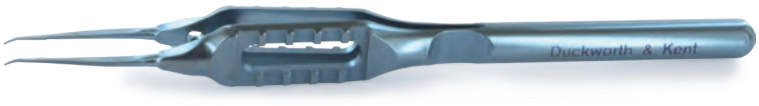


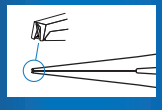



- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Stronger straight shafts
- 8mm diameter long round handle, length 115mm

**2-115N**

## Straight Toothed Forceps, 0.12mm



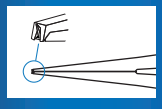



- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- 23° angled shaft 2mm back from tip
- Flat handle, length 115mm

Slightly angled tips provide easy visualisation at point of grasping.

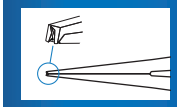
**2-132**

## DK Troutman-Barraquer Colibri Forceps, 0.12mm

- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 88mm

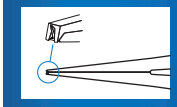
**2-132N**



## Colibri Toothed Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm

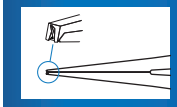
**2-132D**



## Toothed Colibri Forceps - Dolphin Handle 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Dolphin handle, length 94mm

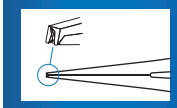
**2-132-3N**



## Colibri Toothed Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 1mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm

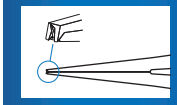
**2-135**



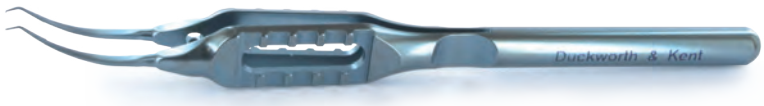
## DK Colibri Toothed Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 115mm

**2-135N**

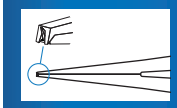


## Colibri Toothed Forceps, 0.12mm




- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 114mm

**2-135NR**

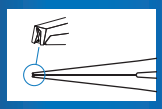


## Colibri Toothed Forceps, 0.12mm


- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- 10mm diameter round handle, length 114mm

## 2-135NR8

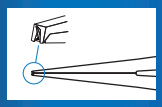
### Colibri Toothed Forceps, 0.12mm



- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- 8mm diameter round handle, length 114mm

## 2-135-1NR8

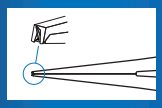
### Ogawa-Colibri Toothed Forceps, 0.12mm



- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Stronger shafts
- Colibri style shafts
- 8mm diameter round handle, length 114mm

## 2-144

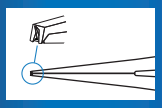
### Kelman-McPherson Angled Suturing Forceps, 0.12mm




- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 86mm

## 2-214

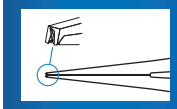
### DK Troutman-Barraquer Colibri Forceps, 0.12mm



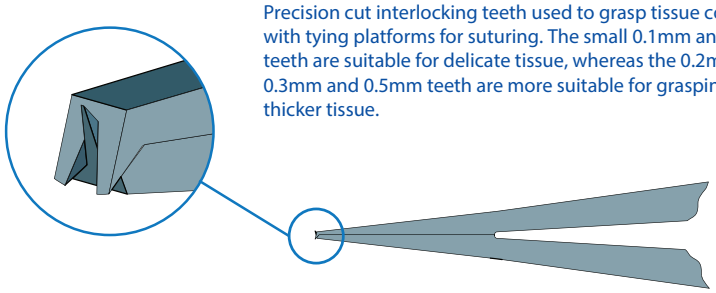

- 0.12mm, 1 x 2 teeth, tip length 1.5mm
- 4.5mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm

## 2-215

### DK Troutman-Barraquer Colibri Forceps, 0.12mm



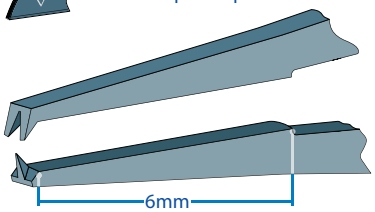

- 0.12mm, 1 x 2 teeth, tip length 0.8mm
- 4.5mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm



Precision cut interlocking teeth used to grasp tissue combined with tying platforms for suturing. The small 0.1mm and 0.12 teeth are suitable for delicate tissue, whereas the 0.2mm, 0.3mm and 0.5mm teeth are more suitable for grasping thicker tissue.

Toothed sizes available : 0.1mm, 0.12mm, 0.2mm
0.3mm, 0.5mm

Engraved symbol to identify all toothed tip forceps

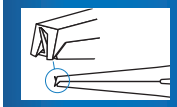



All toothed tip instruments feature a 6mm long tying platform, unless otherwise stated.

## Toothed, 0.2mm

**2-110-2**

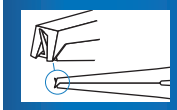
### DK Bonn Straight Suturing Forceps, 0.2mm



- 0.2mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 89mm


**2-132-2N**

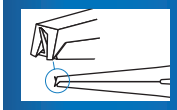
### Colibri Toothed Forceps, 0.2mm



- 0.2mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Flat handle, length 83mm


**2-214-2**

### DK Troutman-Barraquer Colibri Forceps, 0.2mm

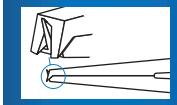


- 0.2mm, 1 x 2 teeth, tip length 1.5mm
- 6mm tying platforms
- Colibri style shafts
- Micro flat handle, length 77mm


## Toothed, 0.3mm

**2-116**

### Castroviejo Straight Suturing Forceps, 0.3mm

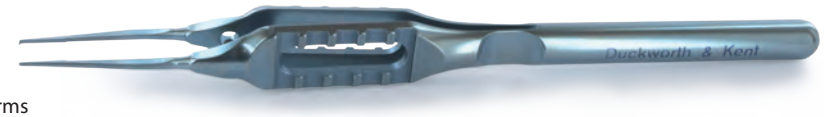


- 0.3mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm


**2-116N**

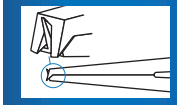
### Straight Suturing Forceps, 0.3mm

- 0.3mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 115mm




**2-118**

### DK Bonn Suturing Forceps, 0.3mm

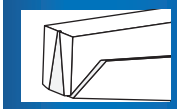


- 0.3mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 89mm

## Toothed, 0.5mm

**2-108**

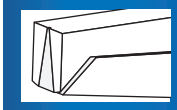
### Rabkin Blepharoplasty Tissue Forceps, 0.5mm

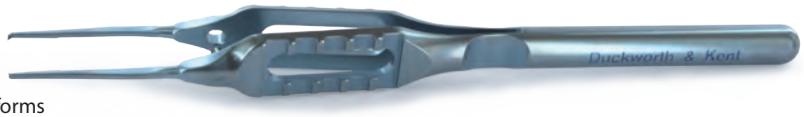



- 0.5mm, 1 x 2 flat teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

**2-108N**

### Straight Toothed Forceps, 0.5mm






- 0.5mm, 1 x 2 flat teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

**2-117**

### Castroviejo Straight Suturing Forceps, 0.5mm


- 0.5mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

**2-160**

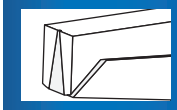
### Troutman Angled Superior Rectus Forceps, 0.5mm


- 0.5mm, 1 x 2 teeth
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 113mm

## Oculoplastics

**2-108**

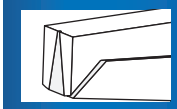
### Rabkin Blepharoplasty Straight Tissue Forceps, 0.5mm

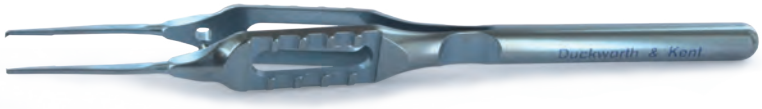



- 0.5mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

**2-108N**

### Straight Toothed Forceps, 0.5mm

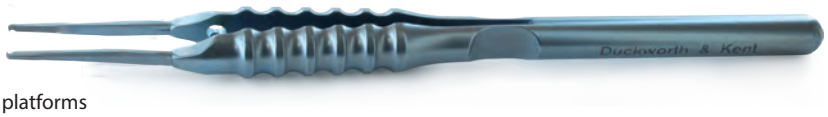


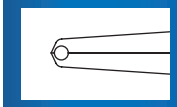



- 0.5mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

**2-401NR8**

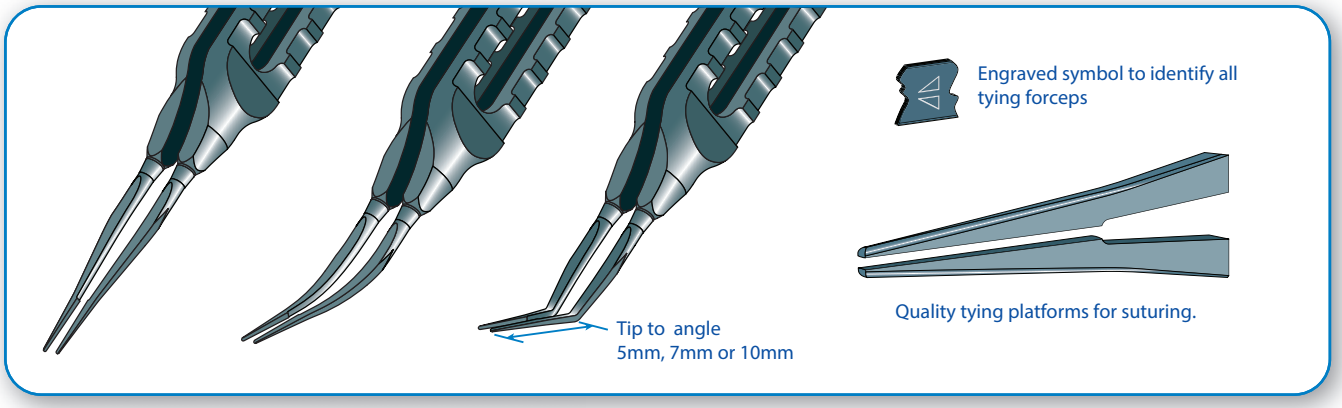
## Straight Notched Round Handle Forceps, 0.65mm





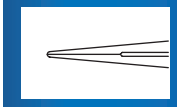
- Pierse 0.65mm notched, 6mm tying platforms
- Straight shafts
- 8mm diameter round handle, length 115mm

# Tying Angled




**2-520**

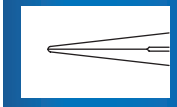
## DK Kelman-McPherson Angled Tying Forceps, 5mm tip to angle

- 4mm tying platforms
- 45° angled shafts, tip to angle length 5mm
- Flat handle, length 85mm

**2-522**

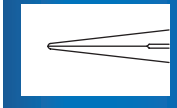
## DK Kelman-McPherson Angled Tying Forceps, 7mm tip to angle

- 6mm tying platforms
- 45° angled shafts, tip to angle length 7mm
- Flat handle, length 87mm

**2-522E**

## Kelman-McPherson Tying Forceps, 7mm tip to angle

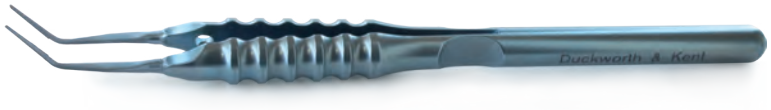


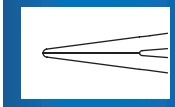
- 6mm tying platforms
- 45° angled shafts, tip to angle length 7mm
- Flat handle, length 90mm
- Design registration number 004383396-0001

**2-522N** Alternative handle design also available. Visit www.duckworth-and-kent.com

**2-523NR8**

## Angled Tying Forceps, 10mm tip to angle



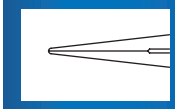



- Plain tips with 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- 8mm diameter round handle, length 112mm

- Fine enough for tying 10-0 sutures, yet platforms are broad enough to minimise damage to sutures from compression.
- Robust enough to grasp fine needle tips to help pull the needle out through ocular tissues.
- Works well for handling devices and implants such as iris/capsule retractors, CTRs, PMMA IOLs.

**2-524**

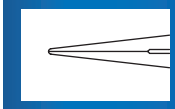
## DK Kelman-McPherson Tying Forceps, 10mm tip to angle

- 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 85mm

**2-524D**

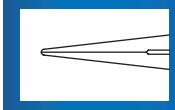
## Angled Tying Forceps - Dolphin Handle

- 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- Dolphin handle, length 92mm

**2-524N**

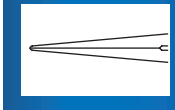
## Angled Tying Forceps, 10mm tip to angle

- 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 81mm

**2-524-1**

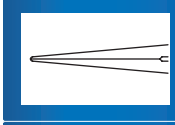
## DK Kelman-McPherson Angled Tying Forceps, 10.5mm tip to angle

- 9.5mm tying platforms
- 45° angled shafts, tip to angle length 10.5mm
- Flat handle, length 86mm

**2-524-1N**

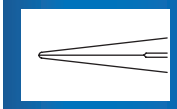
## Angled Tying Forceps, 10.5mm tip to angle

- 9.5mm tying platforms
- 45° angled shafts, tip to angle length 10.5mm
- Flat handle, length 81mm

**2-526**

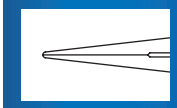
## DK Kelman-McPherson-Sheets Angled Tying Forceps, 12mm tip to angle

- 6mm tying platforms
- 45° angled shafts, tip to angle length 12mm
- Flat handle, length 85mm

**2-527E**

## Kelman-McPherson Angled Tying Forceps, 7mm tip to angle

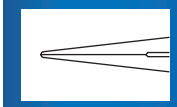



- 6mm tying platforms
- 45° angled shafts, tip to angle length 7mm
- Flat handle, length 115mm
- Design registration number 004383396-0001

**2-527N** Alternative handle design also available. Visit www.duckworth-and-kent.com

**2-529**

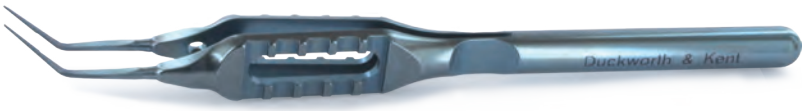
## DK Kelman-McPherson Angled Tying Forceps, 10mm tip to angle

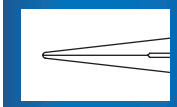



- 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 112mm

**2-529N**

## Angled Tying Forceps, 10mm tip to angle

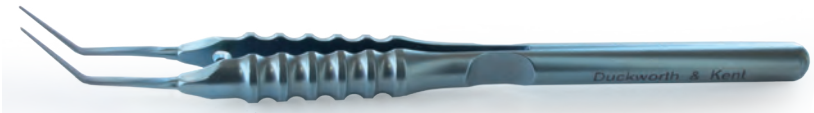


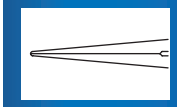



- 6mm tying platforms
- 45° angled shafts, tip to angle length 10mm
- Flat handle, length 112mm

**2-529-1NR8**

## Angled Tying Forceps, 10.5mm tip to angle



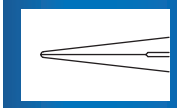



- 9.5mm tying platforms
- 45° angled shafts, tip to angle length 10.5mm
- 8mm diameter long round handle, length 112mm

# Tying, Curved

**2-501**

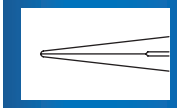
## DK Curved Tying Forceps

- 6mm tying platforms
- Curved shafts
- Flat handle, length 88mm

**2-501N**

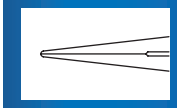
## Curved Tying Forceps

- 6mm tying platforms
- Curved shafts
- Flat handle, length 83mm

**2-505**

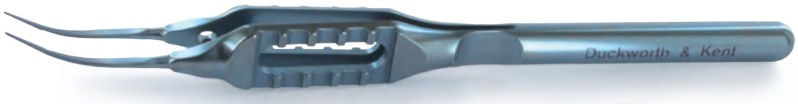
## DK Harms-Tubingen Curved Tying Forceps

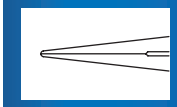



- 6mm tying platforms
- Curved shafts
- Flat handle, length 115mm

**2-505N**

## Curved Tying Forceps

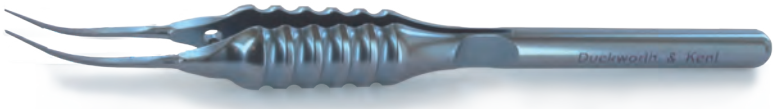


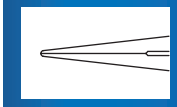



- 6mm tying platforms
- Curved shafts
- Flat handle, length 114mm

**2-505NR**

## Curved Tying Forceps

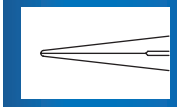


- 6mm tying platforms
- Curved shafts
- 10mm diameter round handle, length 114mm

**2-505NR8**

## Curved Tying Forceps

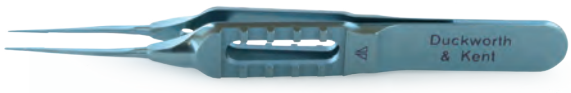



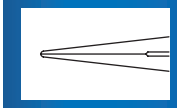
- 6mm tying platforms
- Curved shafts
- 8mm diameter round handle, length 114mm

# Tying, Straight

**2-500**

## DK McPherson Straight Tying Forceps



- 6mm tying platforms
- Straight shafts
- Flat handle, length 89mm

**2-500E**

## McPherson Tying Forceps

- 6mm tying platforms
- Straight shafts
- Flat handle, length 90mm
- Design registration number 004383396-0001

**2-500N** Alternative handle design also available. Visit www.duckworth-and-kent.com

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**2-500-1**

## DK McPherson Straight Tying Forceps


- 6mm tying platforms
- Heavier tip, 0.6mm
- Straight shafts
- Flat handle, length 89mm

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**2-500-2**

## DK McPherson Straight Tying Forceps


- 6mm tying platforms
- Delicate tip, 0.2mm
- Straight shafts
- Flat handle, length 89mm

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**2-504**

## DK Harms-Tubingen Straight Tying Forceps


- 6mm tying platforms
- Straight shafts
- Flat handle, length 116mm

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**2-504E**

## Harms-Tubingen Tying Forceps

- 6mm tying platforms
- Straight shafts
- Flat handle, length 115mm
- Design registration number 004383396-0001

**2-504N** Alternative handle design also available. Visit www.duckworth-and-kent.com

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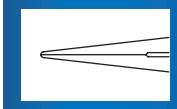
**2-504NR**

## Straight Tying Forceps


- 6mm tying platforms
- Straight shafts
- 10mm diameter round handle, length 115mm

**2-504ER8**

## Straight Tying Round Handle Forceps

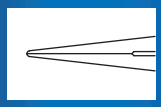


- 6mm tying platforms
- Straight shafts
- Round handle, length 115mm
- Design registration number 004383396-0001

**2-504NR8** Alternative handle design also available. Visit www.duckworth-and-kent.com

**2-504-1NR8**

## Straight Tying Forceps



- 6mm tying platforms
- Straight shafts
- 8mm diameter round handle, length 115mm

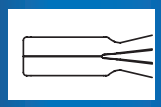
- Fine enough for tying 10-0 sutures, yet platforms are broad enough to minimise damage to sutures from compression.
- Broader platform works well for safely rotating sutures to bury the suture knot.
- Well matched for use with the Ogawa Angled Tying Forceps (ref: 2-523NR8) when tying multiple sutures that have been previously placed.

# Laser Protection

**2-660**

▶ Video Available

## Miyata Laser Protection Forceps

- Tip width 1.5mm, closed tip width 3mm
- Curved shafts 45° angled, tip length 7mm
- Flat handle, length 113mm

Designed to be used to hold the conjunctiva of the eye during laser surgery. The wide tips also protect the areas of the eye not being treated by the laser.

Used in conjunction with the Miyata Laser Eye Shields ref: 6-667-7 and 6-667-8.

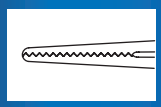
# ReLEx® SMILE

**2-835**
**2-835N**

## NeoVize SMILE Forceps

## NeoVize SMILE Forceps



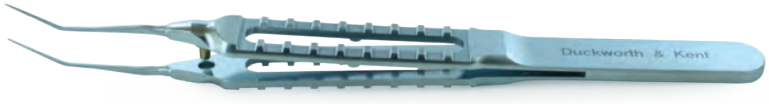


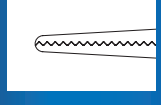
- 4mm long serrated jaws
- Tip to angle length 9mm, angled 30°
- Flat handle, overall length 92mm (2-835)
- Flat handle, overall length 87mm (2-835N)

Designed to grasp the lenticule and remove it from the corneal pocket.

**2-836**

## SMILE Lenticule Removal Forceps

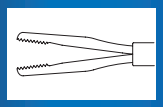


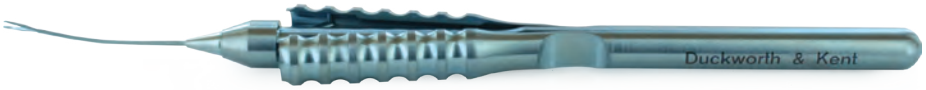



- 4mm long serrated jaws
- 30° angled shafts
- Flat long handle, length 119mm

2-837

## SMILE Lenticule Removal Forceps, 23 Gauge



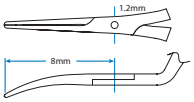



- Delicate serrated jaws with blunt tip, tip length 3mm
- Curved 23 gauge tube
- Squeeze handle activates both jaws
- Round squeeze handle, length 127mm

2-839

Video Available

## Chan SMILE Dissecting Forceps



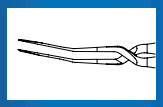


- Curved shaft, tip to pivot point 8mm
- Cross action tips, 1.2mm width at pivot box
- Round handle, overall length 107mm

# KAMRA™ Corneal Inlay

2-920

## KAMRA™ Corneal Inlay Insertion Forceps




- Two oval flat shaped tips, width 2.6mm, length 4mm
- Tip to bend 9mm, angled 10°
- Flat handle, length 92mm

The KAMRA™ Corneal Inlay Insertion Forceps are intended to be used to hold the KAMRA™ cornea inlay and insert it through a surgical incision into a lamellar pocket in the cornea.

Go to page 108 to view our KAMRA™ Inlay Manipulator - 6-820

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REUSABLE TITANIUM INSTRUMENTS

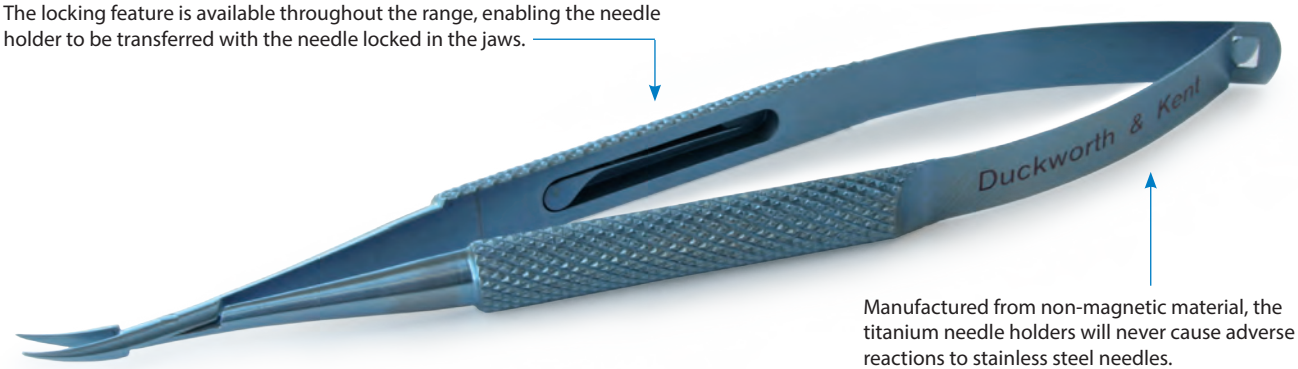
MANUFACTURED IN ENGLAND

# Needle Holders

Jaw Length 7mm
Jaw Length 9mm
Jaw Length 12mm
Miscellaneous

# Needle Holders

The locking feature is available throughout the range, enabling the needle holder to be transferred with the needle locked in the jaws.




Manufactured from non-magnetic material, the titanium needle holders will never cause adverse reactions to stainless steel needles.

Precision made fine delicate jaws are suitable for the fine sutures used in ophthalmic surgery today.

## Jaw Length 7mm

**3-205**

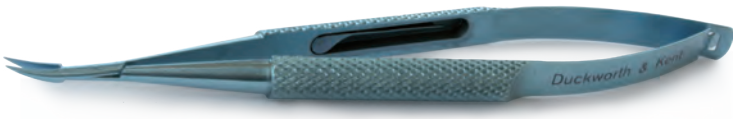
### DK Needle Holder, Curved

- 7mm delicate curved jaws
- Round handle, tag spring
- Length 108mm

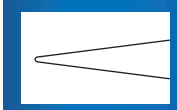

**3-206**

### DK Needle Holder, Curved with lock

- 7mm delicate curved jaws
- Round handle with lock, tag spring
- Length 108mm



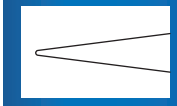

**3-207**



### DK Needle Holder, Straight

- 7mm delicate straight jaws
- Round handle, tag spring
- Length 108mm

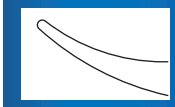

**3-208**



### DK Needle Holder, Straight with lock

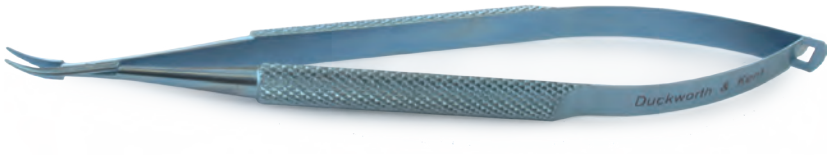
- 7mm delicate straight jaws
- Round handle with lock, tag spring
- Length 108mm

**3-218**



## Ogawa Needle Holder, Curved

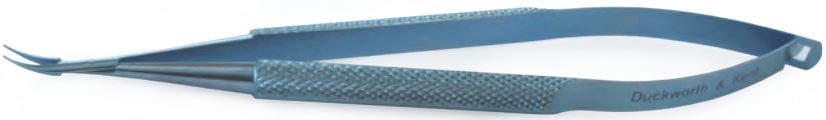
- 7mm delicate curved jaws
- Ogawa round handle, tag spring
- Length 125mm



**3-218-1**

## Ogawa Needle Holder, Curved

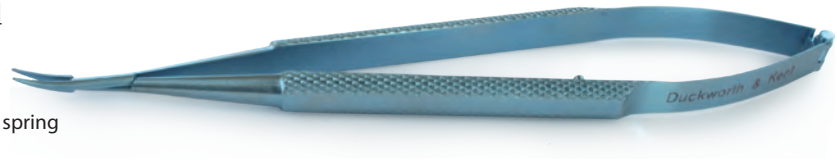
- 7mm extra-delicate curved jaws
- Ogawa round handle, tag spring
- Length 125mm



**3-420**

## Nordan Needle Holder, Curved

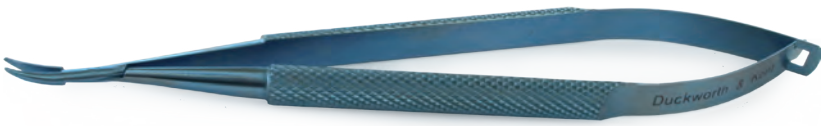
- 7mm delicate curved jaws
- Nordan round handle with flats, hinge spring
- Length 120mm



**3-422**

## DK Needle Holder, Curved

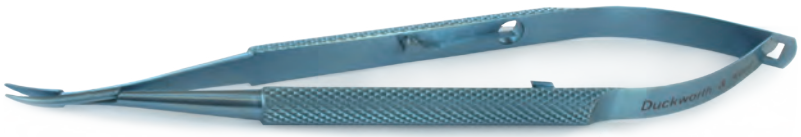
- 7mm delicate curved jaws
- Round handle, tag spring
- Length 122mm



**3-423**

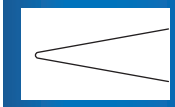
## DK Needle Holder, Curved with lock

- 7mm delicate curved jaws
- Round handle with lock, tag spring
- Length 122mm



# Jaw Length 9mm

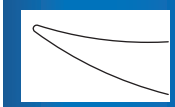
**3-201**



## DK Needle Holder, Straight

- 9mm medium straight jaws
- Round handle, tag spring
- Length 110mm

**3-202**



## DK Needle Holder, Curved with lock

- 9mm medium curved jaws
- Round handle with lock, tag spring
- Length 110mm

**33-202**

## DK Needle Holder, Curved with lock

- 9mm medium curved jaws
- Round handle with lock, tag spring
- Length 137mm

**3-203**

## DK Needle Holder, Curved

- 9mm medium curved jaws
- Round handle, tag spring
- Length 110mm


**3-203NR8**

## Needle Holder, Curved

- 8.5mm medium curved jaws
- 8mm diameter handle, length 117mm


**33-203**

## DK Needle Holder, Curved

- 9mm medium curved jaws
- Round handle, tag spring
- Length 137mm

**3-222**

## DK Needle Holder, Curved with lock

- 9mm medium curved jaws, blunt tip
- Round handle with lock, tag spring
- Length 110mm

**33-222**

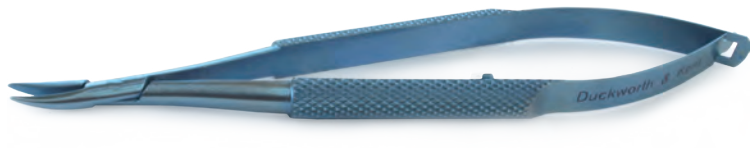
## DK Needle Holder, Curved with lock

- 9mm medium curved jaws, blunt tip
- Round long handle with lock, tag spring
- Length 137mm

**3-223**

## DK Needle Holder, Curved

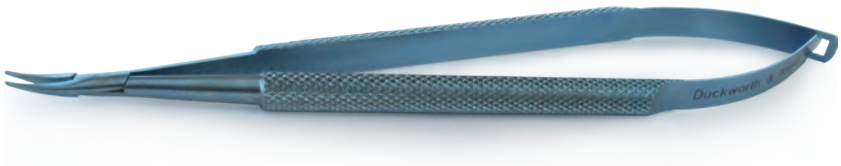
- 9mm medium curved jaws, blunt tip
- Round handle, tag spring
- Length 110mm



**33-223**

## DK Needle Holder, Curved

- 9mm medium curved jaws, blunt tip
- Round long handle with tag spring
- Length 137mm



**3-302**

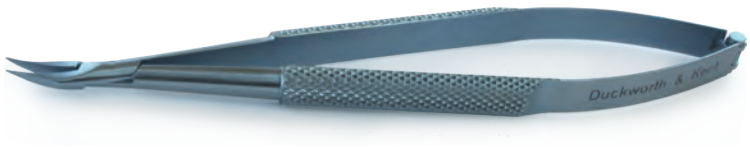
## DK Barraquer Needle Holder, Curved with lock

- 9mm delicate curved jaws
- Round handle with lock, hinge spring
- Length 109mm

**3-303**

## DK Barraquer Needle Holder, Curved

- 9mm delicate curved jaws
- Round handle, hinge spring
- Length 109mm



**33-303**

## DK Barraquer Needle Holder, Curved

- 9mm delicate curved jaws
- Round long handle, hinge spring
- Length 136mm

# Jaw Length 12mm

**33-225**

## DK Needle Holder, Curved

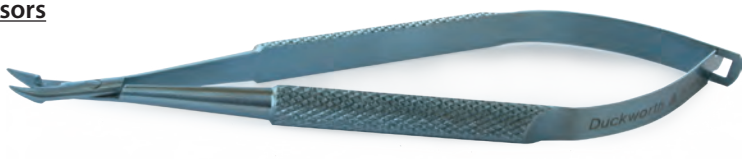
- 12mm heavy curved jaws
- Round long handle, tag spring
- Length 140mm

# Miscellaneous

**3-203-1**

## DK Round Handle Needle Holder / Scissors

- 7mm curved jaw, inside cutting edge
- Cutting blade 3mm long
- Round handle, length 108mm



Designed for large sutures with an inbuilt edge at proximal end of jaw to allow surgeon to cut suture without changing instruments.

REUSABLE TITANIUM INSTRUMENTS

MANUFACTURED IN ENGLAND

# Diamond Knives

Straight Retractable
Angled Retractable
Position Handle
Micrometer
LRI

# Handle Styles

Many blade and handle configurations are available and not all may be listed. Any special requests please contact Duckworth & Kent directly or contact your local Duckworth & Kent distributor.

## Straight Retractable

- Straight handle with single position fully exposing the diamond
- Thin body allows for easy freehand work

## Angled Retractable

- Angled mounting of the blade makes it easier to guide the cutting edge through the cornea

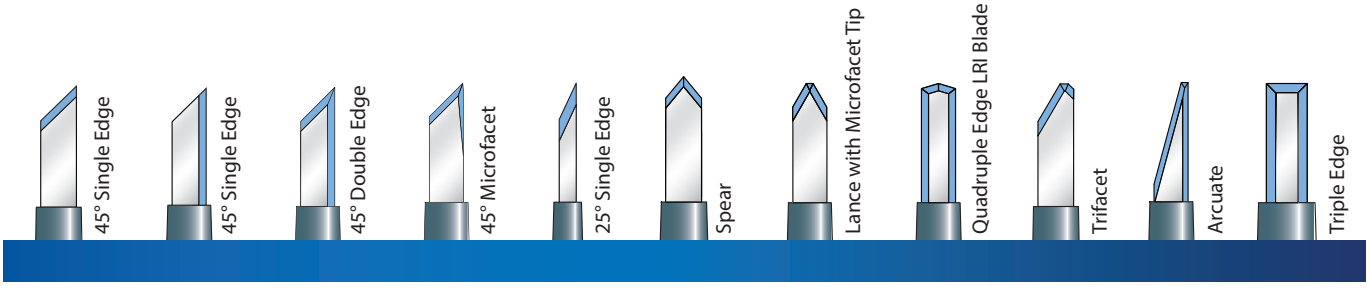
## Position Retractable

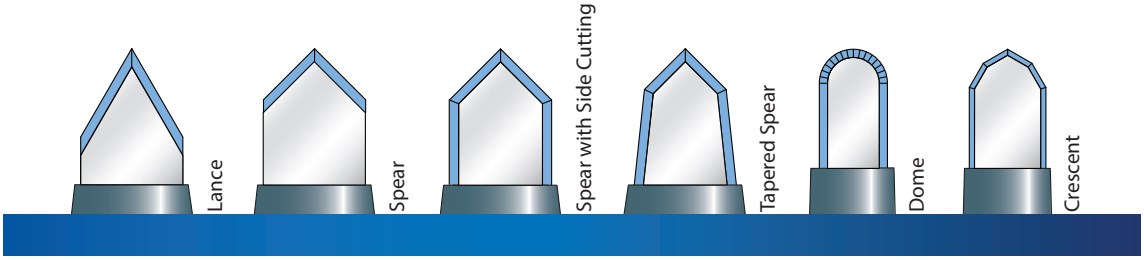
- Up to 7 fixed blade depths are set and can be selected by turning the handle

## Micrometer Retractable

# Blade Configurations

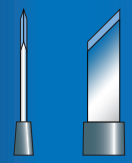
## Blue signifies cutting edge



## Straight Retractable

**4-100**

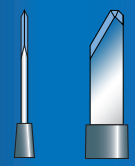


### DK Retractable Diamond Knife,1mm 45° Single Edge

Width 1mm
length 3.5mm
Thickness 0.2mm

- 1mm wide 45° single edge diamond blade
- Retractable long handle, length 124mm

**4-115**

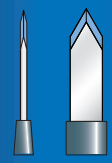


### DK Retractable Diamond Knife, 1mm Trifacet

Width 1mm
Length 3.5mm
Thickness 0.2mm

- 1mm wide trifacet diamond blade
- Retractable long handle, length 124mm

**4-122**

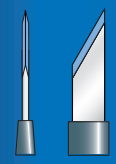


### DK Retractable Diamond Knife, 1mm Lance

Width 1mm
Length 3.5mm
Thickness 0.2mm

- 1mm wide lance diamond blade
- Retractable long handle, length 124mm

**4-125**

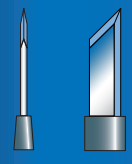


### DK Retractable Diamond Knife, 1mm 30° Single Edge

Width 1mm
Length 3.5mm
Thickness 0.2mm

- 1mm wide 30° single edge diamond blade
- Retractable long handle, length 124mm

**4-590**

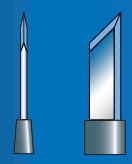


### DK Retractable Diamond Knife, 1mm 45° Double Edge

Width 1mm
Length 3.5mm
Thickness 0.2mm

- 1mm wide 45° double edge diamond blade
- Retractable long handle, length 124mm

**4-600**

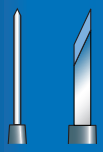


### Pearce Retractable Diamond Knife, 1mm 45° Double Edge

Width 1mm
Length 3.5mm
Thickness 0.2mm

- 1mm wide 45° double edge diamond blade
- Second position 10mm shaft extension
- Retractable long handle, length 124mm

## 4-610



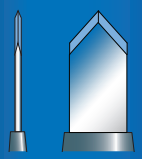
### DK Retractable Diamond Knife, 0.5mm 25° Single Edge Viscocanalostomy

Width 0.5mm
Length 3.5mm
Thickness 0.2mm

- 0.5mm wide 25° single edge Viscocanalostomy blade
- Retractable long handle, length 124mm

# Angled Retractable

## 4-402

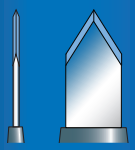


### DK Angled Retractable Diamond Knife, 1.8mm Spear

Width 1.8mm
Length 4mm
Thickness 0.2mm

- 1.8mm wide spear diamond blade
- 45° angled retractable handle, length 137mm

## 4-403

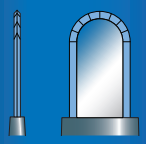


### DK Angled Retractable Diamond Knife, 1.8mm Lance

Width 1.8mm
Length 4mm
Thickness 0.2mm

- 1.8mm wide lance diamond blade
- 45° angled retractable handle, length 137mm

## 4-480

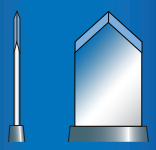


### DK Angled Retractable Diamond Knife, 2mm Dome

Width 2mm
Length 4mm
Thickness 0.2mm

- 2mm wide dome shape diamond blade
- Nineteen facets
- 45° angled retractable handle, length 137mm

## 4-406



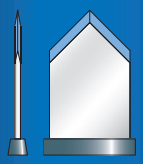
### DK Angled Retractable Diamond Knife, 2.2mm Spear

Width 2.2mm
Length 4mm
Thickness 0.2mm

- 2.2mm wide spear diamond blade
- 45° angled retractable handle, length 136mm

## 4-415

### DK Angled Retractable Diamond Knife, 2.5mm Spear

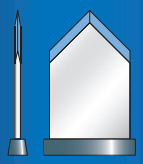


Width 2.5mm
Length 4mm
Thickness 0.2mm

- 2.5mm wide spear diamond blade
- 45° angled retractable handle, length 137mm

## 4-416

### Angled Retractable Diamond Knife, 2.4mm Spear

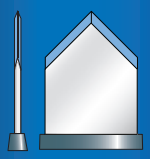


Width 2.4mm
Length 4mm
Thickness 0.2mm

- 2.4mm wide spear diamond blade
- 45° angled retractable handle, length 137mm

## 4-430

### DK Angled Retractable Diamond Knife, 2.8mm Spear

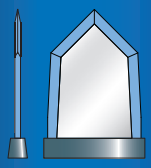


Width 2.8mm
Length 4mm
Thickness 0.2mm

- 2.8mm wide spear diamond blade
- 45° angled retractable handle, length 137mm

## 4-438

### DK Angled Retractable Diamond Knife, 2.7mm - 2.9mm Tapered

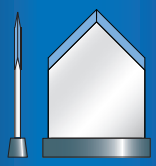


Width 2.7mm/2.9mm
Length 4mm
Thickness 0.2mm

- 2.7mm to 2.9mm tapered spear diamond blade
- 45° angled retractable handle, length 137mm

## 4-440

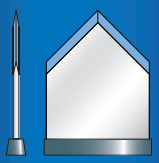
### DK Angled Retractable Diamond Knife, 3mm Spear



Width 3mm
Length 4mm
Thickness 0.2mm

- 3mm wide spear diamond blade
- 45° angled retractable handle, length 137mm

4-460



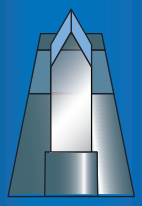
## DK Angled Retractable Diamond Knife, 3.2mm Spear

| | |
|---|---|
| Width | 3.2mm |
| Length | 4mm |
| Thickness | 0.2mm |


- 3.2mm wide spear diamond blade
- 45° angled retractable handle, length 137mm

## Position Handle

**5-831**



**DK Viscocanalostomy Four Position Diamond Knife, 1mm Lance**

Width 1mm
Length 3.5mm
Thickness 0.2mm

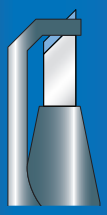
- 1mm wide lance diamond blade
- Four preset cutting depths; 0.12, 0.25, 0.3, 4mm
- Length 128mm

## About Your Diamond Knives

- To ensure your diamond knife is fully protected, the blade should be retracted back into the handle at all times, except when being used. Blades are most commonly damaged during cleaning, but if the cleaning process outlined below is followed, no damage should occur.
- As a regular cleaning process, gently wipe the blade from the back to the tip with a wet cleaning swab. Please ensure the diamond knife is thoroughly washed to remove residues and then finally rinse with de-mineralised water prior to autoclaving.
- Never use saline or a salt-based solution for cleaning, as salt residue may cause damage to the handle mechanism.
- With a superfine edge of this type any slight imperfection may cause a deterioration in sharpness although no damage to the blade is visible. Such slight imperfections can only be seen under extremely high magnification (x100) and are sometimes caused by the blade being touched against another instrument during use. Blades damaged in this way can normally be re-sharpened and re-ground to the original superb quality.
- If you notice that your knife is less sharp than it was, pack it firmly in a box (with the blade retracted) so it cannot be shaken about during transit, and return it to us for repair.
- Diamond is a hard brittle material and the blades should always be treated as fragile and handled with great care. Never exert any form of sideways pressure on the blade as this can cause it to break across and snap off completely. Blades which have been fractured in this way usually cannot be repaired.
- Ensure the knife is handled only by the staff who are completely aware of its fragility and who have access to these notes. If possible keep the knife separate from your other instruments and allow only restricted access by your staff.
- Normal methods of sterilisation cannot affect the diamond blade or the titanium handle in any way, but rough treatment during sterilisation can result in a damaged knife. Always ensure the blade is fully retracted before placing in a sterilising tray and autoclaving.

## 5-300-1

### DK Micrometer Diamond Knife, 1mm 45° Single Edge

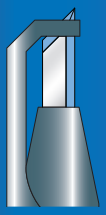


Width 1mm
Length 3mm
Thickness 0.2mm

- 1mm wide 45° single edge diamond blade
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## 5-310-1

### DK Micrometer Diamond Knife, 1mm 45° Double Edge

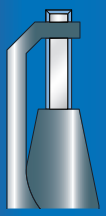


Width 1mm
Length 3mm
Thickness 0.2mm

- 1mm wide 45° double edge diamond blade
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## 5-329-1

### DK Triple Edge Micrometer Diamond Knife, 0.8mm Rectangular

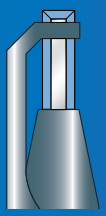


Width 0.8mm
Length 3.5mm
Thickness 0.2mm

- 0.8mm wide triple edge diamond blade
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## 5-330-1

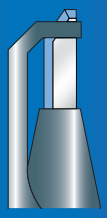
### Thornton Triple Edge Micrometer Diamond Knife, 1mm Rectangular



Width 1mm
Length 3mm
Thickness 0.2mm

- 1mm wide triple edge diamond blade
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## 5-340-1

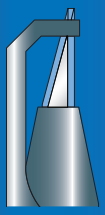


### DK Micrometer Diamond Knife, 1mm 35° Bifacet

Width 1mm
Length 3mm
Thickness 0.2mm

- 1mm 35° bifacet diamond blade
- 0.2mm (200 microns) flat at tip
- 35° cutting edge
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## 5-360-1



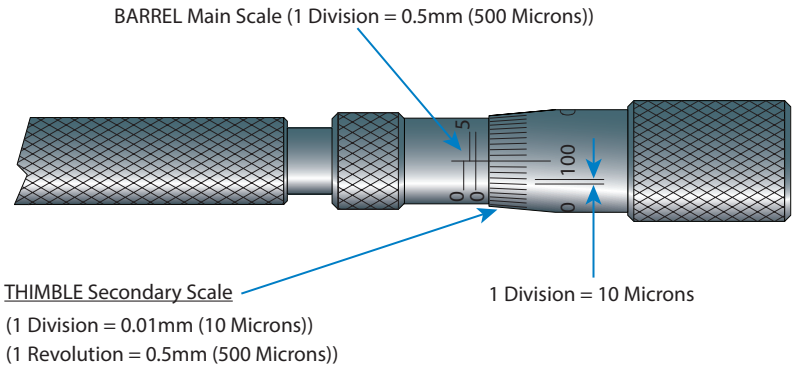
### Thornton Micrometer Diamond Knife, 1mm Triple Edge Arcuate

Width 1mm
Length 3mm
Thickness 0.1mm

- 1mm triple edge arcuate diamond blade
- 0.1mm (100 microns) blade thickness
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## Blade Depth Setting Instructions

5-300-1, 5-310-1, 5-329-1, 5-330-1, 5-340-1, 5-360-1

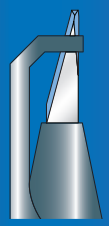



TO SET THE BLADE DEPTH. If a blade depth of 600 microns is required, the main scale on the barrel will need to be set at 500 microns and the secondary scale on the thimble will need to be set at 100 microns. The addition of the 2 scales will give the correct depth.

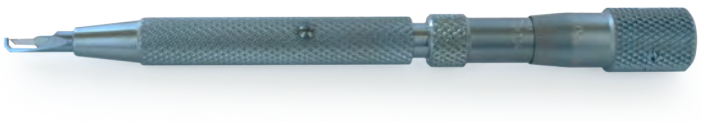
i.e.: Main scale + Secondary scale = Total depth
e.g.: 500 + 100 = 600 microns

5-362

## DK Thornton Micrometer Diamond Knife, 0.5mm Triple Edge Arcuate

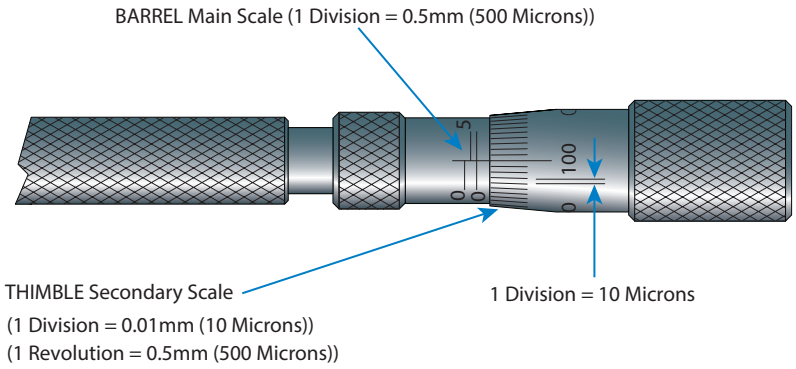


Width 0.5mm
Length 3.5mm
Thickness 0.1mm



- 0.5mm triple edge arcuate diamond blade
- 0.2mm (200 microns) flat at tip
- Upper side facet, 0.2mm (200 microns) in length
- 0.1mm (100 microns) blade thickness
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

## Blade Depth Setting Instructions 5-362




TO SET THE BLADE DEPTH. If a blade depth of 600 microns is required, the main scale on the barrel will need to be set at 500 microns and the secondary scale on the thimble will need to be set at 100 microns. The addition of the 2 scales will give the correct depth.

i.e.: Main scale + Secondary scale = Total depth
e.g.: 500 + 100 = 600 microns

## LRI

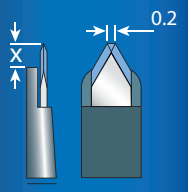
**4-620**
**4-620-2**
**4-620-3**
**4-620-4**

### Wallace LRI Diamond Knife, 1mm Lance (600 micron preset blade depth)

**4-620-2** (550 micron preset blade depth)

**4-620-3** (500 micron preset blade depth)

**4-620-4** (450 micron preset blade depth)



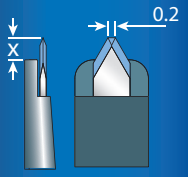

Width 1mm
Length 0.6mm
Thickness 0.2mm

- 0.2mm front flat tip
- Blade preset at 600 microns
- Retractable handle, length 120mm

Single footplate allows easier visibility of knife as it passes through corneal tissue. Handle designed for finger twirling as blade follows arcuate pattern of the limbus.

**4-621**

### Packard-Rosen LRI Diamond Knife, 1mm Lance (600 micron preset blade depth)



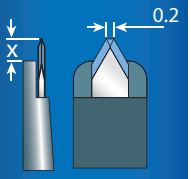

Width 1mm
Length 0.6mm
Thickness 0.2mm

- 0.2mm front flat at tip
- Blade preset at 600 microns
- Footplate designed to fit inside degree marker
- Distance from footplate to centre of diamond blade is 500 microns (0.5mm)
- Retractable long handle, length 118mm

Single footplate allows easier visibility of blade. Profile of footplate locates on the inside of the Packard LRI degree marker / fixation (9-706 Series), which is used as a guide, giving greater control and a uniform incision.

**4-621S**

### DK Short LRI Diamond Knife, 1mm Lance (600 micron preset blade depth)



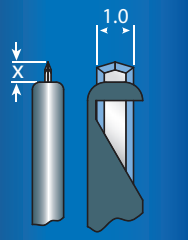

Width 1mm
Length 0.6mm
Thickness 0.2mm

- 0.2mm front flat at tip
- Blade preset at 600 microns
- Footplate designed to fit inside degree marker
- Distance from footplate to centre of diamond blade is 500 microns (0.5mm)
- Retractable long handle, length 50mm

Single footplate allows easier visibility of blade. Profile of footplate locates on the inside of the Packard LRI degree marker / fixation (9-706 Series), which is used as a guide, giving greater control and a uniform incision.

**4-622**

### Barrett LRI Diamond Knife, 1mm Quadruple (550 micron preset blade depth)

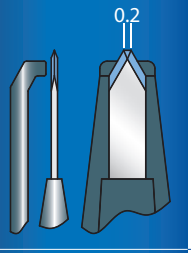



Width 1mm
Length 0.5mm
Thickness 0.2mm

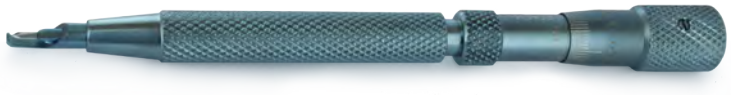
- Blade preset at 550 microns
- 8 facet vertical cutting blade
- Retractable long handle
- Length 120mm

**5-305-1**

### DK LRI Micrometer Diamond Knife, 1mm Lance, flat tip




Width 1mm
Length 3.5mm
Thickness 0.2mm



- 1mm lance diamond blade
- 0.2mm (200 microns) front flat tip diamond
- Micrometer handle, length 105mm
- One division on the scale is 10 microns
- One revolution of the barrel is 500 microns

REUSABLE TITANIUM INSTRUMENTS

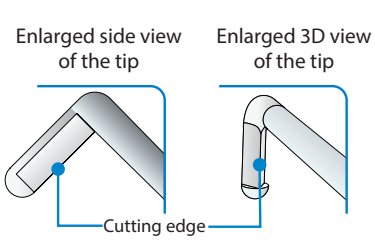
MANUFACTURED IN ENGLAND

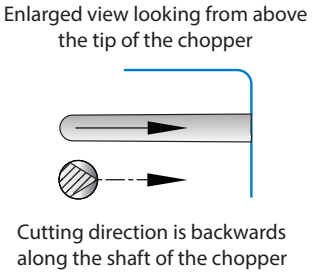
# Hooks, Probes Manipulators and Miscellaneous

Capsule Polishers
Cataract Support System
Choppers / Dividers / Hooks / Manipulators / Rotators
Clamps
Curettes
Depressors
Disruptors
Dissectors
Eye Shields
Fixation Hooks
Keratometers
Lacrimal Probes / Dilators
Lens Loop / Nucleus Expressor
Muscle Hooks
Refractive
ReLEx® SMILE
Retractors
Scleral Support System
Spatulas

## Horizontal Chopping

During the horizontal chop technique the lens nucleus is held in position using relatively high vacuum by the phacoemulsification tip buried in the centre of the nucleus. The horizontal chopper is passed under the distal edge of the anterior capsulotomy and around the lens equator, then drawn through the lens nucleus toward the phaco handpiece in the horizontal plane. The phaco tip and chopper are separated laterally, breaking the nucleus into two pieces. The horizontal choppers have a cutting edge which enables the chopper to cut through the nucleus in a specific direction.




**6-071**

### Scott Femto Chop

- Curved, smooth round tip
- Tip to angle length 10mm
- 45° angled shaft
- Round handle, length 120mm
- 0.45 constant diameter shaft to reduce leakage

Designed for the lens that has been femtosecond laser treated and is being removed with zero or little ultrasound power. Scott Femto Chop Technique and Scott Endolenticular Viscodissection involve segmenting the lens along the femto segment treatment lines and then using the curve of the tip to manipulate the segments into the central anterior chamber. The curve also avoids inadvertent damage to the capsule. While removing the segments, the curve of the chop is placed in close proximity to the phaco tip and protects the tip from contact with the capsule. The shaft of the chop is a consistent diameter and helps control fluid egress, helping to stabilise the anterior chamber.

**6-072-1**

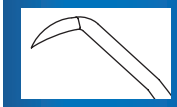
### Bordeianu Chopper, 1.75mm

- Tip length 1.75mm
- Sharp inner sides of tip
- Tip to angle length 10mm
- Cutting edge 60° to axis
- 60° angled shaft
- Round handle, length 124mm

Designed for use as a horizontal and oblique nucleus chopper, the cutting segment of the chopper extends around the bend and along the horizontal shaft. The chopper tip is inclined back towards the nucleus to ensure the capture of even hard nuclei. May be used as a nucleus sustainer, the ball at the base of the chopper is smooth to protect the posterior capsule. The leading edge of the chopper is smooth which is ideal for iris manipulation. The horizontal shaft has a 0.55mm parallel diameter to reduce leakage through a 23 gauge incision.

## 6-074

Video Available

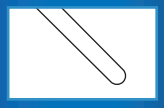


### Arasaslan Nucleus Chopper, designed for left side port

- Sharp point
- Tip length 1.4mm
- Cutting edge 30° to axis
- 60° angled curved shaft
- Tip to angle length 9.8mm
- Round handle, length 115mm

## 6-074-1

### Arasaslan Nucleus Chopper and Spatula, designed for left side port



Nucleus Cutter
- Sharp point, tip length 1.2mm
- Cutting edge 30° to axis
- 60° angled curved shaft, tip to angle length 9.8mm

Spatula
- 0.4mm diameter blunt tip spatula
- 45° angled shaft, tip to angle length 11mm
- Round handle, length 119mm

## 6-074-2

### Parmar Straight Vertical Chopper

- Sharp point
- Tip length 0.75mm
- Cutting edge 0° to axis
- 45° angled shaft
- Tip to angle length 10mm
- Round handle, length 116mm

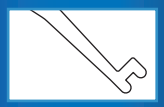
The short length of tip allows for safe direct vertical chopping and manoeuvrability compared to longer tipped instruments

## 6-075

Video Available



### Packard 'Fat Boy' Nucleus Chopper and Capsule Retractor



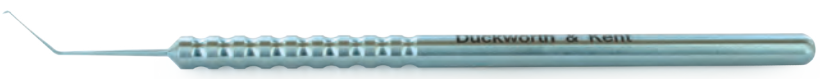
Nucleus Cutter
- Straight, sharp inner sides of tip, tip length 1.26mm
- Cutting edge 0° to axis
- Tapered shaft seal incision site to reduce leakage
- 50° angled shaft, tip to angle length 10mm

Retractor
- 0.25mm tip
- Tapered shaft seal incision site to reduce leakage
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 130mm

## 6-075-1

### Packard 'Fat Boy' Nucleus Cutter

- Straight, sharp inner sides of tip
- Tip length 1.24mm
- Cutting edge 0° to axis
- 50° angled shaft with slight curve
- Tip to angle length 10mm
- Round handle, length 118mm



## 6-076

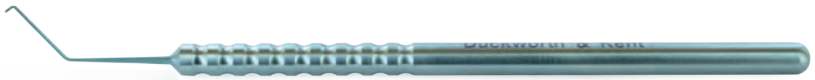
## Rosen Nucleus Divider, designed for left side port

- Straight, sharp inner sides of tip
- Tip length 0.8mm
- Cutting edge 45° to axis
- 45° angled shaft
- Tip to angle length 10mm
- Round handle, length 119mm

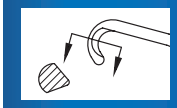
## 6-077

## DK Nucleus Divider, designed for left side port

- Straight, sharp inner sides of tip
- Tip length 1.45mm
- Cutting edge 45° to axis
- 45° angled shaft
- Tip to angle length 10.5mm
- Round handle, length 120mm



## 6-079



## Green Nucleus Divider, designed for left side port

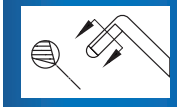
- Curved, sharp inner sides of tip
- Tip length 1mm
- Cutting edge 45° to axis
- 65° angled shaft
- Tip to angle length 9mm
- Round handle, length 117mm


## 6-079-1

## Green Nucleus Divider, designed for right side port

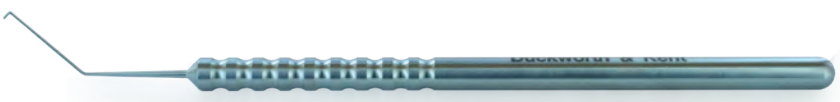
- Curved, sharp inner sides of tip
- Tip length 1mm
- Cutting edge 45° to axis
- 65° angled shaft
- Tip to angle length 9mm
- Round handle, length 117mm


## 6-080

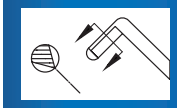


## DK Nucleus Divider

- Straight, sharp inner sides of tip
- Tip length 1.25mm
- Cutting edge 0° to axis
- 45° angled shaft
- Tip to angle length 14mm
- Round handle, length 122mm



## 6-080-2

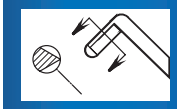


### DK Nucleus Divider / Rotator

Nucleus Divider
- Straight, sharp inner sides of tip, tip length 1.25mm
- Cutting edge 0° to axis
- 45° angled shaft, tip to angle length 14mm

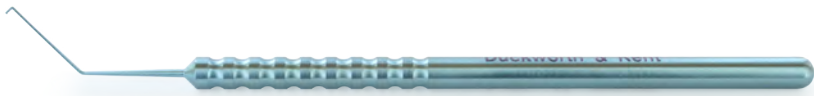
Nucleus Rotator
- 1.25 x 1mm blunt tip
- 45° angled shaft, tip to angle length 10mm
- Round handle, overall length 129mm

## 6-081

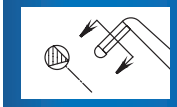


### DK Nucleus Divider, designed for left side port

- Straight, sharp inner sides of tip
- Tip length 1.25mm
- Cutting edge 45° to axis
- 45° angled shaft
- Tip to angle length 14mm
- Round handle, length 122mm



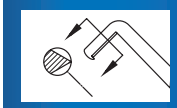
## 6-081-3



### DK Nucleus Cutter, designed for left side port

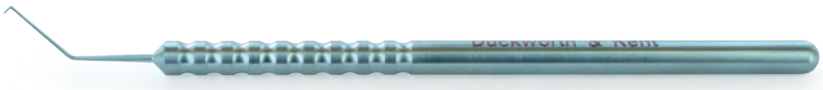
- Straight, sharp inner / outer sides of tip
- Tip length 1.25mm
- Cutting edge 30° to axis
- 45° angled shaft
- Tip to angle length 10.5mm
- Round handle, length 119mm

## 6-083

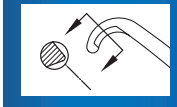


### Hara Nucleus Divider, straight, designed for left side port

- Straight, sharp inner sides of tip
- Tip length 1.1mm
- Cutting edge 45° to axis
- 45° angled shaft
- Tip to angle length 11mm
- Round handle, length 116mm



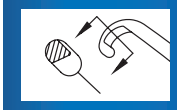
## 6-083-1



### Hara Nucleus Divider, curved, designed for left side port

- Curved, sharp inner sides of tip
- Tip length 1.1mm
- Cutting edge 35° to axis
- 45° angled shaft
- Tip to angle length 11mm
- Round handle, length 115mm

## 6-083-4



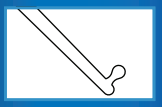
## Double Ended Nucleus Chopper and Manipulator

Chopper
- Curved sharp inner sides of tip, tip length 1.4mm
- Cutting edge 70° to axis
- Tip to angle length 13.5mm

Manipulator
- Highly polished mushroom rotator
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 122mm

## 6-083-5

## Sibilio Nucleus Chopper & Manipulator

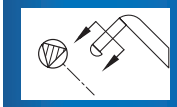


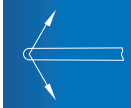
Chopper
- Straight sharp inner sides of tip, tip length 1.25mm
- Cutting edge 60° to axis
- Tip to angle length 11mm

Manipulator
- 45° angled shafts
- Tip to angle length 11mm
- Round handle, length 132mm

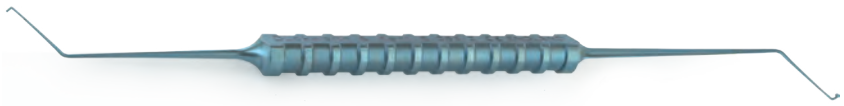
The thinner profile of the chopper facilitates ease of insertion under the capsule whilst maintaining maximum strength of the chopper tip.

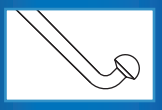
## 6-085





## Barrett Duo Nucleus Rotator / Manipulator / Splitter



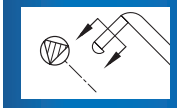


Nucleus Splitter
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting edges 60° to axis
- 45° angled shaft, tip to angle length 14mm

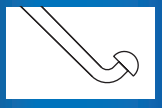
Rotator / Manipulator
- 0.65mm mushroom tip
- 45° angled shaft, tip to angle length 10mm
- Barrett balanced set handle, length 124mm

Smooth tip manipulator is useful as a nucleus rotator / manipulator in four quadrant nucleo fractis techniques. End of manipulator is ideal for retracting iris during phacoemulsification and inserting IOLs. Nucleus Splitter used during phacoemulsification techniques such as phaco chop and modified phaco chop procedures.

## 6-085-1



## Barrett Duo Nucleus Rotator / Manipulator / Splitter

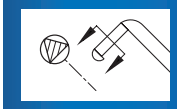


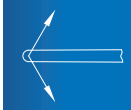
Nucleus Splitter
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting edges 60° to axis
- 45° angled shaft, tip to angle length 14mm

Rotator / Manipulator
- 0.65mm mushroom tip
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 130mm

## 6-085-3

### DK Nucleus Divider / Rotator



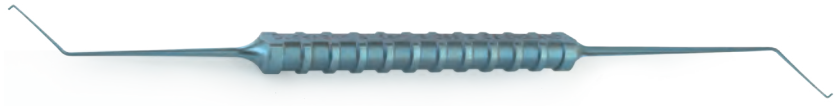


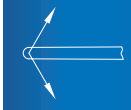
Nucleus Divider
- Straight, sharp inner sides of tip, tip length 1.25mm
- Cutting edges 60° to axis
- 45° angled shaft, tip to angle length 14mm

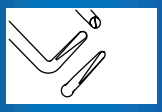
Nucleus Rotator
- 1.25 x 1mm blunt tip
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 129mm

## 6-085-6

### DK Barrett Nucleus Divider and Chopper





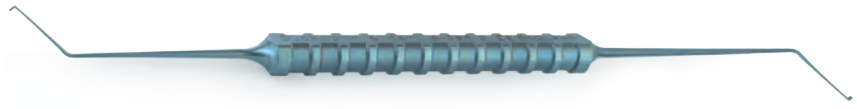


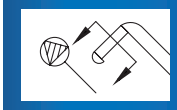
Nucleus Divider
- Blunt ended tip with straight, sharp inner sides, tip length 1.25mm
- Cutting edges 60° to axis
- 45° angled shaft, tip to angle length 14mm

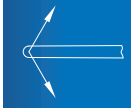
Nucleus Divider
- Sharp edge at base of tip
- Tip length 1.25mm
- 45° angled shaft, tip to angle length 10mm
- Barrett balance set handle, length 125mm

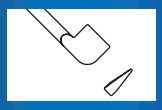
## 6-085-7

### Barrett Phaco-Axe and Horizontal Chopper







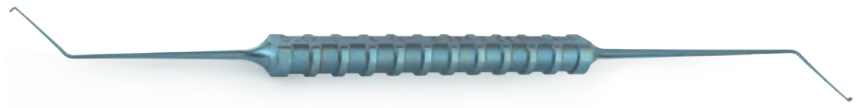


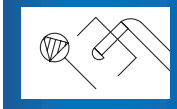
Nucleus Divider, Horizontal Chopping
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting edge 60° to axis
- 45° angled shaft, tip to angle length 14mm

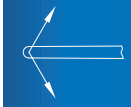
Barrett Phaco-Axe, Vertical Chopping
- 0.75mm x 0.75mm axe
- 45° angled shaft, tip to angle length 10mm
- Barrett balanced set handle, length 125mm

## 6-085-8

### Double Ended Nucleus Chopper and Rotator





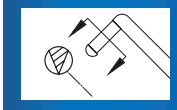


Nucleus Divider, Horizontal Chopping
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting edge 60° to axis
- 45° angled shaft, tip to angle length 14mm

Nucleus Rotator
- 1 x 0.5mm blunt tip
- 45° angled shaft, tip to angle length 10mm
- Barrett balanced set handle, length 125mm

## 6-086

### Inamura Nucleus Divider / Manipulator, designed for right side port



Nucleus Divider
- Straight, sharp inner sides of tip, tip length 1.1mm
- Cutting edge 45° to axis, angled left
- 45° angled shaft, tip to angle length 11mm

Manipulator
- 0.55mm ball shaped tip
- 45° angled shaft, tip to angle length 11mm
- Round handle, length 129mm

6-086-1

## Inamura Nucleus Divider / Manipulator, designed for left side port

Nucleus Divider
- Straight, sharp inner sides of tip, tip length 1.1mm
- Cutting edge 45° to axis, angled right
- 45° angled shaft, tip to angle length 11mm

Manipulator
- 0.55mm ball shaped tip
- 45° angled shaft, tip to angle length 11mm
- Round handle, length 129mm

6-086-5

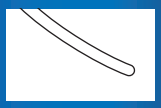
## Jakobsen-Barrett Nucleus Cutter and Rotator, designed for left side port

Nucleus Divider
- Blunt ended tip with straight, sharp inner sides, tip length 1mm
- Cutting edge 15° to axis
- 45° angled shaft, tip to angle length 10mm

Nucleus Rotator
- 0.65 highly polished mushroom
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 126mm

6-086-6

## DK Nucleus Cutter and Repositor, designed for left side port



Nucleus Cutter
- Straight, sharp inner sides of tip, tip length 1.25mm
- Cutting edge 45° to axis
- 45° angled shaft, tip to angle length 14mm

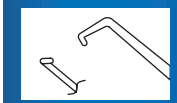
Repositor
- 0.5mm diameter blunt tip spatula
- 45° angled shaft, tip to angle length 14mm
- Round handle, length 132mm

6-086-4

## Inamura RACE Hook - Right Hand

- Tip to angle length 0.5mm
- Tip length, angle to angle, 1.5mm
- 40° angle to tip length 9mm
- Round handle, length 119mm

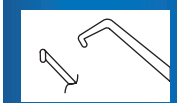
▶ Video Available



6-086-7

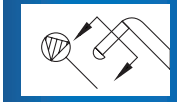
## Inamura RACE Hook - Left Hand

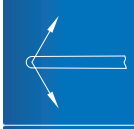
- Tip to angle length 0.5mm
- Tip length, angle to angle, 1.5mm
- 40° angle to tip length 9mm
- Round handle, length 119mm



6-091

## DK Double Ended Nucleus Divider and Rotator





Nucleus Divider
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting edges 60° to axis
- 45° angled shaft, tip to angle length 14mm

Rotator
- 0.67mm forked style tip
- 45° angled shaft, tip to angle length 9mm
- Round handle, length 127mm

# Vertical Chopping

Vertical chop is a variant of the horizontal chop technique in which the chopper is not passed horizontally around the lens equator, but rather enters the nucleus vertically near the centre of the lens. The vertical chop technique benefits from good visualisation of the chopper throughout the procedure and the avoidance of proximity to the capsular bag, resulting in increased safety.

**The Phaco-Axe is a wedge-shaped instrument designed to produce a quick vertical crack of the nucleus during phacoemulsification.** The wedge produces a fracture in the vertical plane of the nucleus along fault lines that exist aligned with the lens. The axe manoeuvre consists of 4 steps, which occur in rapid sequence so that it appears as one fluid movement.

Step 1. The initial step is to engage the nucleus deeply to at least 50 % of the nuclear thickness. A small amount of phaco energy is required to embed the nucleus, which is then held with vacuum alone. The phaco tip should not advance significantly beyond the centre of the nucleus so that there is sufficient space to place the axe in front of the tip.

Step 2. The axe is then moved vertically downwards just in front of and adjacent to the phaco tip to initiate a vertical cleft in the nucleus.

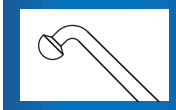
Step 3. The phaco tip moves in an upward and outward motion separating the segment of nucleus away from the axe, which holds the remainder of the lens in position and extending the vertical cleft created by the axe into a crack.

Step 4. The final motion is to separate the axe and the phaco tip to propagate the crack through the full thickness of the lens. The initial crack tends to propagate along the entire lens and is not confined to one quadrant as tends to occur with initial sculpting and cracking associated with divide and conquer techniques.

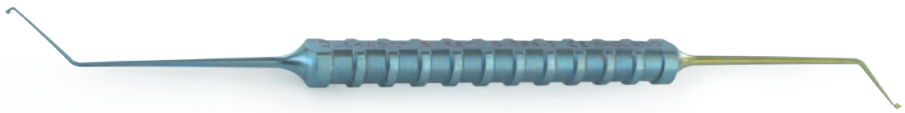
**After the quick vertical crack** the segment is engaged on the phaco tip and is removed with the application of ultrasound energy. The axe is well suited to rotating the nucleus for the next vertical crack. The entire axe manoeuvre is performed within the margins of the capsulorhexis unlike horizontal chopping procedures where access to the lens equator under the rhexis is required. High vacuum levels are therefore not necessary to engage the nucleus as in conventional chopping procedures where the chopper tends to displace the segment of nucleus from the phaco tip. A mushroom manipulator is better suited for manipulating epinuclear material and this is provided on the other end of the phaco axe. The technique is well suited to Dual Linear systems where the linear control of phacoemulsification and aspiration allows the surgeon to simultaneously control these parameters and use just the required energy and aspiration to embed the phaco tip and remove each segment of nucleus. The Phaco-Axe produces a quick vertical crack of the nucleus, which allows the surgeon to rapidly fracture and remove a cataract with less energy than conventional nucleofractis techniques and with greater safety and precision than other chopping manoeuvres.

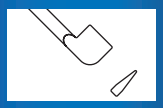
**6-085-2**

▶Video Available



## Barrett Phaco-Axe with Mushroom Rotator, designed for left side port





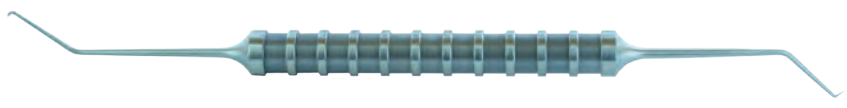
Rotator
- 0.65 highly polished mushroom rotator
- 45° angled shaft, tip to angle length 10mm
- Barrett balance handle, length 122mm

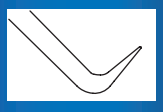
Phaco-Axe
- 0.75 x 0.75mm axe
- Axe direction suitable for a right handed surgeon
- 45° angled shaft, tip to angle length 10mm

**6-069**

▶Video Available

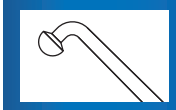
## Daphna Vertical Chopper



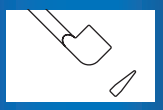


- 2 x vertical choppers
- 1.8mm length x width 0.45mm & 1.4mm length x width 0.5mm
- 45° angled shaft, tip to angle length 10mm
- Designed for the left side port
- Barrett balance handle, length 115mm

**6-085-4**



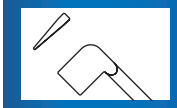
## Barrett Phaco-Axe with Mushroom Rotator, designed for right side port



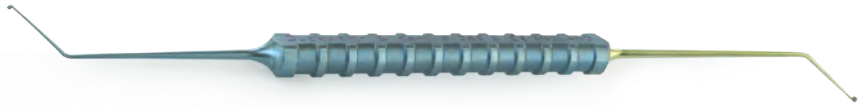
Rotator
- 0.65 highly polished mushroom rotator
- 45° angled shaft, tip to angle length 10mm
- Barrett balance handle, length 122mm

Phaco-Axe
- 0.75 x 0.75mm gold axe
- Axe direction suitable for a left handed surgeon
- 45° angled shaft, tip to angle length 10mm

## 6-085-5



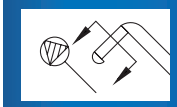
### Barrett Double Ended Phaco-Axe, designed for left side port

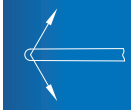


Phaco-Axe
- 0.75 x 1.10mm axe
- Axe direction suitable for a right handed surgeon
- 45° angled shaft, tip to angle length 10mm

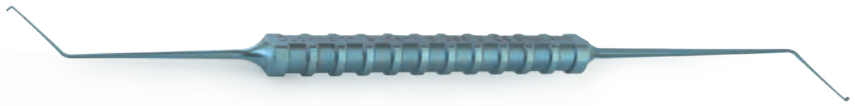
Phaco-Axe
- 0.75 x 0.75mm gold axe
- 45° angled shaft, tip to angle length 10mm
- Barrett balance handle, length 124mm

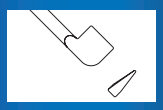
## 6-085-7





### Barrett Phaco-Axe and Horizontal Chopper



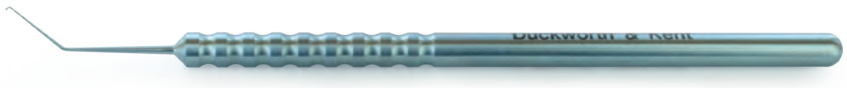


Nucleus Divider, Horizontal Chopping
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting edge 60° to axis, left or right side port
- 45° angled shaft, tip to angle length 14mm

Barrett Phaco-Axe, Vertical Chopping
- 0.75mm x 0.75mm axe, left side port
- 45° angled shaft, tip to angle length 10mm
- Barrett balanced set handle, length 125mm

## 6-087

### Mackool Phaco Chopper

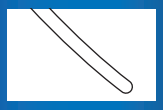


- Tip length 0.6mm
- 45° angled shaft, tip to angle length 10mm

- Straight miniature 0.3mm diameter ball shaped tip
- Round handle, length 119mm

## 6-087-1

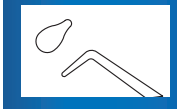
### Mackool Double Ended Phaco Chopper and Spatula



Chopper
- Straight miniature ball shaped tip, tip length 0.7mm
- 45° angled shaft, tip to angle length 10mm

- 0.4mm diameter blunt tip spatula
- 50° angled shaft, tip to angle length 11mm
- Round handle, length 114mm

## 6-090



### DK Nucleus Divider Hook

- Straight, bulbous shape flat tip
- Tip width 0.62mm, length 0.9mm
- 35° angled shaft, tip to angle length 11mm
- Round handle, length 114mm

## 6-090-2

### Kozaki Dividing Hook

- Dividing hook, 1.1mm length by 0.6mm wide
- 40° angled shaft, tip to angle length 11mm
- Round handle, length 114mm

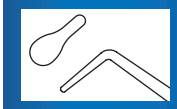
6-090-3

Video Available

## Sugiura Central Divider

- Paddle shape divider, tip 1.7mm long by 0.6mm wide
- Curved shaft at 45° angle, tip to angle length 10mm
- Round handle, length 113mm

6-090-4

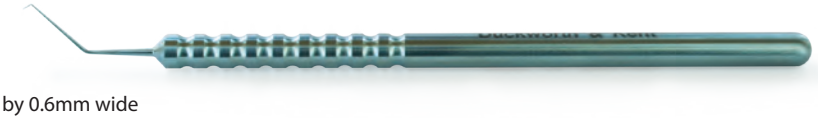


## DK Nucleus Divider

- Paddle shape divider, tip 1.25mm long by 0.6mm wide
- Straight shaft at 35° angle, tip to angle length 11mm
- Round handle, length 115mm

6-090-6

## Wada Nucleus Dividing Hook



- Paddle shape divider, tip 1.35mm long by 0.6mm wide
- Straight shaft at 40° angle, tip to angle length 11mm
- Thinner dividing edge on right side (for use through left side port)
- Round handle, length 114mm

6-090-7

## Rana/Ota Nucleus Dividing Hook

- Vertical paddle shaped divider with slot, 1.35mm length
- Straight shaft at 40° angle, tip to angle length 11mm
- Round handle, length 114mm

6-093

## DK Nucleus Divider

- Straight, blunt tip, tip length 1mm
- 45° angled shaft, tip to angle length 12mm
- Round handle, length 120mm

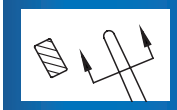
6-095

## Akahoshi Nucleus Sustainer

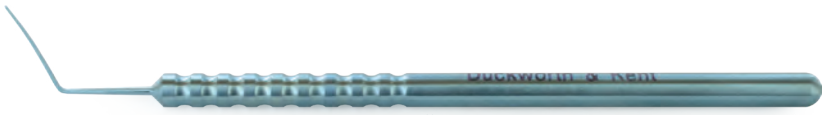

- 0.5mm diameter bulbous tip, tip length 1.7mm
- 45° angled shaft, tip to angle length 10mm
- Short round handle, length 109mm

Placed to sustain nucleus. Used in conjunction with prechopping series of forceps.

## 6-099



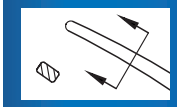
### Mackool-Barraquer Spatula



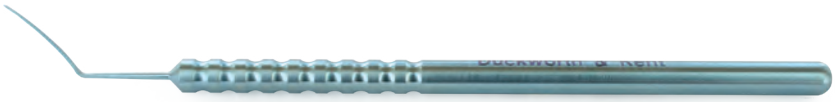
- 0.45mm width, 0.25mm thickness
- Angled shaft, tip to angle length 15mm
- Round handle, length 116mm

Blunted 0.45mm tip, modified shape and design in order to minimise incision leakage during use and reduce risk of posterior capsule damage.

## 6-099-1

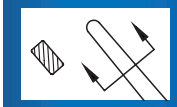


### DK Iris Repositor



- 0.45mm width, 0.25mm thickness
- Angled shaft, tip to angle length 15mm
- Highly polished internal face of curved tip
- Round handle, length 121mm

## 6-099-2



### DK Spatula

- 0.5mm width, 0.2mm thickness
- Angled shaft, tip to angle length 10mm
- Highly polished underside of blade
- Round handle, length 120mm

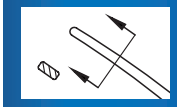
## 6-099-3

### Anwar Keratoplasty Spatula

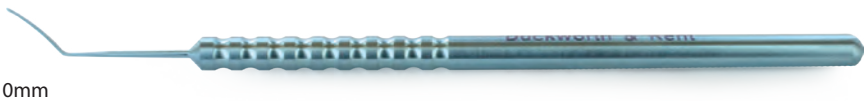
- 0.25 diameter blunt tip
- Tip tapered from 0.5mm diameter
- Angled shaft, tip to angle length 7mm
- Round handle, length 115mm

Short and firm spatula with a polished tip that facilitates lamella dissection / delineation or insertion into the pre-Descement's plane. The tip is tapered from 0.5 to 0.25mm diameter and allows tenting up of the final corneal lamella for a safe split by a sharp metal blade.

## 6-099-4



### DK Spatula



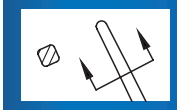
- 0.5mm width, 0.2mm thickness
- Curved shaft, tip to angle length 10mm
- Highly polished underside of blade
- Round handle, length 121mm

## 6-100

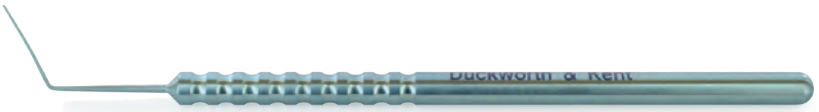
### DK Castroviejo Style Cyclodialysis Spatula

- Blade width 0.7mm
- Slightly curved shaft
- 13mm, 0.25mm thick curved spatula blade
- Round handle, length 118mm

## 6-101

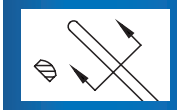


### DK Barraquer Style Iris Spatula

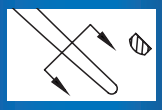


- Blade width 0.25mm
- 15mm angled spatula blade
- Round handle, length 115mm

## 6-102

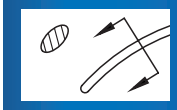


### DK Castroviejo Style Double Ended Synechia Spatula

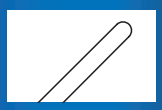



- 0.5mm width, 10mm and 15mm angled spatula blades
- Round handle, length 130mm

## 6-103-1



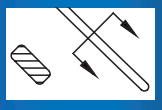
### DK Double Ended Spatula, for repositioning epithelial flap

- 0.8mm diameter, double ended, one curved and one straight
- 45° angled shaft, tip to angle length 12mm
- Round handle, length 127mm

## 6-105-1

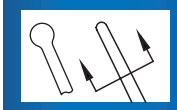
### Double Ended Spatula



Rounded tip
- 0.60mm tip
- 45° angled shaft, tip to angle length 8mm

Flattened tip
- 0.2mm x 0.5mm highly polished
- 45° angled shaft, tip to angle length 8mm
- Round handle, length 123mm

## 6-107

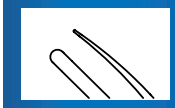


### DK Rounded Spatula

- 0.3mm x 0.65mm round tip
- 45° angled curved shaft
- Tip to angle length 11mm
- Round handle, length 121mm

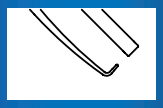
## 6-848

### Krokchings Femto Incision Opening Spatula

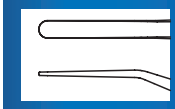
Femto Spatula
- Fine flat tip, 0.5mm width
- 4mm slightly curved spatula blade
- Opens primary and secondary femto created incisions

Femto Spatula
- 4mm slightly curved spatula blade
- Fine point, 0.5mm wide x 0.5mm 90° angled tip
- Opens limbal relaxing incisions (LRI)
- Round handle, length 119mm



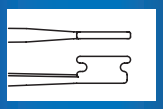
## 6-850

### Cionni Femto Spatula and Nucleus Divider



Femto Spatula
- Fine point, 0.5mm width
- 3mm spatula blade
- Opens primary and secondary femto created incisions

Nucleus Divider
- Blade 1.6mm x 0.8mm
- Used for pushing and pulling the iris or anterior capsule edge
- Round handle, length 131mm



# Iris Retractors, Cataract Support System and Sterilising Cases

## 6-130

### Mackool Iris Retractor

- Tip to block length 3.17mm
- Supplied individually

## 6-140

### Mackool Cataract Support System

▶Video Available

- (6 to 8 recommended)
- 0.3mm x 2.8mm hook
- Supplied individually

## 6-135

### Mackool Holder and Sterilising Case

- External dimensions: 19mm diameter, 12mm height
- Internal dimensions: 15mm diameter, 10mm height
- Made from titanium

## 6-135-1

### Mackool Holder and Sterilising Case

- External dimensions: 19mm diameter, 12mm height
- Internal dimensions: 15mm diameter, 10mm height
- Made from Ultem, a semi-transparent orange coloured plastic

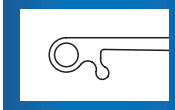
## 6-138

### Sterilising Case for Retinal Cannula Plugs

- External dimensions: 19mm diameter, 13mm height
- Secures up to 8 cannula plugs
- Made from Ultem, a semi-transparent orange coloured plastic

## Hooks / Manipulators / Rotators

### 6-109



**Ogawa Iris Reconstruction Hook**

- 0.55mm diameter eyelet with 0.3mm diameter stabiliser
- Round handle, length 116mm

Rounded knob hooks and positions iris while circular ring stabilises and supports iris for needle passes. Great for modified McCannell iris suturing technique using long, curved, trans-chamber type needles.

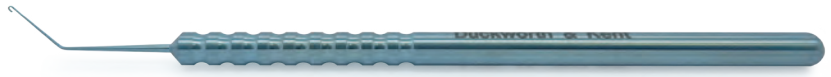
### 6-112

**Anwar Keratoplasty Hook**

- 0.18mm diameter tip for 1mm length
- Flat face at tip
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 119mm

### 6-122

**DK Iris Hook**



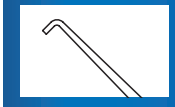
- 0.3mm diameter, hook length 0.9mm
- Angled shaft, tip to angle length 10mm
- Round handle, length 118mm

### 6-245

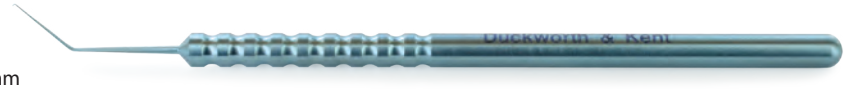
**Double Ended Sinskey Hook**

- 2 x 0.2mm diameter tips
- Angled shafts, tip to angle length 10mm
- Round handle, length 125mm

### 6-249



**DK Delicate Sinskey Hook**



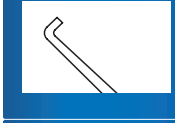
- 0.12mm diameter
- Angled shaft, tip to angle length 10mm
- Round handle, length 119mm

### 6-250

**DK Sinskey Hook**

- 0.18mm diameter tip pointing down
- Angled shaft, tip to angle length 10mm
- Round handle, length 119mm

### 6-250-1

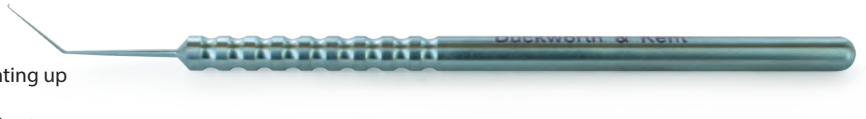


**DK Sinskey Hook (reverse)**

- 0.18mm diameter tip pointing up
- Angled shaft, tip to angle length 10mm
- Round handle, length 118mm

6-250-2

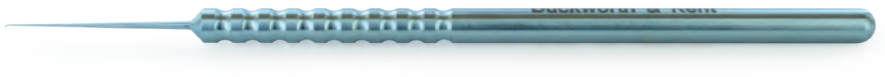
## Reverse Sinskey Hook, Flat Shaft



- 0.22mm diameter rounded tip pointing up
- Tip height 0.7mm, angled 90°
- Angled flat shaft, tip to angle length 10mm
- Round handle, length 119mm

6-251

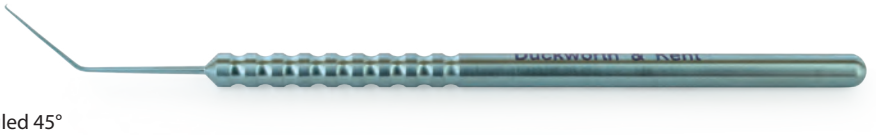
## DK Sinskey Hook



- 0.18mm diameter
- Straight shaft
- Round handle, length 121mm

6-256

## Descemet's Scraper



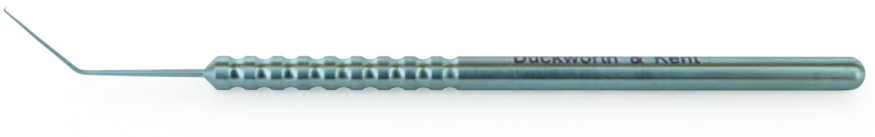
- Tip width 0.2mm, height 0.45, angled 45°
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 122mm

Used to scrape Descemet's membrane from the underside of the cornea during DSEK.

6-257

Video Available

## Daya Descemet's Scraper

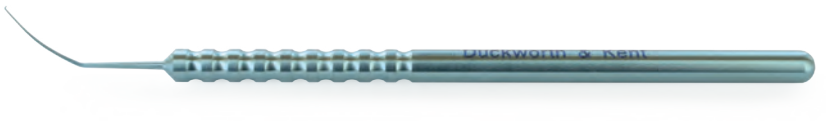


- Sharp edges around tip
- Tip width 0.2mm, height 0.5mm
- 45° angled shaft, tip to angle length 14mm
- Round handle, length 122mm

The Daya Descemet's Scraper has a sharp paddle tip that is angled up from the shaft to scrape the Descemet's membrane under the cornea. The long 14mm shaft allows the tip to go all the way across the cornea with ease.

6-258

## Descemet's Spatula

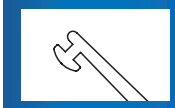


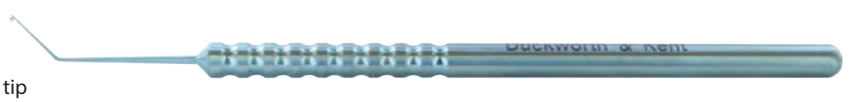
- Pointed tip
- Tip length 0.5mm, diameter 0.2mm
- 45° angled curved shaft length 14mm
- Round handle, length 117mm

The Descemet's spatula is used to score a circular pattern into the Descemet's membrane without leaving the anterior chamber. Using a ring marker (9-781 8mm or 9-788 9mm) a circular template can be marked on the external surface of the cornea.

6-400

## Kuglen Iris Hook and IOL Manipulator

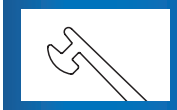




- 0.76mm x 0.75mm x 0.25mm rotator tip
- Push, pull style
- Angled shaft, tip to angle length 9mm
- Round handle, length 122mm

## 6-400-1

### Mackool-Kuglen Hook and IOL Manipulator



- 0.88mm x 0.86mm x 0.25mm rotator tip
- Push, pull style
- Angled shaft, tip to angle length 9mm
- Round handle, length 118mm

## 6-410-1

### IOL Angled Manipulator

- 0.15mm diameter, hook length 0.4mm
- 0.15mm diameter peg, length 0.4mm
- Angled shaft, tip to angle length 10mm
- Round handle, length 114mm

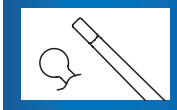
## 6-410-2

### IOL Straight Manipulator

- 0.15mm diameter, hook length 0.4mm
- 0.15mm diameter peg, length 0.4mm
- Straight shaft
- Round handle, length 117mm

## 6-411

### IOL Manipulator



- 0.8mm diameter disc, 0.3mm thick
- Textured underside of disc
- Curved shaft, tip to curve length 11mm
- Round handle, length 102mm

## 6-417

### Ogawa Standard IOL Manipulator

- 0.5mm diameter tip
- Angled shaft, tip to angle length 11mm
- Round handle, length 119mm

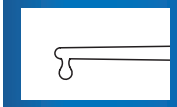
## 6-418

### Ogawa Miniature IOL Manipulator

- 0.3mm diameter tip
- Angled shaft, tip to angle length 11mm
- Rotates and manoeuvres IOLs as well as cataract nucleus
- Round handle, length 119mm

6-418-1

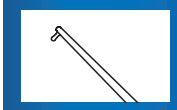
## Ogawa Straight Miniature IOL Manipulator



- 0.3mm diameter tip
- Straight shaft
- Rotates and manoeuvre IOLs as well as cataract nucleus
- Round handle, length 122mm

6-418-2

## Daya Textured Manipulator

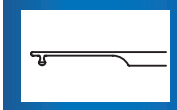


- 0.2mm diameter tip
- Lightly textured tip
- Angled shaft, tip to angle length 11mm
- Round handle, length 119mm

6-418-3

▶ Video Available

## Ogawa 23 Gauge Lens IOL Manipulator

- 0.3mm diameter tip
- Fits through 23 gauge pars plana vitrectomy cannulas
- Straight shaft
- Round handle, length 122mm

Specially designed to assist in retrieving IOLs dislocated into the posterior segment of the eye. Ball shaped tip can be used to manipulate haptics and / or optics, even when covered with residual lens capsule.

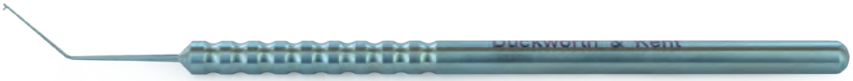
6-450

## Lester IOL Manipulator

- 0.4mm rounded tip / rotator
- Shaft to rotator length 0.8mm
- Push, pull style
- Angled shaft, tip to angle length 9mm
- Round handle, length 118mm

6-460

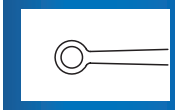
## Hirschman IOL Rotator



- 0.4mm rounded tip
- Angled shaft, tip to angle length 12mm
- Round handle, length 120mm

6-462

## Straight Ring Manipulator



- Straight shaft
- 0.5mm inside diameter, 0.8mm outside diameter, rounded tip
- Round handle, length 121mm

A straight shaft enables the surgeon to roll the instrument between the fingers to rotate the tip with fine control.

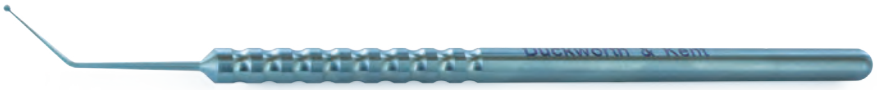
6-462-1

## DK Angled Ring Manipulator

- 0.5mm inside diameter, 0.8mm outside diameter, rounded tip
- Angled shaft, tip to angle length 10mm
- Round handle, length 118mm

6-462-2

## Janjani Angled Manipulator



- 0.8mm diameter, rounded tip
- Angled shaft, tip to angle length 10mm
- Round handle, length 118mm

6-464

## Ota Shaped Hook for the IOL Intrascleral Fixation Technique

▶Video Available

- Reverse hook, 0.25mm diameter, length 1.5mm
- Angled shaft, tip to angle length 10mm
- Round handle, length 118mm

Used in conjunction with Ota Y Marker (9-845) and Ota Reference Marker (9-846) for IOL Intrascleral Fixation Technique. The U-shape hook is used in conjunction with vitreoretinal forceps to extract the haptic through the Y shape incision.

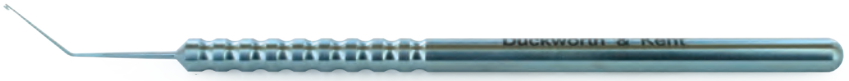
6-464-1

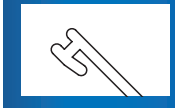
## Ota Fine Shaped Hook for the IOL Intrascleral Fixation Technique

- Reverse hook, 0.20mm diameter, length 1mm
- Angled shaft 45°, tip to angle length 10mm
- Round handle, length 119mm

6-466

## Mackool Capsule Retractor and IOL Guide



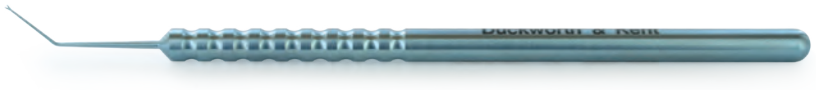


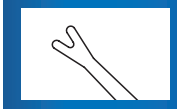
- 0.25mm tip
- 45° angled shaft, tip to angle length 12mm
- Round handle, length 120mm

Used in minimising capsular stress during insertion of trailing IOL haptic, especially when capsulorhexis is not intact or zonular laxity is present. Open hook proximal to tip gently retracts anterior capsule. Distal concave end is used as a guide while trailing haptic is maintained when dialling in IOL. In this manner, there is no direct contact of haptic against capsular edge, thus avoiding unwanted stress to capsule and / or zonule.

6-467

## DK IOL Manipulator / Rotator

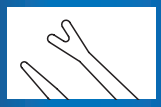




- 0.25mm inside diameter, 0.66mm outside diameter, forked tip
- Angled shaft, tip to angle length 9mm
- Round handle, length 117mm

6-469

## DK Double Ended Spatula / IOL Manipulator / Rotator



IOL Manipulator / Rotator
- 0.67mm forked tip
- 45° angled shaft, tip to angle length 9mm
- Round handle, length 125mm

Spatula
- 0.55mm spatula
- 45° angled shaft, tip to angle length 11.5mm

6-469-1

## DK Double Ended Spatula / IOL Manipulator / Rotator

IOL Manipulator / Rotator
- 0.67mm delicate forked tip
- 45° angled shaft, tip to angle length 9mm
- Round handle, length 125mm

Spatula
- 0.55mm spatula
- 45° angled shaft, tip to angle length 11.5mm

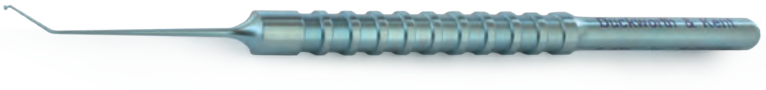
6-470

## Bechert Nucleus Rotator

- 0.78mm tip, tip vertically oriented
- Angled shaft, tip to angle length 10mm
- Round handle, length 118mm

6-472

## Barrett Nucleus Rotator / Manipulator

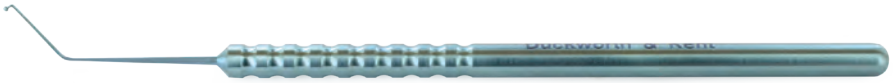


- 0.65mm mushroom style tip
- Angled shaft, tip to angle length 10mm
- Barrett balanced set handle, length 119mm

Multipurpose, eliminates need for multiple hooks and second instruments. Used as a second instrument to facilitate rotation and manipulation of nucleus as cracking. Mushroom style tip minimises chance of inadvertent damage to capsule while manipulating nuclear quadrants. Used to rotate and dial IOL within capsular bag. In presence of a small capsulorhexis, two manipulators are used in a two-handed manoeuvre allowing retraction of capsule or pupil with one manipulator and rotation and dialling with a second manipulator. Manipulator is well suited to retracting iris in an atraumatic fashion, and two manipulators can stretch a small pupil prior to phacoemulsification.

6-472-1

## Nucleus Rotator / Manipulator



- 0.65mm mushroom style tip
- Angled shaft, tip to angle length 10mm
- Round handle, length 119mm

6-472-4

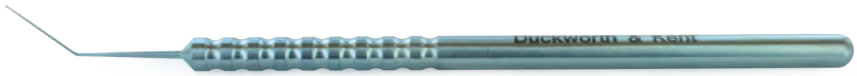
## Brown Intracapsular Manipulator

- Flattened ball shaped tip
- 0.25mm wide tip
- 70° angled tip
- Round handle, length 119mm

Curved tip allows the manipulator to go over the top of steeply domed cataracts and especially mature cataracts where there the capsule is under stress. The curve stops the shaft of the manipulator putting downward pressure on the centre of the cataract.

6-476

## Mackool Nucleus Rotator / Elevator

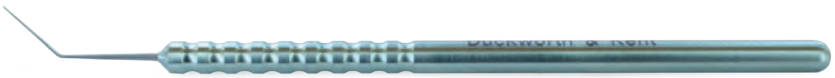


- 0.78mm tip
- 45° angled shaft, tip to angle length 12mm
- Round handle, length 120mm

Forked tip provides superb purchase on nucleus for rotation or elevation of nuclear sections.

6-479

## Deitz ICL Slider / Tucker



- 0.78mm forked tip
- Lightly textured surface underside from tip to angle
- 45° angled straight shaft, tip to angle length 11mm
- Round handle, length 119mm

Textured manipulator to slip ICL under iris.

6-481

## Pallikaris ICL Manipulator

- Textured finish
- 45° angled shaft, tip to angle length 12mm
- Round handle, length 119mm

6-482

## Bylsma ICL Manipulator

- 0.6mm x 1.mm oval shaped tips
- 45° angled curved shafts (curved left to right), tip to angle length 12.5mm
- Round handle, length 145mm

Designed to maximise protection of crystalline lens during ICL insertion. Curved, vaulted arms allow placement of ICL footplates through a paracentesis or keratome incision. Textured paddle provides secure grip on foot-plates as they are positioned under iris. Left and right configuration allows minimal changing of instruments and promotes a rapid atraumatic and reproducible tucking of ICL into its final position in posterior chamber.

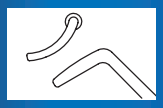
6-490-1

## DK Nucleus Rotator, designed for right side port

- 0.2mm by 0.4mm tip
- 1.75mm tip length, curved to left
- Angled shaft, tip to angle length 10mm
- Round handle, length 119mm

6-491-2

## DK Nucleus Rotator, designed for left side port



- 0.2mm by 0.3mm tip
- 1.75mm tip length, curved to right
- Angled shaft, tip to angle length 10mm
- Round handle, length 119mm

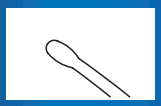
6-491-3

## DK Nucleus Rotator, designed for right side port

- 0.2mm by 0.3mm tip
- 1.75mm tip length, curved to left
- Angled shaft, tip to angle length 10mm
- Round handle, length 119mm

6-494

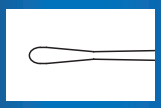
## DK Nucleus Rotator



- 0.65mm diameter tip
- 45° angled curved shaft, tip to angle length 12mm
- Round handle, length 120mm

6-495

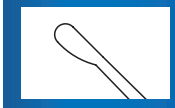
## Brazier Nucleus Rotator



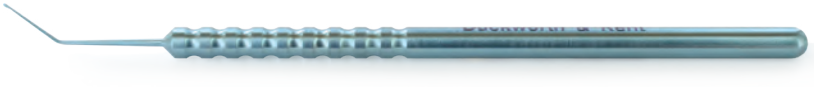
- 0.75mm blunt tip
- Curved shaft, tip to curve length 23mm
- Round handle, length 118mm

6-496

## Drysdale Rotator



- 0.5mm tip with 1.3mm paddle
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 118mm



6-496-1

## Drysdale Rotator - Short

- 0.5mm tip with 1.4mm paddle
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 118mm

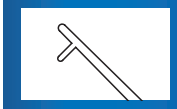
6-496-2

## Drysdale Rotator

- 0.8mm x 2.4mm large paddle
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 118mm

Designed to be used to rotate and manipulate the nucleus.

6-500

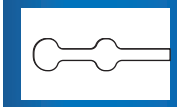


## Fenzl Hook

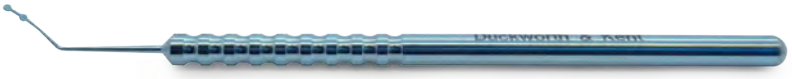
- 0.13mm dialler
- Angled shaft, tip to angle length 9mm
- Round handle, length 117mm

# KAMRA™ Inlay Manipulator

6-820



## KAMRA™ Inlay Manipulator



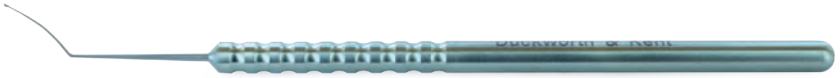
- Textured underside of tip
- 45° angled slightly curved shaft, tip to angle length 10mm
- Overall length 118mm

Go to page 65 to view our KAMRA™ Corneal Inlay Insertion Forceps - 2-920

# Capsule Polishers

6-510

## Mackool Capsule Polisher

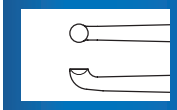


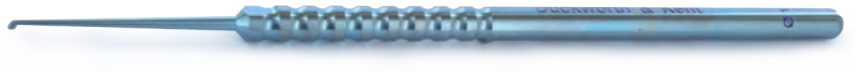
- 0.3mm diameter olive shaped textured tip
- 45° angled shaft, tip to angle length 11mm
- Round handle, length 119mm

## Curettes

**6-641**

### DK Meyerhoefer Chalazion Curette, 1mm cup

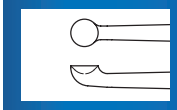




- 1mm cup
- Straight shaft
- Round handle, length 125mm

**6-641-1**

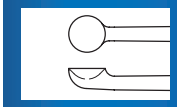
### DK Meyerhoefer Chalazion Curette, 1.5mm cup

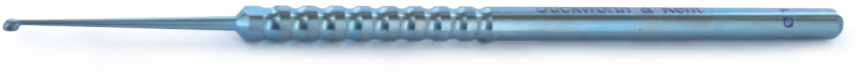


- 1.5mm cup
- Straight shaft
- Round handle, length 125mm

**6-641-2**

### DK Meyerhoefer Chalazion Curette, 2mm cup

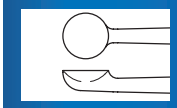




- 2mm cup
- Straight shaft
- Round handle, length 125mm

**6-641-3**

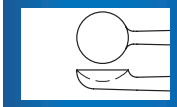
### DK Meyerhoefer Chalazion Curette, 2.5mm cup



- 2.5mm cup
- Straight shaft
- Round handle, length 125mm

**6-641-4**

### DK Meyerhoefer Chalazion Curette, 3mm cup



- 3mm cup
- Straight shaft
- Round handle, length 126mm

## Depressors

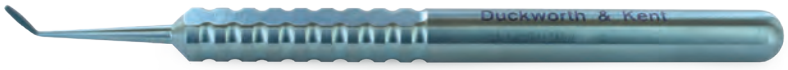
**6-615**

### Tsukahara Scleral Depressor


- Highly polished tip
- Tip length 6mm, maximum diameter 1.2mm
- 55° angled shaft
- Large diameter round handle, length 114mm

## 6-615-1

### Tsukahara Scleral Depressor with Slotted Sides




- Textured tip
- 55° angled shaft
- 3 slots on the right and left of the tip (6 slots overall)
- Tip length 6mm, maximum diameter 1.2mm
- Large diameter round handle, length 114mm

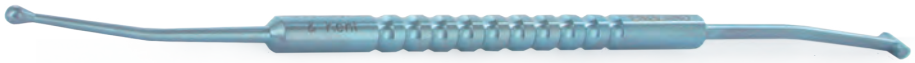
## 6-615-2

### Kurakazu Scleral Depressor 4/6mm

- Polished tip
- Tip length 10mm, diameter 0.8mm
- Tip angled twice at 4mm and 6mm
- Large diameter round handle, length 115mm

## 6-635-2

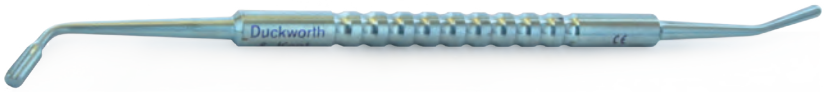
### DK Schocket Double Ended Scleral Depressor



- 2.5mm round and 4.5mm cylinder tips
- Round handle, length 135mm

## 6-635-3

### Koura Double Ended Scleral Depressor




- 2mm round and 2mm cylinder tips
- 2x slits down side, 0.5mm diameter x 6mm length
- Round handle, length 124mm

## 6-635-4

### Nishimura Depressor and Manipulator


- 0.5mm diameter pin 3mm long
- Shaft with pin angled at 40°
- 3mm round highly polished depressor
- Round handle, length 128mm

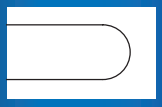
Used for 23 gauge and 25 gauge vitreoretinal surgery to enable the surgeon to cut and remove vitreous body surrounding the instrument cannulas. The pin is inserted into the cannula enabling the surgeon to manipulate the cannula to give better access to treat the vitreous body surrounding the cannula.

# Dissectors

## 6-604

▶ Video Available

### Daya Lamellar Spear

- 1.3mm width curved blade
- 0.15mm thickness at tip
- 35° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 130mm

- 1.8mm width curved blade
- 0.15mm thickness at tip, 1mm at base of shaft
- 35° angled curved shaft, tip to angle length 12mm

## 6-607

### Morlet Lamellar Knife / Dissector

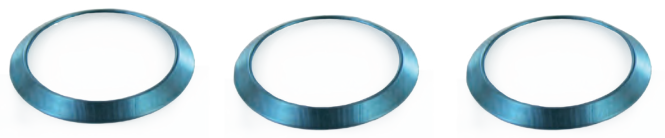
- 0.35mm x 2mm curved
- Angled shafts 12mm tip to curve

- 0.1mm x 1.5mm with sharp edges
- Tip to angle length 3mm
- Round handle, length 111mm

Combined Paufique knife and lamellar corneal dissector. Paufique knife used for starting lamellar corneal dissection and also to extend while peeling back superficial corneal tissue. Also used for undermining the periphery of host lamellar corneal bed, which helps to prevent development of a step at the anterior host donor junction when implanting a donor lamellar that is thicker than excised host lamellar. Paufique knife also used for removing lamellar host tissue down to level of Descemet's membrane. Lamellar corneal dissector is used to create a lamellar corneal plane via a peripheral corneal pocket, or to widely extend a lamellar dissection that has been started with Paufique knife. Designed to separate lamellae and to stay within a plane. Corneal lamellae can be rapidly separated with this instrument without the need for lifting and turning back lamellar flap. After separating the layers, lamellar corneal button may be excised with scissors.

# Scleral Support Rings

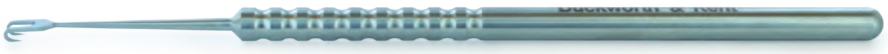
## 6-600

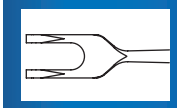


- Three bands supplied as one of each (small, medium, large)
- Small (12mm inside diameter, 15mm outside diameter)
- Medium (13mm inside diameter, 15.5mm outside diameter)
- Large (14mm inside diameter, 16.5mm outside diameter)

# Fixation Hook

## 6-645



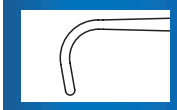


- Sharp tips, 2 point fixation, 2mm separated
- Round handle, length 128mm

# Muscle

## 6-620

### DK Paediatric Muscle Hook

- 0.65mm diameter tip, tip to curve length 4.5mm
- Round handle, length 125mm

Used in inferior oblique surgery.

## 6-625

### Jameson Muscle Hook

- 2mm bulbous tip, tip to curve length 8mm
- Round handle, length 136mm

## 6-626

### Assaf Resection Muscle Hook


- 90° double 10mm adjustable tips, caliper measures 2mm - 14mm
- Flat handle, length 135mm

The Assaf Resection Muscle Hook incorporates a double-armed squint hook with an integrated caliper, thereby allowing controlled and accurate muscle resection. This design allows the surgeon to isolate and hook the extra-ocular muscle with one arm of the instrument. The integrated caliper can be set to define the amount of muscle which needs to be resected. The caliper range is from 2mm to 14mm. The muscle is supported with the other arm of the instrument, without causing undue stretching or tension. A suture can be passed along the groove in the second arm in either an interrupted or conventional fashion.

## 6-626-1
## 6-626-2

### Assaf Resection Muscle Hook (12mm adjustable tips)

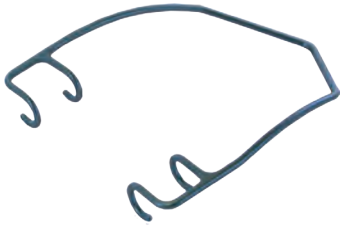
### Assaf Resection Muscle Hook (14mm adjustable tips)


- 90° double 12mm (6-626-1) and 14mm (6-626-2) adjustable tips
- Caliper measures 2mm - 14mm
- Flat handle, length 135mm

The Assaf Resection Muscle Hook incorporates a double-armed squint hook with an integrated caliper, thereby allowing controlled and accurate muscle resection. This design allows the surgeon to isolate and hook the extra-ocular muscle with one arm of the instrument. The integrated caliper can be set to define the amount of muscle which needs to be resected. The caliper range is from 2mm to 14mm. The muscle is supported with the other arm of the instrument, without causing undue stretching or tension. A suture can be passed along the groove in the second arm in either an interrupted or conventional fashion.

## 6-627 Hanasaki Lid Retractor, 7mm

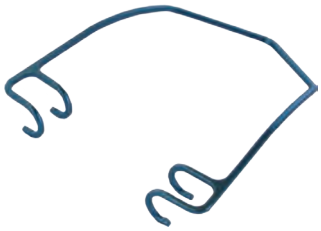
▶Video Available



- Double hooks 7mm apart
- Single piece construction with strong closing pressure
- When at rest the retractors are 20mm apart

Used for retracting the skin and orbicularis muscle during ptosis surgery.

## 6-627-1 Hanasaki Lid Retractor, 5mm



- Double hooks 5mm apart
- Single piece construction with strong closing pressure
- When at rest the retractors are 19mm apart

Used for retracting the skin and orbicularis muscle during ptosis surgery.

## 6-627-4 Adjustable Hanasaki Lid Retractor, 7mm

- Double hooks 7mm apart
- Blades offset by 1mm
- When at rest the retractors are 18mm apart
- Adjustable with thumb screw

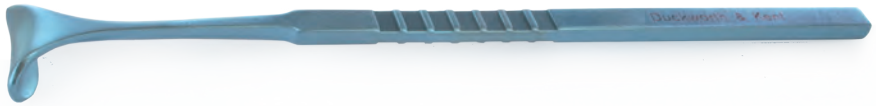
## 6-627-5 Adjustable Hanasaki Lid Retractor, 5mm

- Double hooks 5mm apart
- Blades offset by 1mm
- When at rest the retractors are 18mm apart
- Adjustable with thumb screw

## 6-628 Desmarres Lid Retractor, size 0

- Blade width 11mm
- Flat handle, length 132mm

## 6-629 Rabkin Lid Retractor



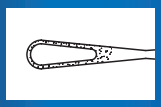
- Blade width 15.5mm
- Flat handle, length 134mm
- Non-reflective finish, textured surface top face

Lower lid retractor designed to function as a broad backstop in carbon dioxide laser transconjunctival blepharoplasty.

## Lens Loop and Nucleus Expressor

**6-610**

### Barrett Modified Lens Loop

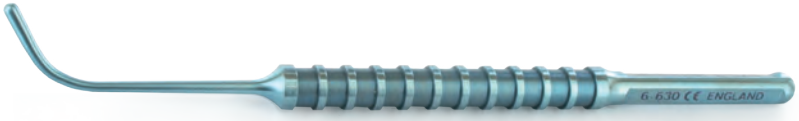


- 4mm x 12mm loop (outside dimension)
- 3mm x 9mm loop (inside dimension)
- Barrett balanced set handle, length 121mm
- Distinctive identification labelling

Smaller diameter allows use in phacoemulsification through a relatively small wound. Lens loop also used to apply pressure superiorly in conjunction with pressure applied inferiorly by Barrett nucleus expressor (6-630) during manual ECCE surgery.

**6-630**

### Barrett Nucleus Expressor

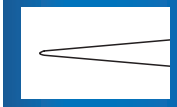



- 2mm bulbous tip, curved shaft
- Barrett balanced set handle, length 120mm
- Distinctive identification labelling

## Lacrimal Probes and Dilators

**6-180**

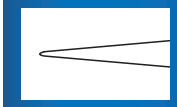
### Lacrimal Dilator



- 0.1mm diameter pointed tip
- 10° inclusive angle
- Round handle, length 122mm

**6-180-1**

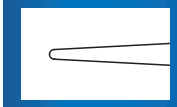
### Lacrimal Dilator



- 0.2mm diameter rounded tip
- 10° inclusive angle
- Round handle, length 122mm

**6-181**

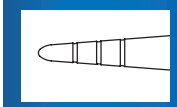
### Lacrimal Dilator



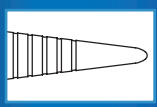
- 0.45mm diameter blunt tip
- Round handle, length 120mm

**6-182-2**

### Otaka Dilator

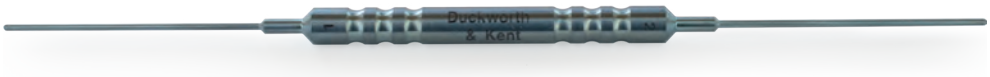


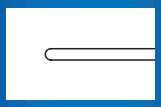
- Bullet shape tip to ease insertion
- Double ended instrument
- Marks at diameters 0.5, 0.6 and 0.7mm
- Round handle, length 103mm
- Marks at diameters 0.8, 0.9, 1.0, 1.1 and 1.2mm



The 6-182-2 Otaka Dilator is used to dilate the lacrimal punctum. Marks on the tips signify specific sizes as the dilator is inserted.

## 6-656 DK Lacrimal Probe



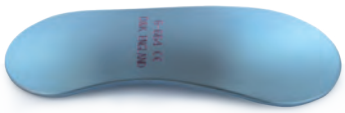
- High quality surface finish over first 5mm of tips
- Overall length 130mm
- Tip sizes: 0000 and 000

| | | | |
|---|---|---|---|
| 6-656-1 | • Tip sizes: 00 and 0 | 6-656-4 | • Tip sizes: 5 and 6 |
| 6-656-2 | • Tip sizes: 1 and 2 | 6-656-5 | • Tip sizes: 7 and 8 |
| 6-656-3 | • Tip sizes: 3 and 4 | | |

# Eye Shields

## 6-664 Otaka Lid Plate

- 23mm wide
- 20mm wide
- Length 55mm



## 6-665 Rabkin Laser Blepharoplasty Plate

- 20mm wide
- 23mm wide
- Highly polished
- Partial matte finish
- Length 111mm
- Non-reflective finish

For use in carbon dioxide laser upper lid and transconjunctival blepharoplasty as well as to retract eyelashes in laser resurfacing of skin.

## 6-667 Rabkin Eye Shield

- 20.5mm wide x 22mm long
- Highly polished
- Supplied individually


Eye Shield with centrally mounted stem to facilitate placement and removal. Protects the eye when carrying out laser blepharoplasty surgery.

## 6-667-2 Egi-Rabkin Large Eye Shield

- 19mm wide x 22mm long
- Highly polished
- Supplied individually

Protects the eye when carrying out laser blepharoplasty surgery.

## 6-667-3 Egi-Rabkin Medium Eye Shield

▶Video Available

- 18.5mm wide x 21mm long
- Highly polished
- Supplied individually


Protects the eye when carrying out laser blepharoplasty surgery.

## 6-667-4 Egi-Rabkin Small Eye Shield

- 18mm wide x 20mm long
- Highly polished
- Supplied individually


Protects the eye when carrying out laser blepharoplasty surgery.

## 6-667-6 Egi-Miyata Medium Eye Shield

- 18.5mm wide x 21mm long
- Highly polished
- Supplied individually

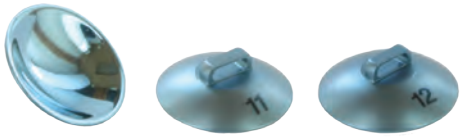

The eye shield has a loop handle rather than a peg. This reduces the height of the eye shield making it less intrusive during surgery. Protects the eye when carrying out laser blepharoplasty surgery.

## 6-667-7 Miyata Eye Shields - 11mm

## 6-667-8 Miyata Eye Shields - 12mm

▶Video Available

- 11mm diameter (6-667-7)
- 12mm diameter (6-667-8)
- Outside matte finish
- Inside highly polished
- Supplied individually




6-667-7 and 6-667-8 sold separately and used in conjunction with the Miyata Laser Protection Forceps ref: 2-660

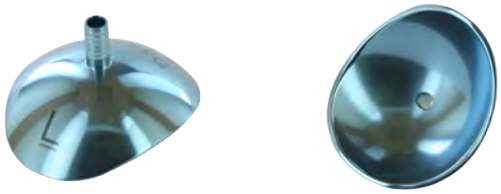
# Irrigating Eye Shields

## 6-670 Irrigating Eye Shield with Luer Lock

- 19mm wide x 22mm long irrigating eye shield
- Irrigating port in centre of eye shield
- Eye shield highly polished
- Luer lock and silicone tubing supplied
- Supplied individually

## 6-670-1 Irrigating Eye Shield

- 19mm wide x 22mm long irrigating eye shield
- Irrigating port in centre of eye shield
- Eye shield highly polished
- Supplied individually



## 6-855

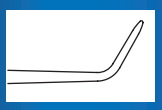
### DK Femto Flap Lifter and Retreatment Spatula

Flap lifter
- 0.4mm diameter, smooth polished surface
- Curved shaft, 12mm length

Retreatment Spatula
- 0.15mm tip diameter, smooth polished surface
- Tip to angle length 3mm
- Round handle, length 123mm

## 6-855-1

### DK Femto Flap Lifter and Retreatment Spatula, Bullet Shaped Tip



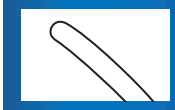
Bullet shaped tip

Flap lifter
- 0.4mm diameter, smooth polished surface
- Curved shaft, 12mm length

Retreatment Spatula
- 0.15mm tip diameter, smooth polished surface
- **Bullet shaped tip**
- Tip to angle length 3mm
- Round handle, length 123mm

## 6-856

### Femto Laser Spatula



- 0.5mm spatula
- Smooth slightly curved shaft with blunt tip
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 118mm

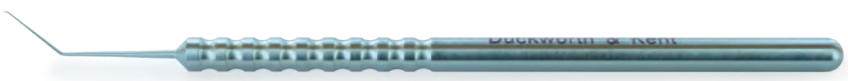
## 6-856-1

### S.Antonio Spatula

- 0.4mm spatula
- Smooth slightly curved shaft with tapered tip
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 118mm

## 6-857

### Stevens Femto Rim Lifter

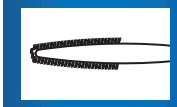


- Sharp bullet shaped tip, 0.5mm long
- 45° angled shaft, tip to angle length 10mm
- Round handle, length 119mm

The sharp tip of the Stevens Femto Rim Lifter is used after the femtosecond laser to sweep along the rim to delineate and open the flap.

6-858

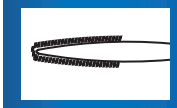
## Stevens Femto Flap Lifter



- Thin curved blade, 1.3mm wide with sharp edges
- 35° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 122mm

6-859

## Stevens Femto Flap Lifter, narrow tip

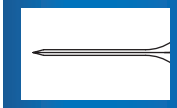


- Thin curved blade with narrow pointed tip, 1.3mm wide, sharp edges
- 35° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 122mm

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.

6-866

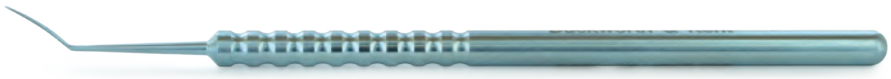
## DK Epithelial Separator / Lifter



- 5mm triangular-shaped tip
- 45° angled shaft
- Round handle, length 115mm

6-870

## Buratto LASIK Oval Spatula

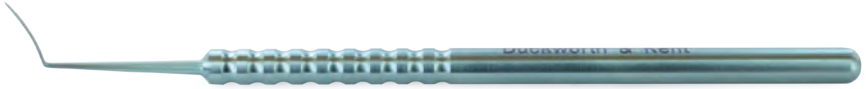


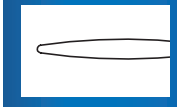
- 1.3mm curved blade
- 35° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 122mm

Designed to raise flap during LASIK.

6-870-1

## Buratto LASIK Oval Spatula



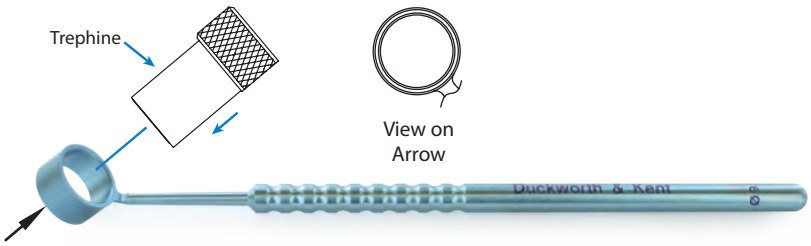


- 1.3mm curved blade
- 60° angled curved shaft, tip to angle length 10.5mm
- Round handle, length 119mm

## DK Epithelial Trephine with Trephine Guide and Alcohol Chamber (order separately)

### DK Trephine Guide and Alcohol Chamber

- Alcohol chamber height 6mm
- Internal diameter 0.5mm larger than incision
- Round handle, length varies from 128mm to 131mm




### DK Epithelial Trephine

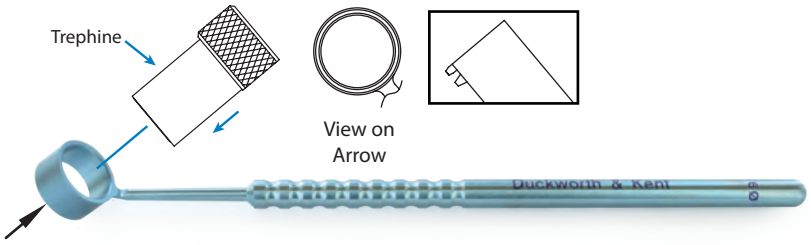
- Trephine creates a 300° incision into the epithelium
- Flat on knurled depicts the hinge of the epithelium flap
- Trephine height 20mm

| Diameter Incision | DK Epithelial Trephine Code | DK Trephine Guide & Alcohol Chamber Code |
|---|---|---|
| 8mm | **6-924** | **6-944** |
| 8.5mm | **6-925** | **6-945** |
| 9mm | **6-926** | **6-946** |
| 9.5mm | **6-927** | **6-947** |
| 10mm | **6-928** | |
| 10.5mm | **6-929** | |
| 11mm | **6-930** | |

## Bates Trephine Guide and Alcohol Chamber with Fixation (order separately)

### Bates Trephine Guide and Alcohol Chamber with Fixation

- Low profile alcohol chamber, height 4mm
- Designed as a guide for the DK Epithelial Trephine
- Internal diameter 0.5mm larger than incision
- Round handle, length varies from 126mm to 127mm




### DK Epithelial Trephine

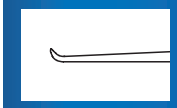
- Trephine creates a 300° incision into the epithelium
- Flat on knurled depicts the hinge of the epithelium flap
- Trephine height 20mm

| Diameter Incision | DK Epithelial Trephine Code | Bates Trephine Guide & Alcohol Chamber Code |
|---|---|---|
| 8mm | **6-924** | **6-944-1** |
| 8.5mm | **6-925** | **6-945-1** |
| 9mm | **6-926** | |
| 9.5mm | **6-927** | |

## Retinal

**6-912**

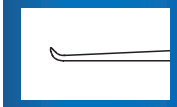
### Giunchiglia Membrane Peeling Spatula, 23 Gauge



- Ultra fine textured tip
- 0.6mm wide, blunt tip curved 45°
- Straight 23 gauge shaft, length 32mm
- Round handle, overall length 128mm

**6-912-1**

### Membrane Peeling Spatula, 23 Gauge



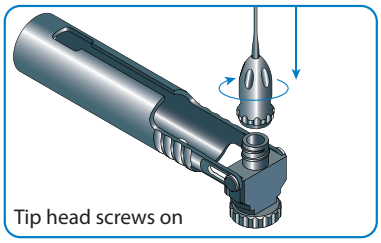
- Fine textured tip
- 0.6mm wide, blunt tip curved 45°
- Straight 23 gauge shaft, length 32mm
- Round handle, overall length 128mm

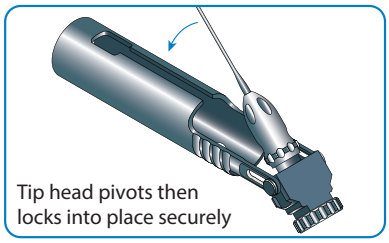
**6-675**

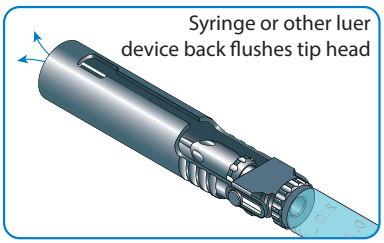
### Protective Cleaning Cover For Interchangeable VR Instrument Heads

- Suitable for all Duckworth & Kent Vitreoretinal Instrument Heads
- Protects the Vitreoretinal detachable heads
- Standard luer fitting for flushing attachment


The Protective Cleaning Cover is used to protect the interchangable Vitreoretinal Heads during cleaning and reprocessing cycles, and can be used instead of the plastic re-usable protective cover that is supplied with every VR Head. A luer flushing adaptor at the back of the cover enables 'back flush' cleaning and disinfection of the VR Head.



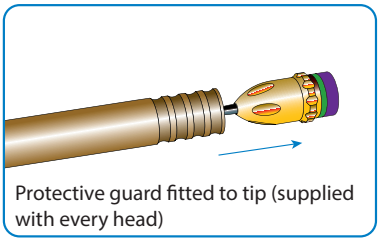



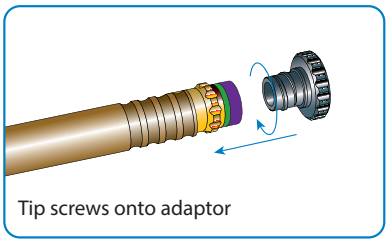

**6-675-1**

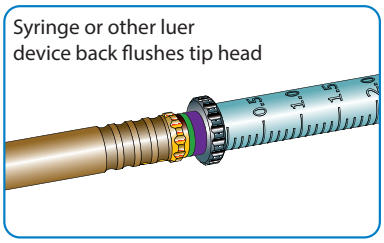
### Small Flushing Adaptor for Interchangeable VR Instrument Heads

- Suitable for all Duckworth & Kent Vitreoretinal Instrument Heads
- Standard luer fitting

The small flushing adaptor is used in conjunction with the plastic re-usable protective cover that is supplied with every Vitreoretinal Head and enables 'back flush' cleaning and disinfection of the VR Head.




**6-676**

### Squeeze Handle for Vitreoretinal Instrument Heads


- Overall Length 92mm (without head)
- Squeeze action handle
- Suitable for all Duckworth & Kent Vitreoretinal Instrument Heads

All Interchangeable Vitreoretinal (VR) Heads are sold separate from the handle. The VR Heads require a handle for operation. ONLY the DK Squeeze Handle for VR Instrument Heads, ref 6-676, is suitable. The VR Heads are screwed onto the thread of DK Squeeze Handle for VR Instrument Heads.

6-190

## Cannula Inserter - 25 Gauge

- Designed to insert Naito Step Cannulas (8-640)
- Length 100mm

6-190-1

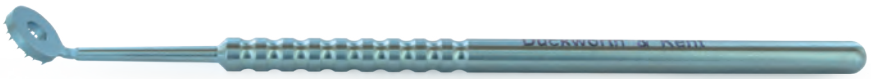
## Cannula Inserter - 23 Gauge

- Designed to assist the insertion of the Instrument Cannulas
- Blunt tip
- Round handle, length 100mm

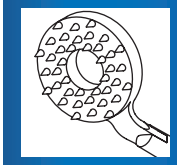
# Disruptor for CXL

6-960

## Daya Disruptor for CXL



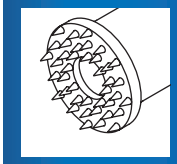
▶Video Available



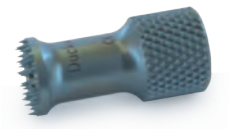
- 40 fine sharp points radially spaced
- 45° angled shaft
- Round handle, length 125mm

6-960-1

## Epithelial Disruptor for CXL



- 40 fine sharp points radially spaced
- Round handle, length 21mm



Corneal Collagen Crosslinking with Riboflavin known as CXL, C3-R and CCL. The procedure involves instilling Riboflavin (one of the B vitamins) into the eye in a specific preparation. Both the Daya Disruptor for CXL (ref 6-960) and Epithelial Disruptor (ref 6-960-1) are used to create tiny pores in the epithelium, through which the Riboflavin can permeate directly into the corneal stroma. Once adequately dosed, the eye is exposed to ultraviolet light radiation. The riboflavin causes new bonds to form across adjacent collagen strands in the stromal layer of the cornea, which recovers and preserves some of the cornea's mechanical strength. This process results in an increase in the rigidity of the cornea. The procedure is suitable for those who have conditions such as Keratoconus or other forms of corneal ectasia.

# Keratometers

6-700

## Maloney Keratometer

Cone-shaped instrument designed to reflect the microscope light in concentric rings on the cornea to detect astigmatism.

# Clamps

6-800

## Barrett LeClip Utility Clamp

- 14mm serrated cross action jaws
- Length 82mm
- Distinctive identification labelling

Replaces need for a mosquito or artery forceps. Holds sutures to drape without piercing plastic drapes.

6-805

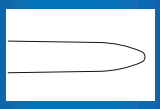
## Bulldog Clip

- 8.5mm serrated cross action jaws
- Length 46mm

## ReLEx® SMILE

### 6-835

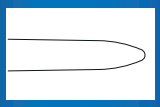
**SMILE Double Ended Dissector**



- 0.4 diameter bullet shaped tip
- 60° angled curved shaft, tip to angle length 9.5mm
- Laser markings on angled shaft at 7mm, 7.5mm and 8mm
- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, length 117mm

### 6-836

**SMILE Double Ended Dissector with spoon tip**



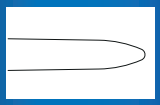
- 1.25 x 0.35mm spoon shaped tip
- 70° angled curved shaft, tip to angle length 9.5mm
- Laser markings on angled shaft at 7mm, 7.5mm and 8mm
- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, length 116mm

### 6-836-1

**SMILE Double Ended Dissector with Taneri spoon tip**

Semi-sharp spoon-shaped tip facilitates lenticule dissection in every direction, including reverse movements.

▶Video Available



- 1.25 x 0.3mm semi-sharp spoon-shaped tip
- 60° angled straight shaft, tip to angle length 8.5mm
- Laser markings on angled shaft at 7mm, 7.5mm and 8mm
- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, length 116mm

### 6-837

**SMILE Lenticule Hook**

- 1mm wide 3 pronged hook tip up and tip down
- 70° angled shaft, tip to angle length 10mm
- Round handle, length 123mm

### 6-839

**SMILE Short Dissector**

▶Video Available

- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, overall length 112mm

REUSABLE TITANIUM INSTRUMENTS

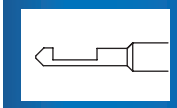

MANUFACTURED IN ENGLAND

# Punches and Inserters

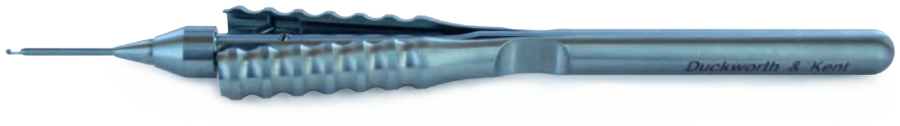
Glaucoma Punches
Inserters

## Glaucoma Punches

**7-101**

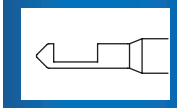


### Khaw Small Descemet's Membrane Punch

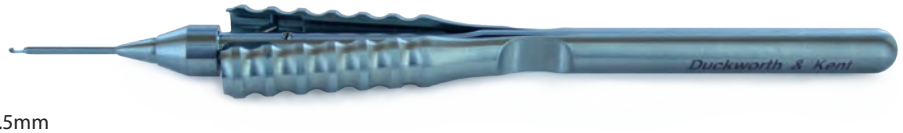



- Designed to punch 0.5mm x 0.3mm
- Particularly suited when small sclerostomy required
- Punch action can be repeated to create larger sclerostomy
- Can be used with a short scleral tunnel incision
- Squeeze action handle activates shaft to punch
- Round squeeze handle, length 117mm

**7-102**

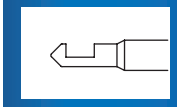


### Khaw Descemet's Membrane Punch

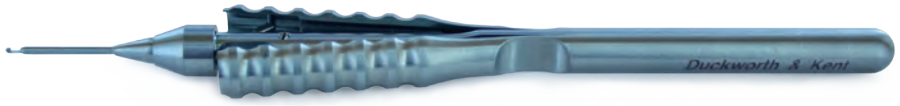



- Designed to punch 0.75mm x 0.5mm
- Can be used with a short scleral tunnel incision
- Squeeze action handle activates shaft to punch
- Round squeeze handle, length 117mm

**7-105**



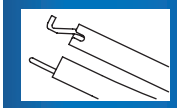
### DK Descemet's Membrane Punch




- Designed to punch 1.2mm x 0.7mm
- Squeeze action handle activates shaft to punch
- Round squeeze handle, length 117mm

## Inserters

**7-810**



### Capsule Tension Ring Delivery System

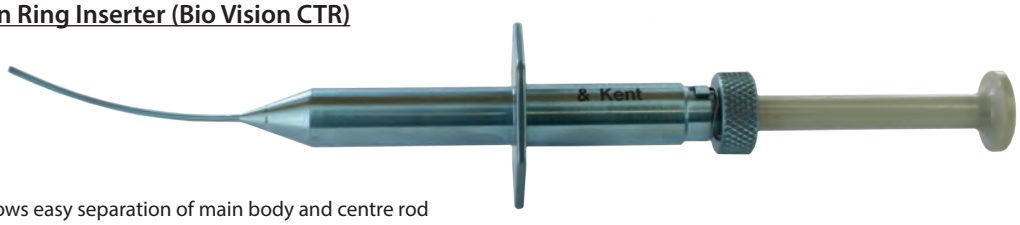

- 7-810 Capsular Tension Ring Delivery System is to be used for implantation of Morcher capsular tension ring
- Injector to insert the capsular tension ring
- Bayonet fitting allows easy separation of main body and centre rod
- Overall length 140mm

**7-811**
**7-812**

### Capsule Tension Ring Inserter (Ophtec CTR)

7-811 & 7-812 - **Not for sale in the United States of America**

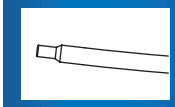
### Capsule Tension Ring Inserter (Bio Vision CTR)



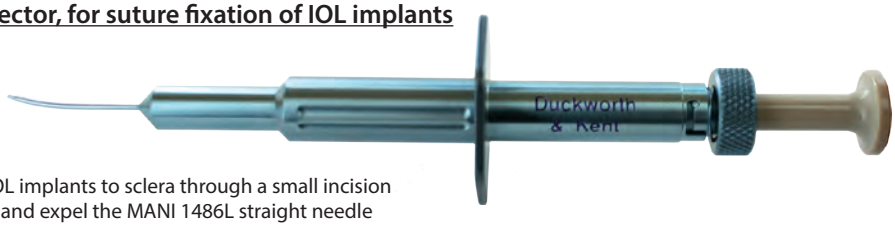

- Bayonet fitting allows easy separation of main body and centre rod
- 7-811 - Injector is to be used for implantation of Ophtec capsule tension rings, Model 275 and Model 276.
- 7-812 - Injector is to be used for implantation of Bio Vision capsule tension rings, Models CTR-11W, CTR-11B / CTR-12W, CTR-12B and CTR-13W, CTR-13B
- Overall length 150mm

## 7-815

Video Available

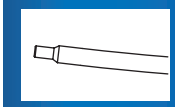


### Ota Intraocular Needle Injector, for suture fixation of IOL implants

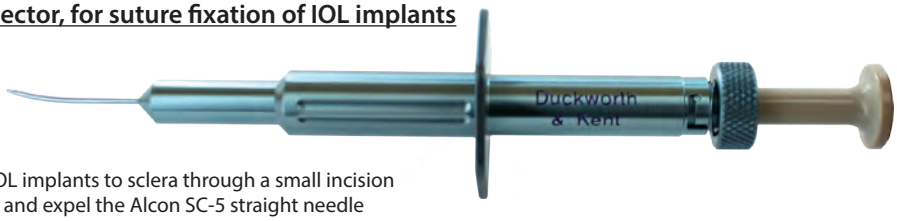



- Designed for suture fixation of IOL implants to sclera through a small incision
- Injector is to be used to position and expel the MANI 1486L straight needle
- 20 gauge curved shaft
- Bayonet fitting allows easy separation of main body and centre rod
- Overall length 130mm

## 7-815-1



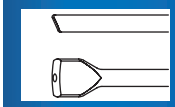
### Ota Intraocular Needle Injector, for suture fixation of IOL implants



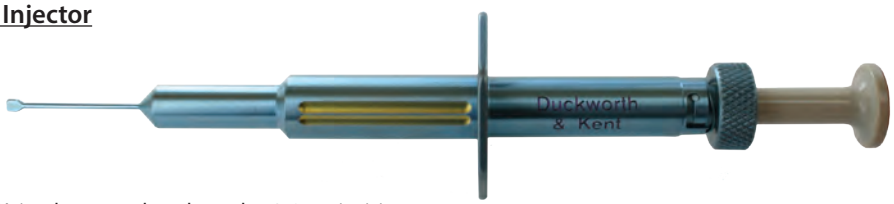

- Designed for suture fixation of IOL implants to sclera through a small incision
- Injector is to be used to position and expel the Alcon SC-5 straight needle
- 20 gauge curved shaft
- Bayonet fitting allows easy separation of main body and centre rod
- Overall length 130mm

## 7-818

Video Available



### Sugiura Ciliary Sulcus Pad Injector




- Designed for suture fixation of IOL implants to sclera through a 2.6mm incision
- Injector is to be used to position and expel the MANI 1486L needle
- Bayonet fitting allows easy separation of main body and centre rod
- Overall length 130mm

In 1999 Dr Sugiura introduced a new technique to help make suturing haptics of intraocular lens into the ciliary sulcus safer and more exact using the 'Ciliary Sulcus Pad'. The original design used a silicone sponge pad that matched the shape of the ciliary sulcus. With the pad positioned at the ciliary sulcus, a needle pushed through the pad would repeatedly and accurately pierce the ciliary sulcus in the correct position.

The Sugiura Ciliary Sulcus Pad Injector (7-818) simplifies the procedure and uses a material that is safe and widely used in ophthalmology.

Since the width of the Ciliary Sulcus Pad is 2mm it can be inserted through a 2.6mm corneal incision. It is introduced into the eye from the opposite side of the location where the needle is inserted. It is moved under the iris and placed at the ciliary sulcus. By pushing the injector plunger the needle passes through the injector pad and the ciliary sulcus. The needle is then pushed out and the injector withdrawn.

REUSABLE TITANIUM INSTRUMENTS

MANUFACTURED IN ENGLAND

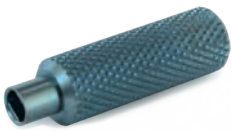
# Irrigation and Aspiration

Phaco Wrenches
Scleral Pins
Cannulas
Infusion / Chamber Maintainers
Irrigation and Aspiration Cannulas
Irrigation and Aspiration Handpieces
Retinal Cannulas
Irrigation and Aspiration

# Phaco Wrenches

## 8-001

### DK Phaco Wrench



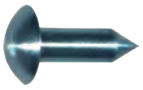
• For use with Alcon fitting needles and all Duckworth & Kent aspirating tips (8-730 range)

# Scleral Pins

## 8-050

### DK Scleral Pin, 20 gauge

• 20 gauge (0.9mm diameter)
• Coloured blue
• Length 3.5mm

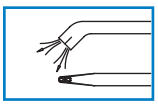


Used in conjunction with the DK Scleral Pin Holding Forceps (2-831)

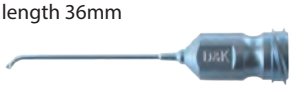
# Cannulas

## 8-601

### Inamura Hyper-Hydrodissection Cannula, 22 Gauge

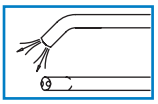


• 22 gauge tube (0.7mm diameter)
• 0.9mm x 0.3mm flattened tip
• Twin jets
• 45° angled tip
• Overall length 36mm



## 8-601-1

### Inamura Hydrodissection Cannula, 60° twin jet angle, 22 Gauge

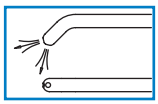


• 22 gauge tube (0.7mm diameter)
• Twin jets, inclusive angle 60°
• 45° angled tip
• Overall length 36mm

## 8-601-2

▶Video Available

### Inamura Multipurpose Cannula, 22 Gauge

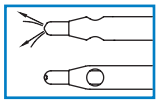


• 22 gauge tube (0.7mm diameter)
• Twin jets, inclusive angle 30°
• 45° angled tip
• Overall length 36mm

The Inamura Multipurpose Cannula is used for: hydrodissection, nucleus rotation, iris reposition –floppy iris syndrome, aspiration of air bubbles, aspiration of liquefied cortex and cleaning the operative field.

## 8-601-3

### Inamura-Nezu Hydrodissection Cannula with Outer Sleeve

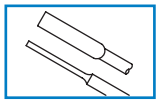


• 18 gauge tube, (1.25mm diameter)
• Twin jets, inclusive angle 30°
• Overall length 38mm

This cannula allows for a quick and more controlled hydrodissection, with a twin jet and outer sleeve which allows any returning fluid to be channelled through the outer sleeve and free flow out through any of the four rear ports. This reduces the chance of iris prolapse and lens subluxation in shallow chamber and small pupil eyes.

## 8-602

### Mackool® Hydrodissection Cannula, 23 Gauge

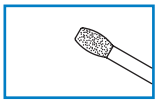


• 23 gauge tube (0.65mm diameter)
• 0.85mm x 0.3mm flattened tip
• 30° angled shaft, tip to angle length 8mm
• Overall length 35mm

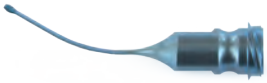
Flat tipped cannula assists in producing a broad, flat stream of fluid for dissection. Safer because it does not require high injection pressure to achieve nucleus loosening.

## 8-603

### Capsule Polishing Cannula



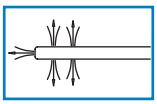
• 23 gauge tube (0.65mm diameter)
• 1.75mm x 1mm olive shaped textured tip
• 30° curved shaft
• Overall length 34mm



Designed for polishing the anterior aspect of the posterior capsule.

## 8-604

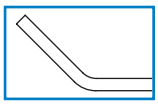
### DK LASIK Cannula, 23 Gauge



- 23 gauge tube (0.65mm diameter)
- 0.2mm diameter hole at tip
- Four 0.4mm diameter holes along side of shaft
- 25° angled shaft, tip to angle length 8mm
- Overall length 30mm

## 8-605

### DK Air Injection Cannula, 23 Gauge



- 23 gauge tube (0.65mm diameter)
- 45° angled shaft, tip to angle length 5mm
- Overall length 35mm

## 8-720

### DK Cannula Handle

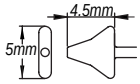
- Specifically made for use with DK cannulas
- Round 8mm diameter handle
- Length 99mm


# Infusion / Chamber Maintainers

## 8-607-2

### Yasuma Anterior Chamber Infusion Cannula

- Triangle tip shape
- Width = 5mm, length = 4.5mm and thickness 1.2mm
- Front irrigating port, 0.8mm diameter
- 19 gauge tube, 45° curved shaft
- Luer fitting

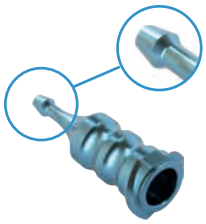



The Yasuma anterior chamber infusion cannula assists in the removal of soft lens material. The cannula tip is designed to seal a 2.5mm to 3mm incision whilst still providing infusion to the anterior chamber, enabling complete irrigation and aspiration of residual lens material with a stable anterior chamber. The cannula tip and shaft are made from one piece titanium with a high quality bore, giving consistent flow rates.

## 8-609

### Luer Lock Fitting

- Luer fitting
- Fits to silicone tubing



## 8-609-1

### Knurled Luer Lock Fitting

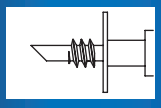
- Knurled luer fitting
- Fits to silicone tubing

## 8-609-2

### Knurled Luer Lock Fitting

- Knurled luer fitting
- Fits to silicone tubing

**8-615-1**

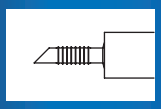


## Rassam Infusion Cannula, 20 Gauge

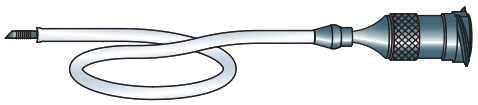
- 20 gauge, thin wall, 0.9mm diameter x 4.2mm length
- Straight shaft, 45° bevelled tip
- 3 x 0.5mm pitched thread
- 5mm plate diameter
- Silicone tubing and luer fitting supplied

Self-retaining twist style mechanism secures cannula. 20 gauge thin wall fits standard sclerostomy incision. Stabilising plate prevents twisting and damaging of intraocular structures. Bevelled opening is marked by notch on plate for accurate positioning of bevel away from lens.

**8-616**

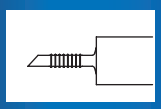


## Ogawa Infusion Cannula, 20 Gauge



- 20 gauge, thin wall, 0.9mm diameter x 4mm length
- Straight shaft, 45° bevelled tip
- Grooves in cannula body ensure non-traumatic securing of cannula
- Silicone tubing and luer fitting supplied

**8-616-1**

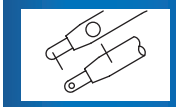


## Ogawa Infusion Cannula, 23 Gauge

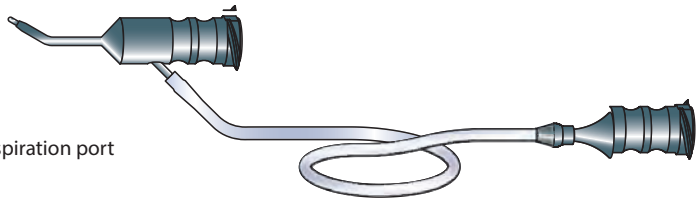
- 23 gauge, thin wall, 0.7mm diameter x 4mm length
- Straight shaft, 45° bevelled tip
- Grooves in cannula body ensure non-traumatic securing of cannula
- Fits through 0.8 to 0.9mm paracentesis opening
- Silicone tubing and luer fitting supplied

# Irrigation / Aspiration Cannulas

**8-635**



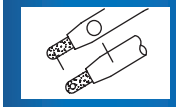
## Ogawa I/A Cannula, 18 Gauge



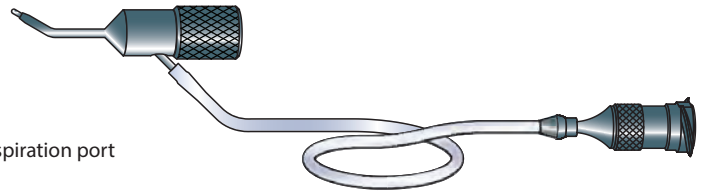
- 18 gauge, thin wall, 0.8mm irrigation port, 0.3mm aspiration port
- 30° angled shaft, tip to angle length 7mm
- Coaxial irrigation and aspiration
- Irrigation through main hub and aspiration through side port
- Silicone tubing and luer fitting supplied

Round shaft seals paracentesis opening, even when cannula is rotated within paracentesis.

**8-635-3**



## Ogawa I/A Cannula, 18 Gauge



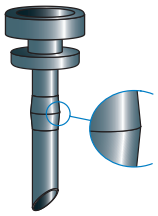
- 18 gauge, thin wall, 0.8mm irrigation port, 0.3mm aspiration port
- 30° angled shaft, tip to angle length 7mm
- Coaxial irrigation and aspiration
- Irrigation through main hub and aspiration through side port
- Silicone tubing and luer fitting supplied
- Knurled hub enhances grasp
- Textured tip

Textured tip allows for capsule polishing after removal of cortex. Round shaft seals paracentesis opening, even when cannula is rotated within paracentesis.

# Retinal Cannulas 23 Gauge

## 8-640-2

### Step Instrument Cannula, 23 Gauge

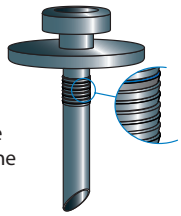


- Cannula for 23 gauge instruments
- 45° bevelled tip, overall length 6mm
- Cannula plug, ref:8-642-1, seals cannula when not in use
- Instrument Cannula is inserted into the sclera with the aid of the Cannula Inserter, ref: 6-190-1

Step prevents the accidental removal of the cannula.

## 8-640-6

### Fibre Optic Cannula, 23 Gauge

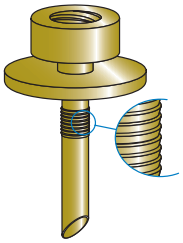


- Cannula for 23 gauge chandelier / fibre optic probes
- Larger footplate stabilises position of fibre optic
- 45° bevelled tip, overall length 6mm
- Cannula Plug, 8-642-1, seals Cannula when not in use
- Instrument Cannula is inserted into the sclera with the aid of the Cannula Inserter, ref: 6-190-1

Step prevents the accidental removal of the cannula.

## 8-640-7

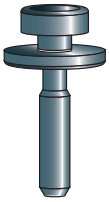
### Nishimura Fibre Optic Cannula, 23 Gauge



- Cannula for 23 gauge chandelier / fibre optic probes
- Larger footplate stabilises position of fibre optic
- 45° bevelled tip, overall length 6.5mm
- Cannula Plug, 8-642-1, seals cannula when not in use
- Instrument Cannula is inserted into the sclera with the aid of the Cannula Inserter, ref: 6-190-1
- Has a unique screw thread fitting for the Nishimura Cannula (ref : 8-641-7)

## 8-640-9

### 23 Gauge Instrument Cannula 20 Gauge Incision

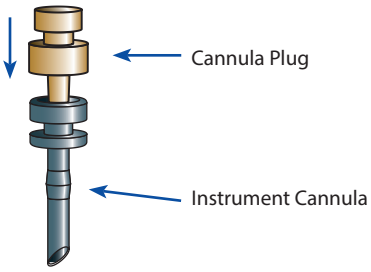


- Cannula for 23 gauge instruments
- Seals 20 gauge incision. The instrument is used after inserting silicone oil through a 20 gauge port
- Overall length 5.6mm
- Cannula Plug, 8-642-1, seals cannula when not in use
- Instrument Cannula is inserted into the sclera with the aid of the Cannula Inserter, ref: 6-190-1

## 8-642-1

### Cannula Plug, 23 Gauge

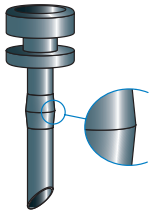
- Seals 23 gauge Instrument Cannula when not in use
- Overall length 7.7mm




# Retinal Cannulas 25 Gauge

## 8-640

### Step Instrument Cannula, 25 Gauge

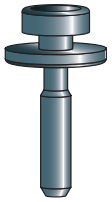


- Cannula for 25 gauge Instruments
- 45° bevelled tip, overall length 6mm
- Cannula Plug, 8-642, seals cannula when not in use
- Instrument Cannula is inserted into the sclera with the aid of the Cannula Inserter, ref: 6-190

Step prevents the accidental removal of the cannula

## 8-640-8

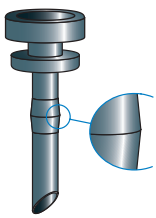
### 25 Gauge Cannula for 20 Gauge incision



- Cannula for 25 gauge Instruments
- Seals 20 gauge Incision
- Overall length 5.6mm
- Cannula Plug, 8-642, seals cannula when not in use
- Instrument Cannula is inserted into the sclera with the aid of the Cannula Inserter, ref: 6-190

## 8-640-10

### Step Instrument Cannula, 25 Gauge

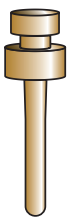


- Cannula for 25 gauge Instruments
- Cannula head diameter enlarged to 2.5mm
- 45° bevelled tip, overall length 6mm
- Cannula plug, ref:8-642, seals cannula when not in use

Step prevents the accidental removal of the cannula.

## 8-642

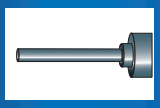
### Cannula Plug, 25 Gauge



- Seals 25 gauge Instrument Cannula when not in use
- Overall length 6.6mm

# Retinal Infusion Cannulas 23 and 25 Gauge

## 8-641



### Infusion Cannula , 25 Gauge

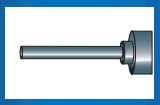
- 25 gauge tip only
- Infusion cannula is inserted into the eye through an instrument cannula
- Silicone tubing and luer fitting supplied

## 8-641-1

### Infusion Cannula Tip, 25 Gauge

- 25 gauge tip only
- Infusion cannula is inserted into the eye through an instrument cannula
- Supplied as cannula tip only
- Overall length 10.5mm

## 8-641-2



### Infusion Cannula , 23 Gauge

- 23 gauge tip only
- Infusion cannula is inserted into the eye through an instrument cannula
- Silicone tubing and luer fitting supplied

## 8-641-3

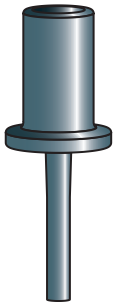
### Infusion Cannula Tip, 23 Gauge

- 23 gauge tip only
- Inserted into the eye through an instrument cannula
- Supplied as cannula tip only
- Overall length 10.5mm

## 8-641-4

### Infusion Cannula Tip, 23 Gauge

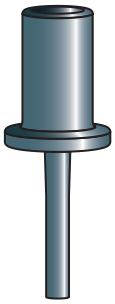
- 23 gauge tip only
- Inserted into the eye through an instrument cannula
- Supplied as cannula tip only
- Overall length 8.5mm



## 8-641-6

### Infusion Cannula Tip, 25 Gauge

- 25 gauge tip only
- Inserted into the eye through an instrument cannula
- Supplied as cannula tip only
- Overall length 8.5mm

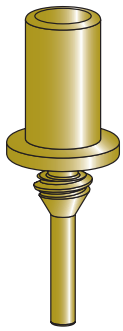


## 8-641-7

### Nishimura Infusion Cannula, 23 Gauge

- 23 gauge tip only
- Infusion Cannula is screwed into the Nishimura Fibre Optic cannula
- Supplied as cannula tip only
- Overall length 8.5mm

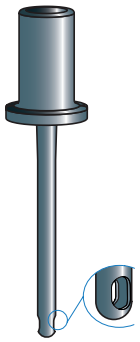
The Nishimura Fibre Optic Cannula (ref: 8-640-7) has a unique screw thread fitting for use with the Nishimura Infusion Cannula.



**8-641-8**

## Infusion Cannula Tip, 23 Gauge

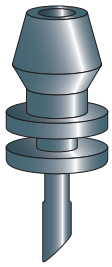
- 23 gauge tip only
- 2 ports on the side of the tube
- Inserted into the eye through an instrument cannula
- Supplied as cannula tip only
- Overall length 11mm



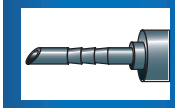
**8-641-9**

## Infusion Cannula Tip, 23 Gauge

- 23 gauge tip only
- 45° bevelled tip
- Inserted into the eye through an instrument cannula
- Supplied as cannula tip only
- Overall length 6.3mm



**8-644**



## Infusion Cannula, 23 Gauge

- 23 gauge tip
- 45° bevelled tip
- Silicone tubing and luer fitting supplied

**8-644-1**

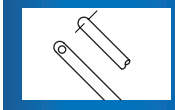
## Infusion Cannula Tip, 23 Gauge

- 23 gauge tip
- 45° bevelled tip
- Overall length 9.5mm
- Supplied as cannula tip only

# Irrigation and Aspiration Handpieces 23 and 25 Gauge

**8-652**

**8-652S**



## DK Irrigation Handpiece, 23 Gauge

## Short Handle Irrigation Handpiece, 23 Gauge

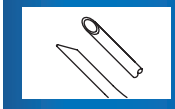
- 23 gauge, 0.65mm tube diameter
- Two 0.4mm side irrigation ports
- Curved shaft, tube length 15mm
- Round handle, length 107mm (8-652)
- Round handle, length 80mm (8-652S)


8-652S

8-652


**8-652-1**

**8-652-1S**



▶ Video Available

## DK Irrigation Handpiece, 23 Gauge

## Short Handle Irrigation Handpiece, 23 Gauge

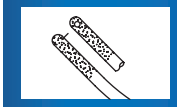
- 23 gauge, 0.65mm tube diameter
- Open end 0.5mm irrigation port with a 30° angled face
- Curved shaft, tube length 11mm
- Round handle, length 102mm (8-652-1)
- Round handle, length 76mm (8-652-1S)


8-652-1S

8-652-1

8-657

8-657S



Video Available

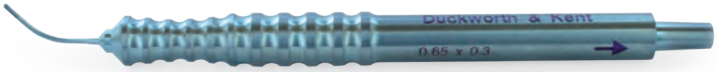
## DK Aspiration Handpiece, 23 Gauge

## Short Handle Aspiration Handpiece, 23 Gauge

- 23 gauge, 0.65mm tube diameter with textured tip
- 0.3mm aspiration port
- Curved shaft, tube length 11mm
- Round handle, length 103mm (8-657)
- Round handle, length 77mm (8-657S)


8-657S

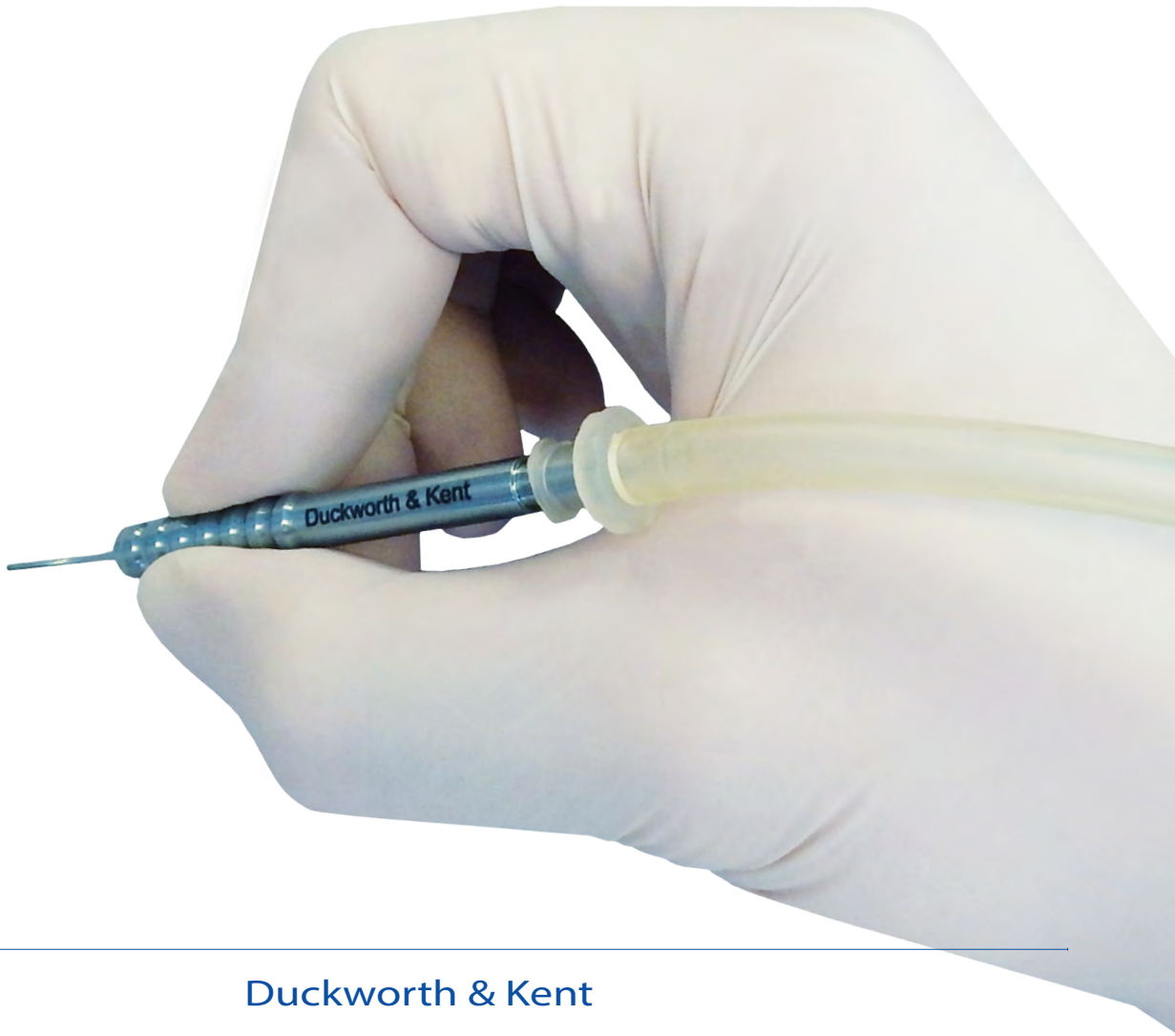
8-657




## New Short Handle Irrigation and Aspiration Handpieces



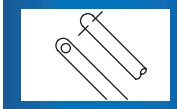
"Improved dexterity &
a significant reduction in weight"



## Irrigation and Aspiration Handpieces 21 Gauge

**8-650**

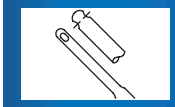
### DK Irrigation Handpiece, 21 Gauge



- 21 gauge, 0.8mm tube diameter
- 0.5mm irrigation ports
- Curved shaft, tube length 15mm
- Round handle, length 107mm


**8-650-1**

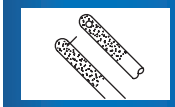
### Avolio Irrigation Handpiece, 21 Gauge



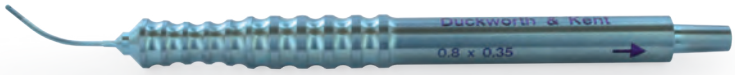
- 21 gauge, 0.8mm tube diameter with flattened tip for first 5mm (0.6mm x 0.95mm)
- Two 0.5mm equivalent side irrigation ports
- Curved shaft, tube length 15mm
- Round handle, length 106mm


**8-655**

### DK Aspiration Handpiece, 21 Gauge

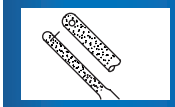


- 21 gauge, 0.8mm tube diameter with textured tip
- 0.35mm aspiration port
- Curved shaft, tube length 15mm
- Round handle, length 107mm

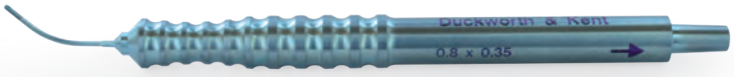



**8-655-1**

### Avolio Aspiration Handpiece, 21 Gauge



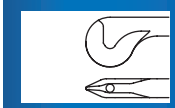
- 21 gauge, 0.8mm tube diameter with flattened textured tip for first 5mm (0.6mm x 0.95mm)
- 0.35mm aspiration port
- Curved shaft, tube length 15mm
- Round handle, length 106mm




## Femto Hydrodissection

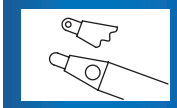
**8-810**

### Rossi Femto Hydrodissection Cannula

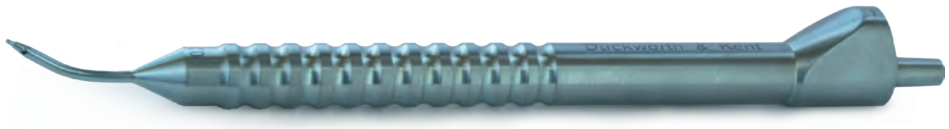


- 0.7mm tube diameter
- One 0.3mm lower irrigation port
- Disc shaped tip
- Curved shaft, angle 45° to tip
- Round handle, length 107mm

## 8-700

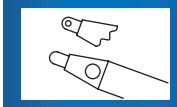


### Barrett I/A Handpiece, 16 Gauge




- 16 gauge, 1.63mm tube diameter
- 2 x 0.8mm irrigation ports, 0.3mm aspiration port
- Curved shaft, tip to handle length 15mm
- Round handle, length 128mm

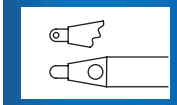
## 8-701



### DK I/A Handpiece (curved shaft), 16 Gauge


- 16 gauge, 1.63mm tube diameter
- 2 x 0.8mm irrigation ports, 0.3mm aspiration port
- Curved shaft, tip to handle length 15mm
- Round handle, length 129mm

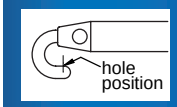
## 8-702



### DK I/A Handpiece (straight shaft), 16 Gauge


- 16 gauge, 1.63mm tube diameter
- 2 x 0.8mm irrigation ports, 0.3mm aspiration port
- Straight shaft, tip to handle length 16mm
- Round handle, length 129mm

## 8-703

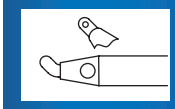



### DK I/A Handpiece (J-shaped tip), 16 Gauge


- 16 gauge, 1.63mm tube diameter
- 2 x 0.8mm irrigation ports, 0.3mm aspiration port
- J-shaped tip
- Straight shaft, tip to handle length 16mm
- Round handle, length 130mm

**8-705**

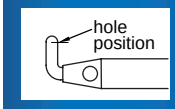
## DK I/A Handpiece (45° angled tip), 16 Gauge




- 16 gauge, 1.63mm tube diameter
- 2x 0.8mm irrigation ports, 0.3mm aspiration port
- 45° angled tip
- Straight shaft, tip to handle length 16mm
- Round handle, length 130mm

**8-706**

## DK I/A Handpiece (90° angled tip), 16 Gauge





- 16 gauge, 1.63mm tube diameter
- 2 x 0.8mm irrigation ports, 0.25mm aspiration port
- 90° angled tip
- Straight shaft, tip to handle length 16mm
- Round handle, length 130mm

**8-711N**

## DK I/A Handpiece, Single Thread

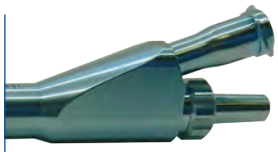
**8-711NL**

## I/A Handpiece with Irrigation Luer Lock

8-711N

- Round handle, length 115mm
- Luer lock fitting on irrigation port - 8-711NL
- Separates for cleaning internal parts
- Single thread at front of handpiece
- Silicone sleeve is pushed onto single thread
- Used with 8-730, 8-731 and 8-732 series DK I/A tips
- I/A tips purchased separately
- Silicone sleeve not included

Luer lock fitting
8-711NL



**8-711-1N**

## DK I/A Handpiece, Multi Thread

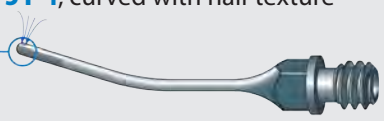
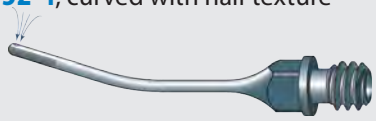
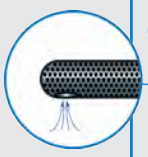
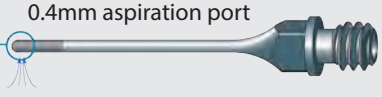
**8-711-1NL**

## I/A Handpiece with Irrigation Luer Lock

8-711-1N

- Round handle, length 115mm
- Luer lock fitting on irrigation port - 8-711-1NL
- Separates for cleaning internal parts
- Multi-thread at front of handpiece
- Silicone sleeve is pushed onto multi-thread
- Used with 8-730, 8-731 and 8-732 series DK I/A tips
- I/A tips purchased separately

Luer lock fitting
8-711-1NL

| 22 Gauge (0.7mm) Tip | | 20 Gauge (0.9mm) Tip |
|---|---|---|
| **0.25mm** Aspiration Port | **0.3mm** Aspiration Port | **0.3mm** Aspiration Port |
| **8-730**, 90° angled  | **8-731**, 90° angled  | **8-732**, 90° angled  |
| **8-730-1**, 45° angled  | **8-731-1**, 45° angled  | **8-732-1**, 45° angled  |
| **8-730-2**, J-shaped  | **8-731-2**, J-shaped  | |
| | **8-731-3**, straight  | **8-732-3**, straight  |
|  | **8-731-4**, curved with half texture  | **8-732-4**, curved with half texture  |
|  | | **8-732-5**, straight with half texture  |
|  | **8-731-6**, straight with texture  | **8-732-6**, straight with texture  |
| |  | **8-732-7**, 45° angled with texture  |
| |  | **8-732-8**, straight with texture<br>0.4mm aspiration port  |

# Demonstrational Videos

We have a continually growing list of videos demonstrating a range of our instruments. To keep up to date with future videos please visit www.duckworth-and-kent.com or subscribe to our YouTube channel duckworthandkent and be notified of future videos.

## Wide Range and Variety

We now have over 40 videos. Featuring current instruments from the following categories: Cataract, Cornea, Glaucoma, Refractive, Vitreoretinal & Veterinary

Video Available

Inamura Capsulorhexis Forceps

Video Available

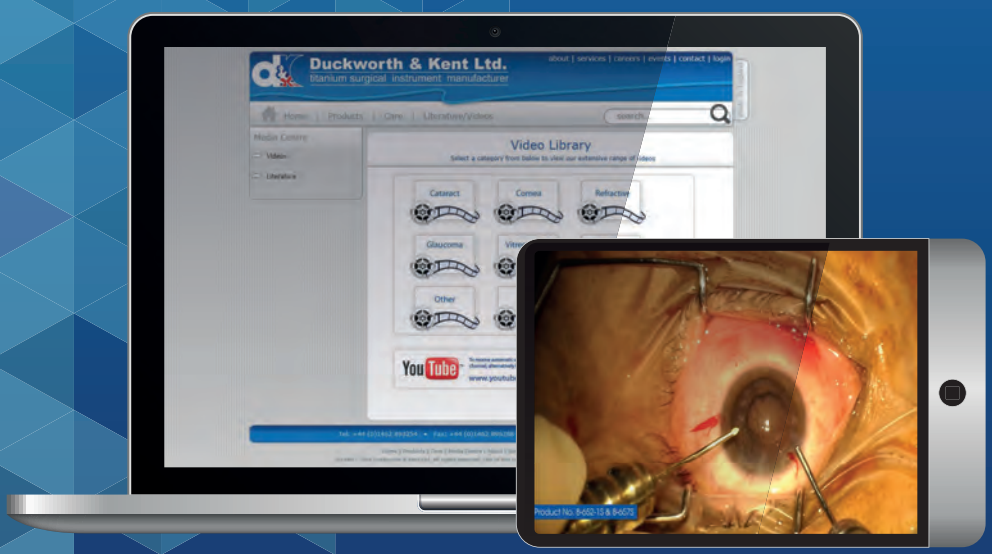
Irrigation & Aspiration Short Handles

Video Available

Inamura Talon Prechopper Forceps

Video Available


Inamura Multipurpose Cannula



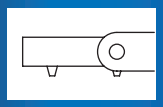
REUSABLE TITANIUM INSTRUMENTS

MANUFACTURED IN ENGLAND

# Fixation Rings, Gauges, Markers and Specula

Calipers
Fixation Rings
Gauges
Markers
Specula

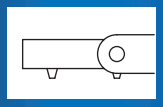
**9-510**



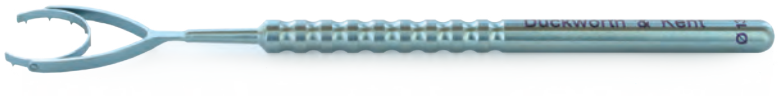
## DK Fine-Thornton Fixation Ring, 13mm

- 3/4 ring, 13mm diameter ring with nine point fixation
- Pivot swivel flat handle, length 105mm

**9-510R**

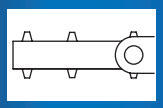


## DK Fine-Thornton Fixation Ring, 13mm

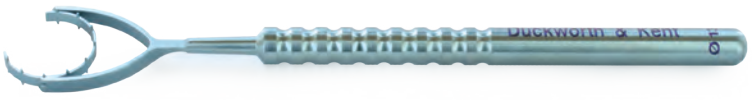


- 3/4 ring, 13mm diameter ring with nine point fixation
- Pivot swivel round handle, length 112mm

**9-515R**

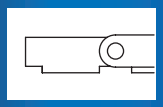


## DK Fine-Thornton Fixation Ring, 13mm

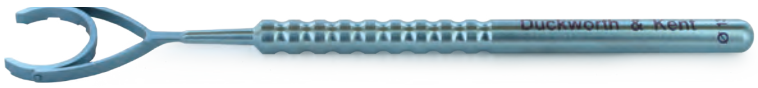


- 3/4 offset ring, 13mm diameter ring dual-sided with nine point fixation
- Pivot swivel round handle, length 114mm

**9-528**

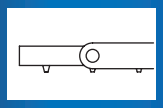


## Shepard-Fine-Thornton Fixation Ring Snow Tyre, 13mm



- 3/4 ring, 13mm diameter ring with snow-tyre pattern fixation
- Pivot swivel round handle, length 112mm

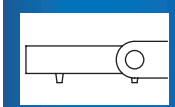
**9-537**



## DK Fine-Thornton Fixation Ring, 14mm


- 3/4 ring, 14mm diameter with nine point fixation
- Pivot swivel flat handle, length 105mm

**9-503**

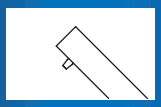


## DK Fine-Thornton Fixation Ring, 16mm

- 3/4 ring, 16mm diameter ring with nine point fixation
- Pivot swivel flat handle, length 105mm

## Fixed Fixation Rings

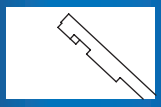
**9-509**



### DK Fine Thornton-Fixation Ring, 13mm

- 3/4 ring, 13mm diameter ring with nine point fixation
- Fixed flat handle, length 114mm

**9-526-2**

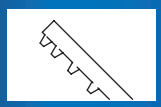


### Fixation Ring

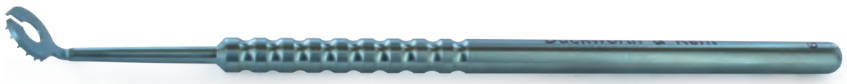

- 3/4 ring, 12mm diameter ring with 'snow-tyre pattern' fixation
- 11mm break in ring
- Round handle, length 96mm

## Fixation Rings and Gauges

**9-513-1**

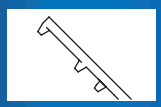


### Fixation Plate



- Fixation Plate stabilises the eye when inserting the instrument cannula (ref: 8-640 range) or infusion cannula tip (ref: 8-641range)
- 8.3mm diameter plate with 15 point fixation
- Slot allows easy removal of fixation plate
- Round handle, length 123mm

**9-513-3**



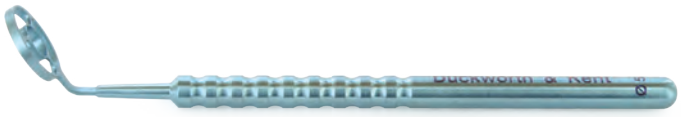
### Fine Fixation Ring with Caliper


- Low profile 3/4 ring, 5mm diameter with 5 point fixation
- Caliper end 3.5mm internal dimension
- Fixed flat handle, length 108mm

The location for placement of the instrument cannula (ref: 8-640 range) from the edge of the limbus is marked by the 3.5mm caliper on the end of the Fixation Ring with Caliper. The fixation ring end is used to fixate and stabilise the eye whilst the needle is used to make the initial incision.

**9-518-1R**
**9-518-2R**

## Round Handle Fujimoto CCC Guide - Ø5.3mm
## Round Handle Fujimoto CCC Guide - Ø5.6mm



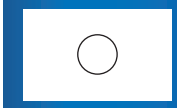
- 12mm diameter outer ring
- Inner capsulorhexis guide 5.3mm and 5.6mm diameter ring
- Smooth surface to mark cornea
- Fixed round handle, length 100mm

**9-518-1**
**9-518-2**

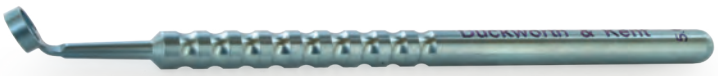
## Fujimoto CCC Guide - Ø5.3mm
## Fujimoto CCC Guide - Ø5.6mm


- 12mm diameter outer ring
- Inner capsulorhexis guide 5.3mm and 5.6mm diameter ring
- Smooth surface to mark cornea
- Fixed flat handle, length 100mm

**9-518-3**



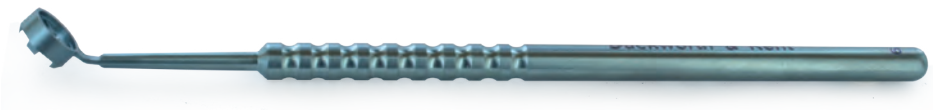
## Ota -Fujimoto 5.6mm CCC Marker with Centre Pointer



- 5.6mm diameter ring, low profile with centre pointer
- Round handle, length 94mm

**9-518-4**

## Donoso Capsulorhexis Marker for Multifocal Intraocular Lens Implants



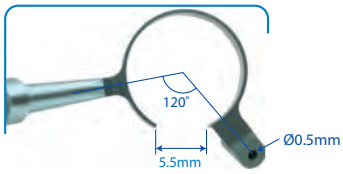
- Designed to assist in creating a well centred and sized 5.5mm capsulorhexis for multifocal lenses
- Use the centre hole for locating the device on the visual axis of the eye
- The surgeon uses their same eye as the patient's eye for locating the device centre hole on the microscope light reflex
- Castellated ring at the tip which marks five segments of a 6.5mm diameter on the cornea, approximating to a 5.5mm diameter capsulorhexis
- The capsulorhexis should be guided just inside the five marks on the cornea
- Tip head angle 50°
- Round handle , length 125mm

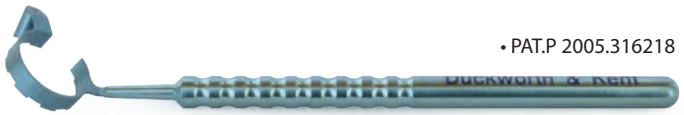
# Injection Guide

**9-544**
**9-544-1**

## Doi-Uematsu Intravitreal Injection Guide - Right Handed

## Doi-Uematsu Intravitreal Injection Guide - Left Handed



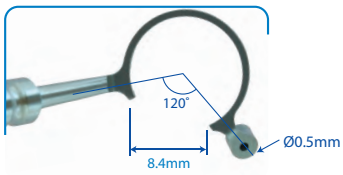
• PAT.P 2005.316218

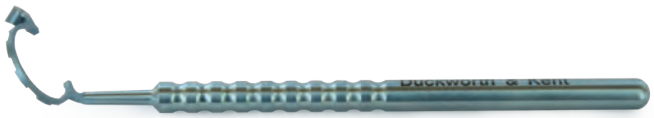
- 0.5mm needle guide hole, suitable for 27 gauge needle or smaller
- 12mm diameter ring with 'snow-tyre pattern' fixation
- Held in the non-dominant hand
- Suitable for right handed surgeon ref: 9-544 / 9-544-2
- Suitable for left handed surgeon ref: 9-544-1 / 9-544-3
- Round handle, length 102mm ref: 9-544 & 9-544-1
- Round handle, length 98mm ref: 9-544-2 & 9-544-3

**9-544-2**
**9-544-3**

## Doi-Uematsu Intravitreal Injection Guide - Right Handed

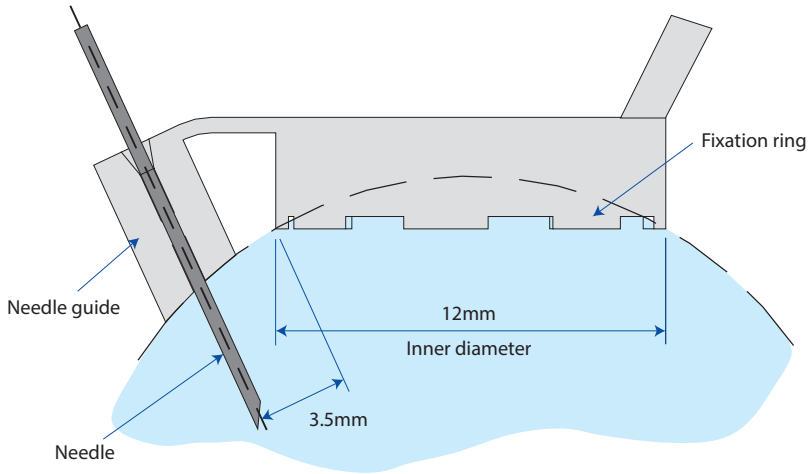
## Doi-Uematsu Intravitreal Injection Guide - Left Handed



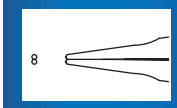
▶Video Available

The Intravitreal Injection Guide facilitates the intravitreal injection procedure, stabilising the eye and needle, whilst accurately positioning the needle to inject drugs into the vitreous cavity. The unique 'snow-tyre pattern', rather than sharp points for fixation, gives firmer more positive control of globe with less discomfort to the patient. The injection needle can be directed accurately without damage to the lens or the retina and eliminates measurement of the distance to pars plana. The break in the fixation ring enables an anterior chamber tap, if required, in order to avoid intraocular pressure spikes.




Side view on the eye with a needle passing through the guide

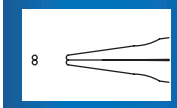
## 9-649



### DK Castroviejo Style Marking Caliper

- 0.25mm x 0.25mm delicate marking tips
- Marks 0mm to 20mm in 0.25mm increments
- Marks from centre of tips
- Adjustable thumb screw
- Standard caliper handle

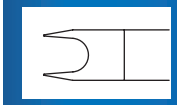
## 9-650



### DK Castroviejo Style Marking Caliper

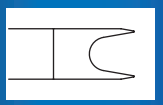
- 0.25mm x 0.25mm delicate marking tips
- Marks 0mm to 15mm in 0.25mm increments
- Marks from centre of tips
- Adjustable thumb screw
- Standard caliper handle

## 9-692
## 9-692-1



### Double Ended Caliper, Marks 3.5mm and 4mm

### Double Ended Caliper, Marks 3.5mm and 4.1mm



- Double ended caliper marks 3.5mm and 4mm (9-692)
- Double ended caliper marks 3.5mm and 4.1mm (9-692-1)
- Marks from centre of caliper tips
- Round handle, length 99mm

# Incision Gauges

## 9-687

### DK Incision Gauge Set

- Set of 7 individual incision gauges, from 1mm to 3mm in 0.1mm increments
- Each individual gauges 3 sizes of 0.1mm increments
- Gauges specifically coloured for easy identification
- Gauges can be ordered individually

## 9-687-1

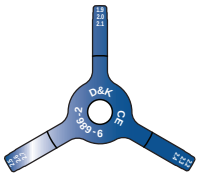
### DK Incision Gauge 1.0, 1.1 and 1.2mm

- Gauges 3 sizes of 0.1mm increments
- 1.0, 1.1 and 1.2mm
- Gauge specifically coloured for easy identification
- Colour: pink


## 9-687-2

### DK Incision Gauge 1.3, 1.4 and 1.5mm

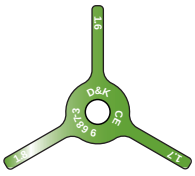
- Gauges 3 sizes of 0.1mm increments
- 1.3, 1.4 and 1.5mm
- Gauge specifically coloured for easy identification
- Colour: dark blue




## 9-687-3

### DK Incision Gauge 1.6, 1.7 and 1.8mm

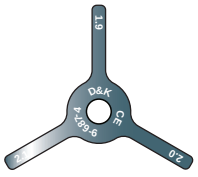
- Gauges 3 sizes of 0.1mm increments
- 1.6, 1.7 and 1.8mm
- Gauge specifically coloured for easy identification
- Colour: light green




## 9-687-4

### DK Incision Gauge 1.9, 2.0 and 2.1mm

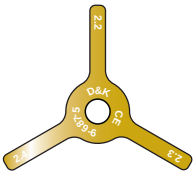
- Gauges 3 sizes of 0.1mm increments
- 1.9, 2.0 and 2.1mm
- Gauge specifically coloured for easy identification
- Colour: blue




## 9-687-5

### DK Incision Gauge 2.2, 2.3 and 2.4mm

- Gauges 3 sizes of 0.1mm increments
- 2.2, 2.3 and 2.4mm
- Gauge specifically coloured for easy identification
- Colour: gold



**9-687-6**

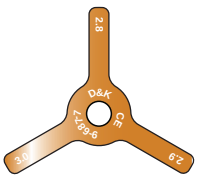
## DK Incision Gauge 2.5, 2.6 and 2.7mm

- Gauges 3 sizes of 0.1mm increments
- 2.5, 2.6 and 2.7mm
- Gauge specifically coloured for easy identification
- Colour: purple


**9-687-7**

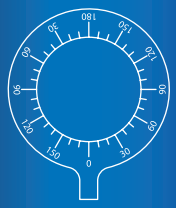
## DK Incision Gauge 2.8, 2.9 and 3.0mm

- Gauges 3 sizes of 0.1mm increments
- 2.8, 2.9 and 3.0mm
- Gauge specifically coloured for easy identification
- Colour: copper




# Mendez Gauges

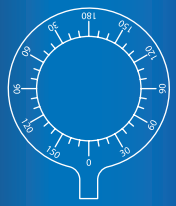
**9-700**



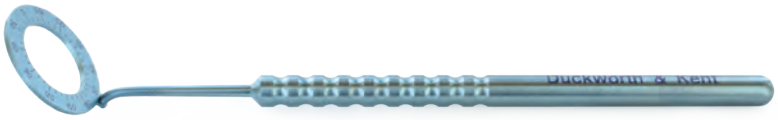
## DK Mendez Degree Gauge


- Marks 0° - 180° in 10° increments x 2
- 12mm internal ring diameter
- Flat handle, length 116mm

**9-700R**

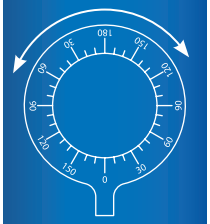


## Mendez Degree Gauge

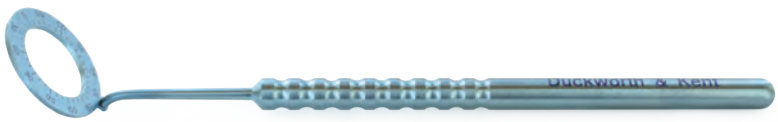



- Marks 0° - 180° in 10° increments x 2
- 12mm internal ring diameter
- Round handle, length 103mm

**9-701R**



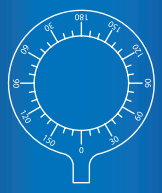
## Friedlander-Mendez Rotating Degree Gauge



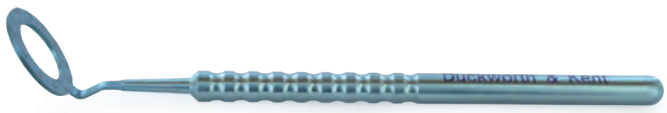

- Marks 0° - 180° in 10° increments x 2
- 12mm internal ring diameter
- Round handle, length 104mm

Gauge rotates with index finger.

**9-705R**



## Wallace Mendez Degree Gauge

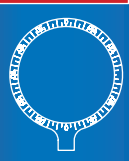


- Measures 0° - 180° in 10° increments x 2
- 12mm internal ring diameter
- Round handle, length 102mm

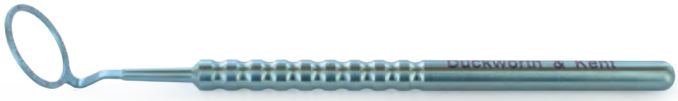
Designed for surgeons familiar with use of a standard phoropter.

**9-705R-1**

▶ Video Available



## Mendez Degree Gauge

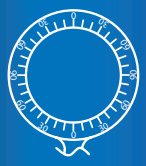


- Marks 0° - 180° in 5° increments x 2
- 12mm internal ring diameter
- 14mm external diameter
- 60° angled handle
- Round handle, length 103mm

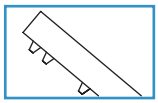
The Mendez Gauge used in conjunction with the 9-729-1 Axis Marker can create marks for the desired axis of Toric IOL alignment.

# LRI Gauges

**9-706**

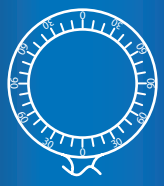


## Packard-Rosen LRI Degree Marker / Fixation, 12mm diameter

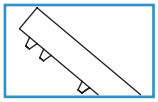


- Marks 0° to 90° in 10° increments x 4
- 12mm internal ring diameter
- 12 point fixation
- Flat handle, length 117mm

**9-706-1**

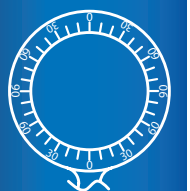


## Packard-Rosen LRI Degree Marker / Fixation, 13mm diameter

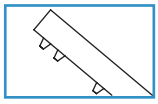


- Marks 0° to 90° in 10° increments x 4
- 13mm internal ring diameter
- 12 point fixation
- Flat handle, length 117mm

**9-706-2**



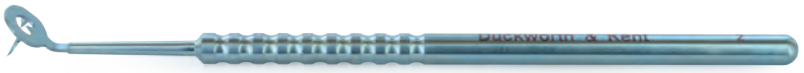
## Packard-Rosen LRI Degree Marker / Fixation, 14mm diameter



- Marks 0° to 90° in 10° increments x 4
- 14mm internal ring diameter
- 12 point fixation
- Flat handle, length 118mm

## 9-729

### DK Axis Marker, 2 blades



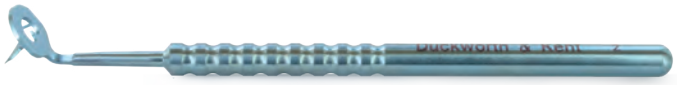
- 2 axial blades
- 4mm inside diameter, 11.6mm outside diameter
- Lowest profile with centre pointer
- Round handle, length 124mm

Use with 9-700 Mendez degree gauge.

## 9-729-1

▶Video Available

### Axis Marker

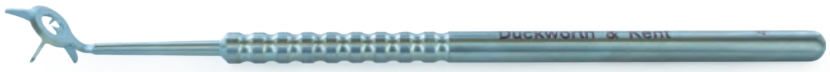


- 2 axial blades
- 4mm inside diameter, 11.6mm outside diameter
- Lowest profile with centre pointer
- Round handle, length 95mm

The axis marker used in conjunction with the 9-705R-1 Mendez Degree Gauge can create marks for the desired axis of Toric IOL alignment.

## 9-730

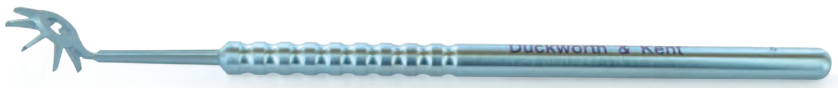
### Thornton Lowest Profile Parallax Free Blade Radial Maker, 4 blades



- 4 radial blades
- 4mm inside diameter, 13mm outside diameter
- Lowest profile with centre pointer
- Round handle, length 128mm

## 9-732

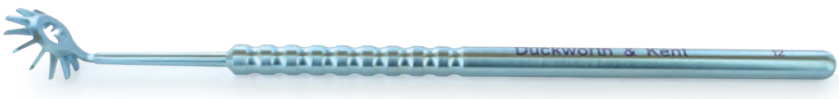
### Thornton Lowest Profile Parallax Free Blade Radial Maker, 8 blades



- 8 radial blades
- 4mm inside diameter, 13mm outside diameter
- Lowest profile with centre pointer
- Round handle, length 128mm

## 9-733

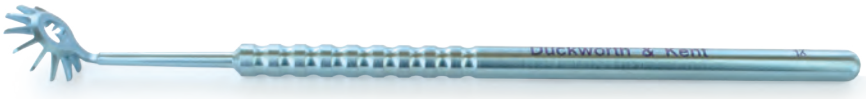
### Thornton Lowest Profile Parallax Free Blade Radial Maker, 12 blades



- 12 radial blades
- 4mm inside diameter, 13mm outside diameter
- Lowest profile with centre pointer
- Round handle, length 128mm

9-734

## DK Lowest Profile Blade Radial Marker, 16 blades



- 16 radial blades
- 5mm inside diameter, 13mm outside diameter
- Lowest profile with centre pointer
- Round handle, length 128mm

9-745

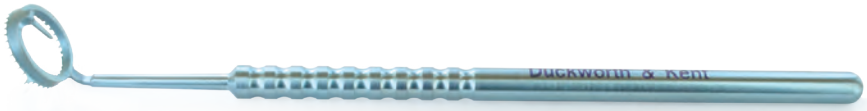
## Thornton 360° Parallax Free Arcuate Astigmatic Keratotomy

- Lowest profile with centre pointer
- 6mm inside diameter, 8mm outside diameter
- Round handle, length 125mm

Improved visualisation, marks at every 10°. Two wings assist with marking axis of astigmatism.

9-746

## Gayton-Thornton 360° Marker



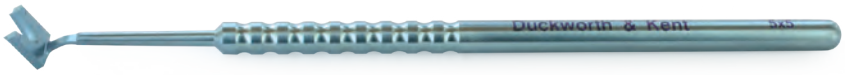
- 9mm inside diameter, 11mm outside diameter
- Round handle, length 128mm

Designed to mark at 9mm and 11mm. Advantageous when doing limbal arcuate incision and astigmatic surgery, both in combination with other intraocular procedures and separately.

# Viscocanalostomy Markers

9-749

## Kearney Parabolic Marker

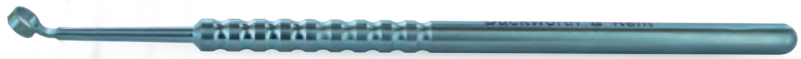


- 5mm x 5mm marker
- 1mm cross hatches
- Round handle, length 125mm

Marker assures consistent sizing, shaping and placement of superficial flap for Viscocanalostomy procedure. Cross hatches are 1mm away from corneal side of marker or 4mm away from apex. Marker is used to outline superficial flap of viscocanalostomy. After conjunctiva is retracted, sclera is examined for collector channels and marker is placed between two channels with cross hatch marks at limbus. Apply with pressure to globe for 15 seconds, remove and examine mark to ensure placement is positioned properly. If placement is not optimal, sclera refills with blood after another 30 seconds or so and marker can be re-applied to correct position. Upon removing marker, outline is followed with mini-diamond blade and sclera is cut down 200 to 250 microns. Marker assures consistent sizing, shaping and placement of superficial flap for viscocanalostomy procedure.

9-778

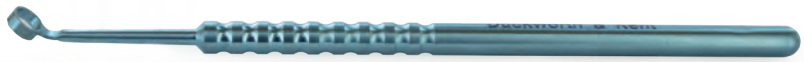
## 5mm DK Ring Marker



- 5mm diameter ring, low profile
- Round handle, length 122mm

9-784

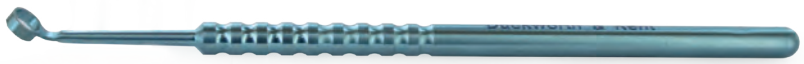
## 5.5mm DK Ring Marker



- 5.5mm diameter ring, low profile
- Round handle, length 123mm

9-779

## 6mm DK Ring Marker



- 6mm diameter ring, low profile
- Round handle, length 123mm

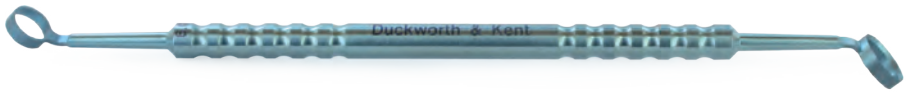
9-715W

## 6mm and 6.5mm Double Ended Ring Marker with Cross Wires

- 6mm and 6.5mm diameter rings
- Low profile with cross wires
- Double ended, markers on both ends for efficiency and economy
- Round handle, length 124mm

9-715-1

## 6mm and 8mm Double Ended Ring Marker



- 6mm and 8mm diameter rings
- Low profile
- Double ended, markers on both ends for efficiency and economy
- Round handle, length 124mm

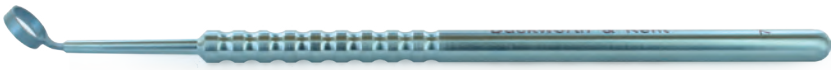
9-716W

## 7mm and 8mm Double Ended Ring Marker with Cross Wires

- 7mm and 8mm diameter rings
- Low profile with cross wires
- Double ended, markers on both ends for efficiency and economy
- Round handle, length 126mm

**9-780**

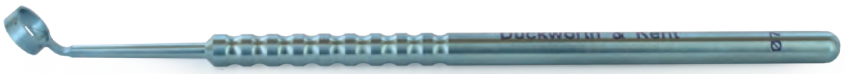
## 7mm DK Ring Marker



- 7mm diameter ring
- Low profile
- Round handle, length 124mm

**9-780W**

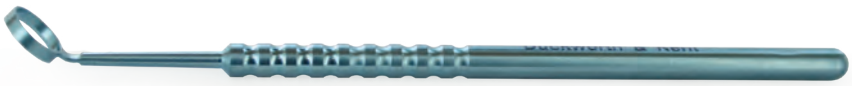
## 7mm DK Ring Marker with Cross Wires



- 7mm diameter ring
- Low profile with cross wires
- Round handle, length 124mm

**9-781**

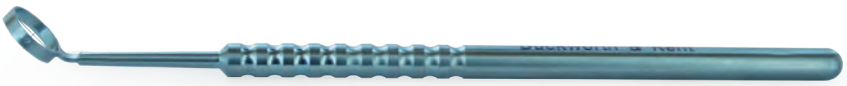
## 8mm DK Ring Marker



- 8mm diameter ring, low profile
- Round handle, length 124mm

**9-781W**

## 8mm DK Ring Marker with Cross Wires



- 8mm diameter ring
- Low profile with cross wires
- Round handle, length 125mm

**9-716W-1**

## 8.5mm and 9mm Double Ended Ring Marker with Cross Wires

- 8.5mm and 9mm diameter rings
- Low profile with cross wires
- Double ended, markers on both ends for efficiency and economy
- Round handle, length 128mm

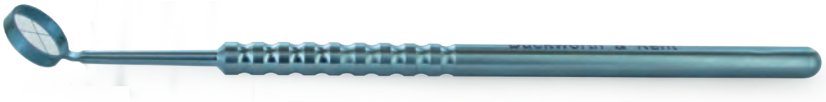
**9-788**

## 9mm DK Ring Marker

- 9mm diameter ring, low profile
- Round handle, length 125mm

**9-789W-1**

## 11mm Low Profile DK Ring Marker with Cross Wires



- 11mm diameter ring
- Low profile with cross wires
- Round handle, length 126mm

## 9-840

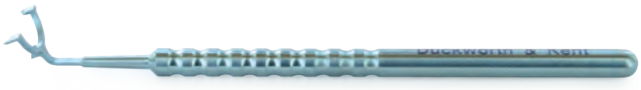
▶Video Available

### Cionni Toric Reference Marker

- 3 blades, radial marks
- 10mm inside diameter, 15mm outside diameter
- 70° angled shaft
- Round handle, length 124mm

## 9-840-1

### Cionni Toric Reference Marker for small eyes



- 3 blades, radial marks
- 8.5mm inside diameter, 12.75mm outside diameter
- 70° angled shaft
- Short round handle, length 98mm

The Cionni Toric Reference Marker for small eyes marks from 8.5mm diameter going out to 12.75mm diameter. The marker is used to mark the horizontal and vertical reference meridians pre-op with the patient in an upright position, as the eye typically rotates when the patient is supine. These meridians will be used to identify the desired meridians for the incision and IOL alignment.

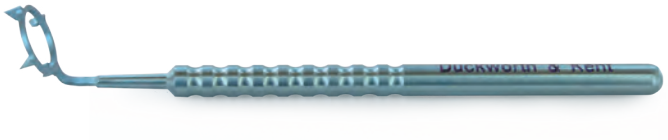
## 9-840-2

### Barrett-Cionni Toric Reference Marker

- 3 blades, radial marks
- 8mm inside diameter, 15mm outside diameter
- 70° angled shaft
- Round handle, length 124mm

## 9-840-3

### Four Blade Toric Reference Marker



- 4 blades, radial marks
- 8.5mm inside diameter, 12.75mm outside diameter
- 70° angled shaft
- Short round handle, length 100mm

The Four Blade Toric Reference Marker marks from 8.5mm diameter going out to 12.75mm diameter. The marker is used to mark the horizontal and vertical reference meridians pre-op with the patient in an upright position, as the eye typically rotates when the patient is supine. These meridians will be used to identify the desired meridians for the incision and IOL alignment.

## 9-841

▶Video Available

### Cionni Toric Axis Marker


- 2 rotating blades, radial marks
- 11mm inside diameter, 15mm outside diameter
- Marks 0° to 180° in 10° increments
- 40° angled shaft
- Flat handle, length 116mm

Marking the incisional and desired axis of IOL alignment can be accomplished using the Cionni Toric Axis Marker (ref:9-841). The line on the top portion of the marker is rotated to set the blades to the desired meridian for the incision or IOL axis. The two blades on the underside of the Axis Marker are then coated with a marking pen and the limbus dried with a sponge. The Axis Marker is then positioned over the eye, lining up the holes at the horizontal and vertical meridians with the previously made limbal reference marks. The Axis Marker is then lowered to touch the eye so that the blades make the desired marks on the limbus.

## 9-841-1

### Cionni Toric Axis Marker for small eyes

- 2 rotating blades, radial marks
- 9.35mm inside diameter, 12.75mm outside diameter
- Marks 0° to 180° in 5° increments
- External gauge diameter 16mm
- 40° angled shaft
- Flat handle, length 116mm

Benefits of Cionni Toric Axis Marker for small eyes, 9-841-1
- Single handed instrument
- Gauge diameter 16mm, suitable for small eyes
- 2 blades rotate within the degree gauge
- Easy to use, measurements every 5 degrees
- Marks at the limbus
- Recommended Reference Marker 9-840-1

9-841-2

## Barrett Toric Axis Marker

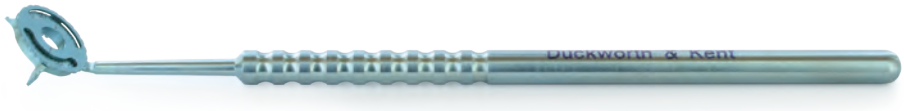

- 2 fixed blades, orientated 90° to handle
- 11mm inside diameter, 15mm outside diameter
- Rotating dial marks 0° to 180° in 10° increments
- External gauge diameter 18mm
- 40° angled shaft
- Flat handle, length 116mm

Designed for surgeons familiar with placing a 2 blade axis markers inside a Mendez gauge. The 2 blades on the Barrett Toric Maker are fixed and the degree gauge scale rotates, so the surgeon relates the blade orientation to the handle.
First, the degree gauge is rotated, lining up the desired meridian for the IOL axis to the lines on the edge of the marker. The two blades on the underside of the Axis Marker are then coated with a marking pen and the limbus dried with a sponge. The Axis Marker is then positioned over the eye, rotating the handle to line up the lines at 0 degrees on the degree gauge with the horizontal meridians previously made by the reference marker. The Axis Marker is then lowered to touch the eye so that the blades make the desired marks on the limbus.

9-841-3

▶Video Available

## R J Mackool™ Toric Axis Marker

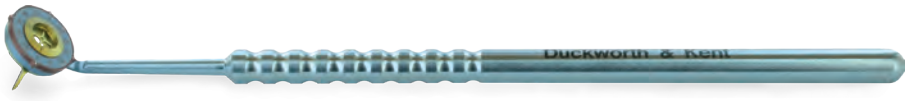



- 2 rotating blades, radial marks
- 9mm inside diameter, 12.8mm outside diameter
- Marks 0° to 180° in 10° increments
- 3 non-marking reference blades
- 45° angled shaft
- Flat handle, length 127mm
- US Patent No. 9,011,470

The R J Mackool™ Toric Axis Marker features an easy to operate pre-settable dial. This permits the technician, operating room nurse or surgeon to precisely set the instrument dial within seconds, as opposed to the cumbersome alternative of turning the instrument over to view the marking blades on the bottom of the instrument, while simultaneously attempting to grasp and align them with the gauge on the top of the instrument. A unique blade design retains dye, permitting the cornea to be marked with the lightest of touch and all blades extend 1mm from the diminutive dial where they are easily observed during the corneal marking. The rounded edges of the marking blades prevent abrasion to the cornea during the marking manoeuvre, whilst their extension well beyond the diminutive central portion of the marker permits the surgeon to see the blades as they are placed at the pre-selected meridian.

9-841-4

## Barrett Dual Axis Toric Marker




- Two dials, one outer and one inner
- Two marking blades
- Marks 0° to 180° in 5° increments
- 45° angled shaft
- Round handle, length 125mm

The Barrett Dual Axis Toric Marker has been developed and designed to be used in conjunction with the toriCAM® app (available on a free download from the app Store on iTunes) to provide optimum axis alignment for the implantation of toric IOL's.

The dual marker allows for compensation and marking of the 'true' horizontal, as determined by the toriCAM® app. The app provides an accurate reference for toric IOL implantation and orientation.

The marker has two dials, an outer to align with the reference axis provided by the app and an inner connected to the marking blades on the underside to mark the recommended toric axis provided by the Toric Calculator.

The outer dial is designed to compensate for any inaccuracies in the horizontal axis marks made on the eye. At each 90 degree point on the dial there are pointers on the outer edge which are aligned with the horizontal corneal limbal marks indicating the estimated horizontal axis.

The toriCAM® app, available from the app store on iTunes, enables the measurement of the angle of the horizontal axis marks made on the eye. The app will then determine and display the actual angle of the marked reference axis and the data will be saved and displayed on the phone with the patient's name and date. The outer dial is then set to this angle to compensate for any inaccuracy of the marks made on the eye.

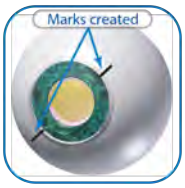
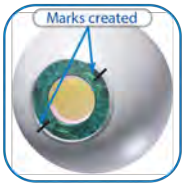
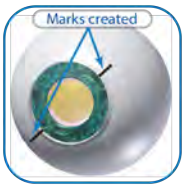
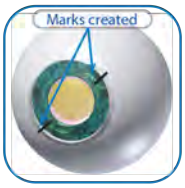
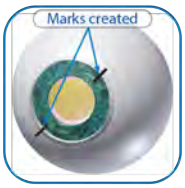
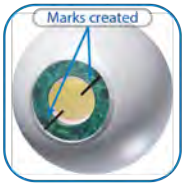
The inner dial is set to the axis required for the correct alignment of the toric lens and the marker is then used to mark the cornea with the correct axis to implant and align a toric lens.

9-842-1

## Axis Marker, Full Ring

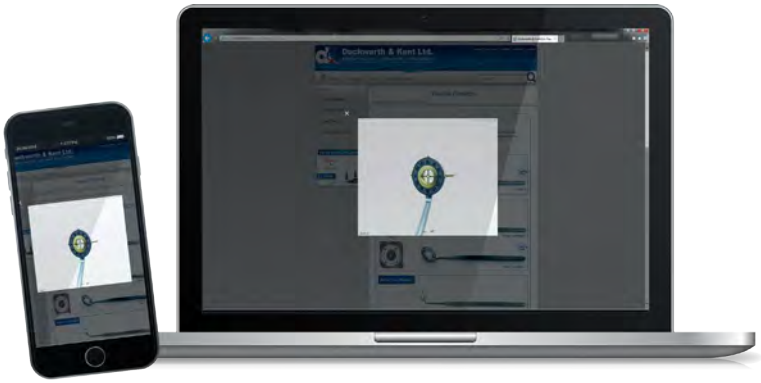

- 2 blades, radial marks
- 10mm inside diameter, 16mm outside diameter
- 45° angled shaft
- Flat handle, length 112mm

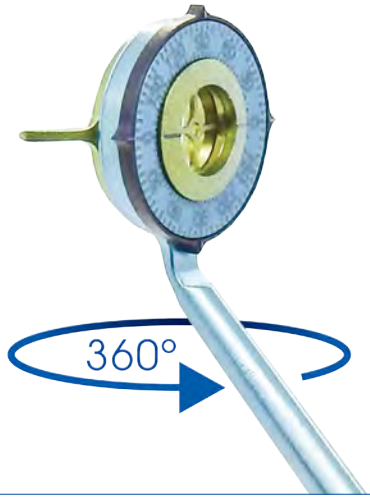
# Toric Markers - comparison chart

| Toric Axis Marker | Marks Created | Description | Recommended Ref. Marker |
|---|---|---|---|
|  9-841 |   | **Cionni Toric Axis Marker, 9-841**<br>- Single handed instrument<br>- Gauge diameter 18mm<br>- 2 blades rotate within the degree gauge<br>- Easy to use, marks every 10 degrees<br>- Marks at the limbus |  9-840 |
|  9-841-1 |   | **Cionni Toric Axis Marker for small eyes, 9-841-1**<br>- Single handed instrument<br>- Gauge diameter 16mm, suitable for small eyes<br>- 2 blades rotate within the degree gauge<br>- Easy to use, marks every 5 degrees<br>- Marks at the limbus |  9-840-1 |
|  9-841-2 |   | **Barrett Toric Axis Marker, 9-841-2**<br>- Single handed instrument<br>- Gauge diameter 18mm<br>- Degree gauge scale rotates, blades are fixed to handle<br>- For surgeons familiar with 2 blade axis marker & Mendez gauge<br>- Easy to use, marks every 10 degrees<br>- Marks at the limbus |  9-840-2 |
|  9-841-3 |   | **R J Mackool™ Toric Axis Marker, 9-841-3**<br>- 2 rotating blades<br>- 9.0mm inside diameter, 12.8mm outside diameter<br>- Marks 0° to 180° in 10° increments<br>- 3 non-marking reference blades<br>- 45° angled shaft<br>- Round handle, length 127mm |  9-840-1 |
|  9-841-4 |   | **Barrett Dual Axis Toric Marker, 9-841-4**<br>- Two dials, one outer and one inner<br>- Two marking blades<br>- Marks 0° to 180° in 5° increments<br>- 45° angled shaft<br>- Round handle, length 125mm<br><br>The marker has two dials, an outer to align with the reference axis provided by the app and an inner connected to the marking blades on the underside to mark the recommended toric axis provided by the Toric Calculator.<br>App Store |  9-840-2 |
|  9-729-1<br>9-705R-1 |   | **Axis Marker, 9-729-1, and Mendez Gauge, 9-705R-1**<br>- Suitable for small eyes, gauge diameter 14mm<br>- Degree gauge marks every 5 degrees<br>- Marks on cornea |  9-840-1 |

**Visit our feature products page on the Duckworth & Kent website and view 360° interactive images for our Toric Marker range**

www.duckworth-and-kent.com/products





## Ota IOL Fixation Markers

**9-845**

Video Available

### Ota Y Marker for the IOL Intrascleral Fixation Technique

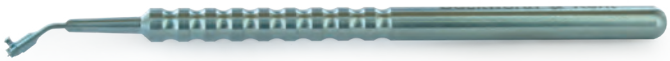
- 4.3mm x 2.8mm marker
- Double Y mark for universal placement
- Reference gauge offsets marker 2mm from limbus
- Round handle, length 96mm

Used in conjunction with the Ota-shaped hook for IOL Intrascleral Fixation Technique (6-464).

**9-845-2**

Video Available

### Ota T Marker



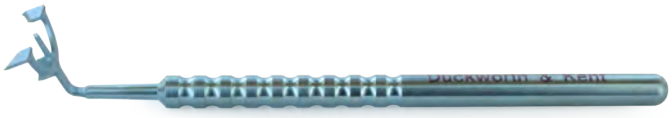
- 1.5mm x 2mm T shaped marker
- Reference arm offsets marker 2mm from limbus
- Round handle, length 96mm

Using this marker reduces the number of sutures needed as there is no scleral flap.
A 24 gauge MVR knife is used to form the scleral tunnel. The incision is then sutured with 9-0 nylon.

**9-846**

Video Available

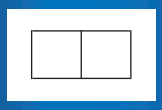
### Ota Reference Marker for the IOL Intrascleral Fixation Technique



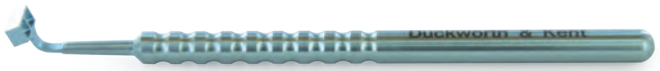
- 3 blades with centre point, radial marks
- 8mm inside diameter, 15mm outside diameter
- 70° angled shaft
- Round handle, length 97mm

**9-847**

Video Available



### Ota L-Pocket Incision Marker

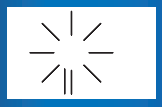


- Marks two squares 3mm x 3mm, side by side
- Round handle, length 94mm

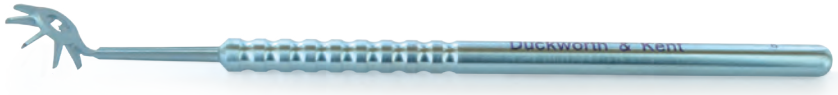
Simple wound creation.
Allows for 6mm PMMA single-piece IOL removal and minimal induced astigmatism.
Allows for acrylic and silicone foldable IOL removal without the necessity to cut or bisect the optic.
Also allows for removal of Soemmerings ring, residual cortex and capsular tension ring (CTR).

## Markers for LASIK & LASEK

**9-853**



### Bennett-Thornton LASIK Marker

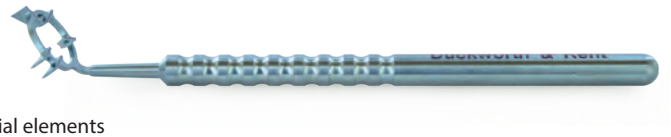


- Lowest profile with eight radial elements and non-radial element
- Round handle, length 128mm

Useful in re-aligning 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 orientate 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 ensures simple and accurate marking on cornea. 45° angulation of head allows for ease and comfort in use.

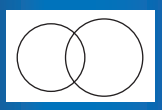
**9-854R**

## DK LASIK Marker



- Lowest profile with three radial elements and two non-radial elements
- Round handle, length 98mm

**9-855**



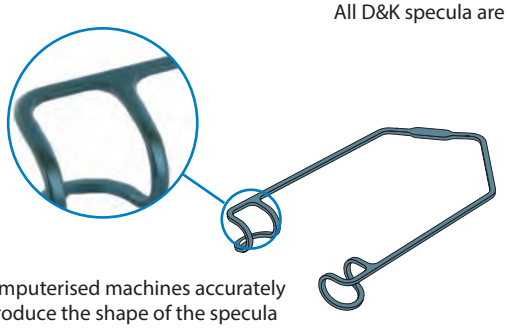
## Gulani LASIK Marker

- 3.5mm and 4mm intersecting circles
- Round handle, length 122mm

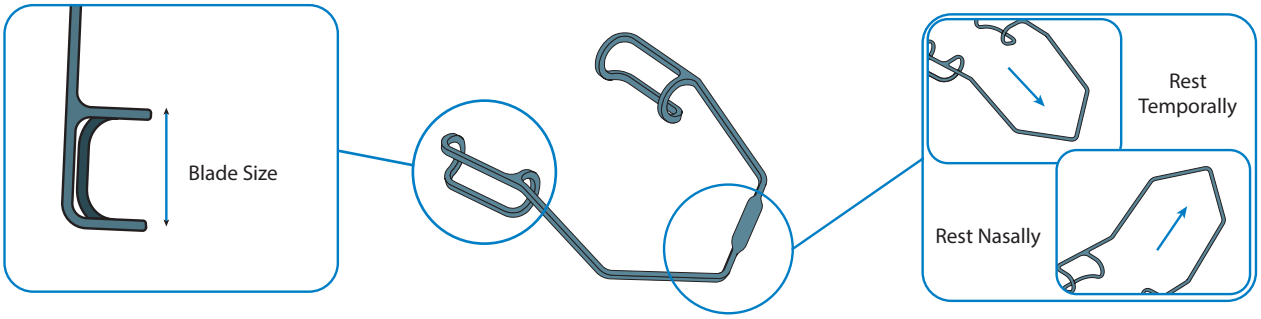
Double circle marker (3.5mm and 4mm) provides pre-determined landmark (four reference points of two intersecting circles) for corneal flap replacement following excimer laser ablation of stromal bed in LASIK. Configurement of arcs of intersecting circles allows correct side-up placement of corneal flap.

# Specula - Single Piece

All D&K specula are made from a single piece of titanium. There are no joints which create weak points in the construction.



Computerised machines accurately produce the shape of the specula blades

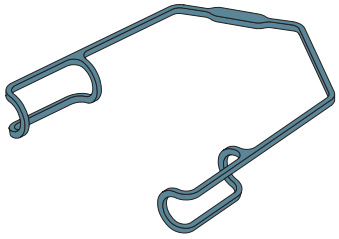




# Specula - Single Piece - Closed Blades

**9-550**

## Barraquer Adult Speculum

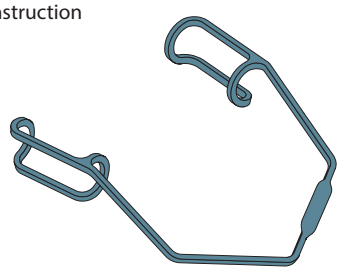
- 14.5mm closed blades
- Single piece construction



**9-551**

## Barraquer Adult Speculum, temporal

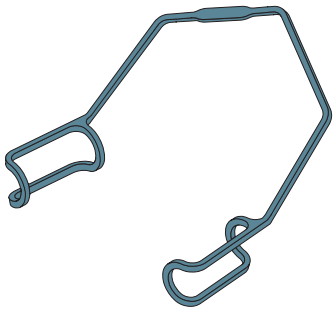
- 14.5mm closed blades
- Angled to rest temporally
- Single piece construction



## 9-552

### Barraquer Adult Speculum, nasal

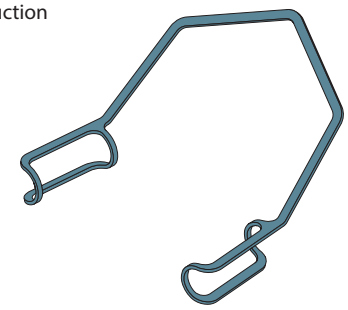
- 14.5mm closed blades
- Angled to rest nasally
- Single piece construction



## 9-552F

### Barraquer Adult Speculum, nasal

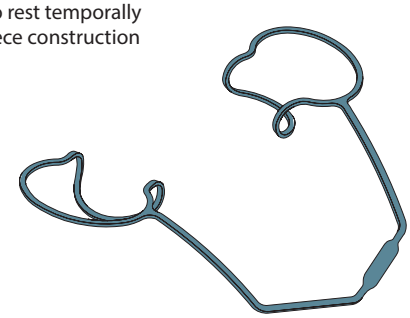
- 14.5mm closed blades, heavy
- Angled to rest nasally
- Single piece construction



## 9-559

### DK Speculum, temporal

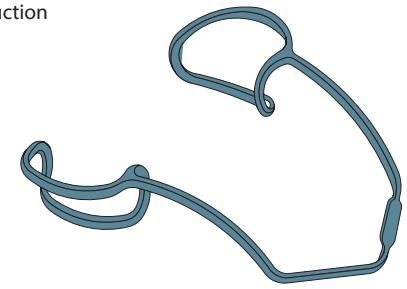
- 14mm large closed blades
- Curved to rest temporally
- Single piece construction



## 9-560

### DK Speculum, temporal

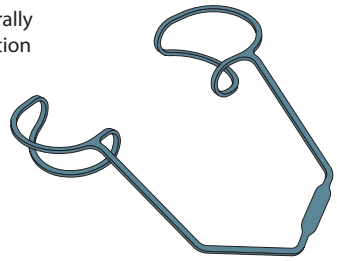
- 14mm closed blades
- Curved to rest temporally
- Single piece construction



## 9-561

### DK Speculum, temporal

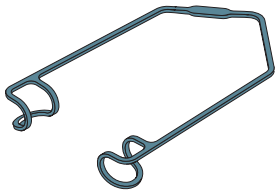
- 14mm closed blades
- Angled to rest temporally
- Single piece construction



## 9-572

### Barraquer Paediatric Speculum

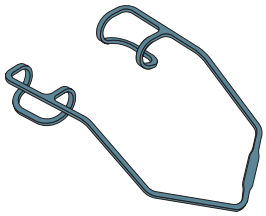
- 6mm closed blades
- Single piece construction



## 9-573

### Barraquer Paediatric Speculum, temporal

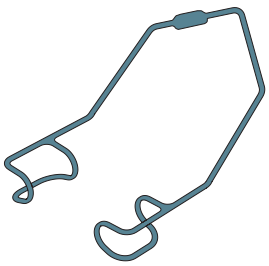
- 9mm closed blades
- Angled to rest temporally
- Single piece construction



## 9-573-1

### Barraquer Paediatric Speculum, nasal

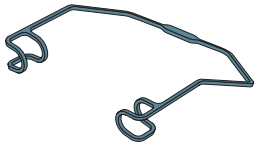
- 9mm closed blades
- Angled to rest nasally
- Single piece construction



## 9-574

### DK Neonatal Speculum, temporal

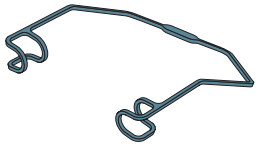
- 4.4mm closed blades
- Angled to rest temporally
- Single piece construction



## 9-574-1

### DK Neonatal Strong Spring Speculum, temporal

- 4.4mm closed blades
- Strong spring closure
- Angled to rest temporally
- Single piece construction

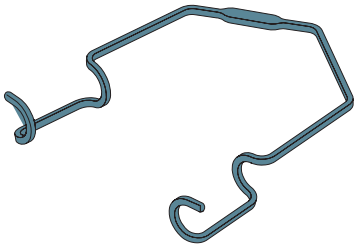


# Specula - Single Piece - Open Blades

## 9-555

### Kratz Barraquer Speculum

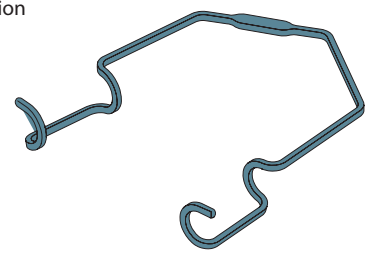
- 14.5mm open blades
- Single piece construction



## 9-555F

### Kratz Barraquer Speculum

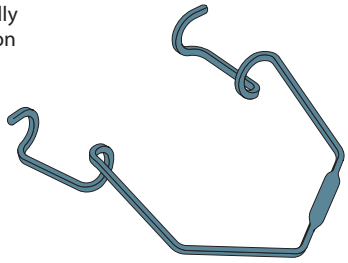
- 14.5mm open blades
- Strong closing pressure
- Single piece construction



## 9-556

### Kratz Barraquer Speculum, temporal

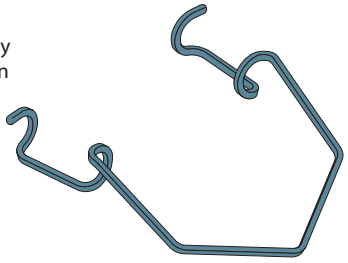
- 14.5mm open blades
- Angled to rest temporally
- Single piece construction



## 9-556F

### Kratz Barraquer Speculum, temporal

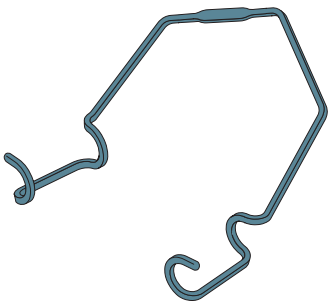
- 14.5mm open blades
- Strong closing pressure
- Angled to rest temporally
- Single piece construction



## 9-557

### Kratz Barraquer Speculum, nasal

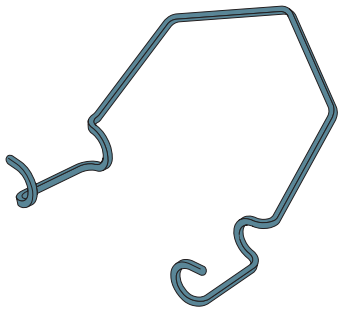
- 14.5mm open blades
- Angled to rest nasally
- Single piece construction



**9-557F**

**Kratz Barraquer Speculum, nasal**

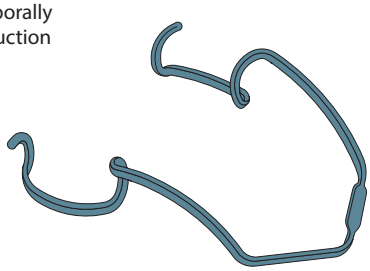
- 14.5mm open blades
- Strong closing pressure
- Angled to rest nasally
- Single piece construction



**9-560-1**

**DK Speculum, temporal**

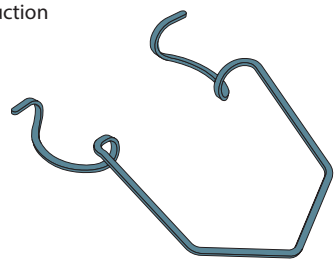
- 14mm open blades
- Curved to rest temporally
- Single piece construction



**9-581F**

**Thornton Comfort Speculum, temporal**

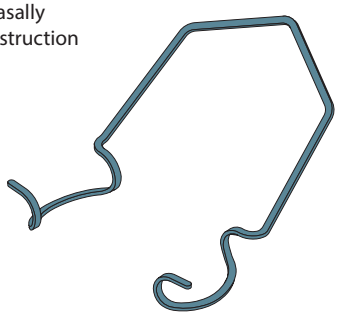
- 15mm open blades
- Angled to rest temporally
- Single piece construction



**9-582F**

**Thornton Comfort Speculum, nasal**

- 15mm open blades
- Angled to rest nasally
- Single piece construction

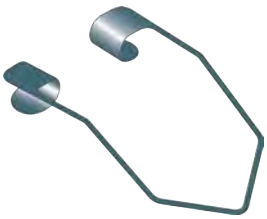


## Specula - Single Piece - Solid Blades

**9-571-1**

**Barraquer Paediatric Speculum, temporal**

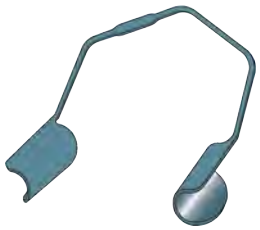
- 6mm solid blades
- Angled to rest temporally
- Single piece construction



**9-565**

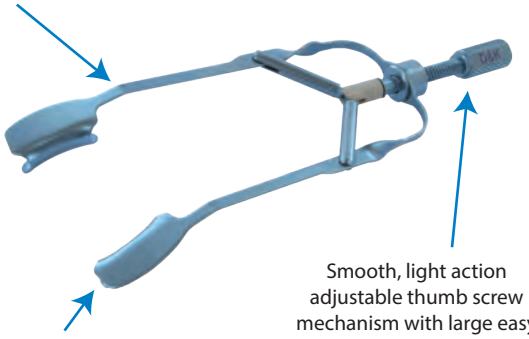
**Bloomberg Solid Blade Speculum, nasal**

- 14.5mm solid blades
- Angled to rest nasally
- Single piece construction



# Specula - Adjustable

Main body is made from a single piece of titanium with added strength in the arms to give a rigid strong construction, which overcomes any attempt by patient to squeeze on the blades.



Blades are reduced in thickness to 0.5mm. This gives added comfort to the patient, yet the strength is not compromised

Smooth, light action adjustable thumb screw mechanism with large easy to grip knurled thimble

Blades slightly open. When closed they enable easy and comfortable entry

Blades can open to 30mm (without closing resistance)

# Specula - Adjustable - Closed Blades

## 9-577-3

### DK Closed Blade Adjustable Paediatric, temporal

- Paediatric 7mm closed blades
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw

## 9-578

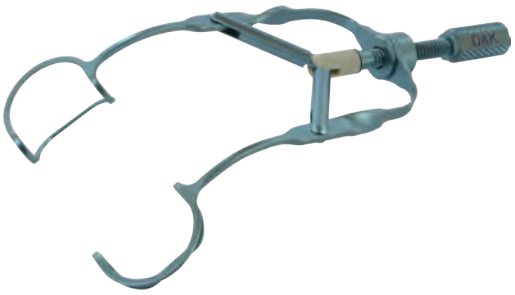
### DK Closed Blade Adjustable Speculum, temporal

- 14.5mm closed blades, 1mm thick
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw

## 9-578-2

### DK Thin Closed Bade Adjustable Speculum, temporal

- 13.5mm closed blades, 0.5mm thick
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw



## 9-578-3

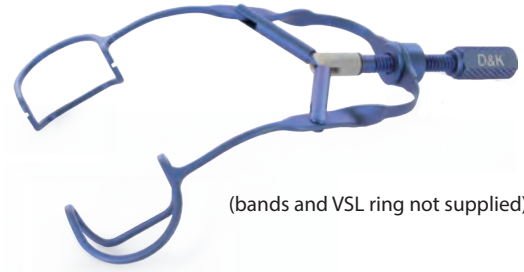
### DK Thin Closed Bade Adjustable Speculum, nasal

- 13.5mm closed blades, 0.5mm thick
- Angled to rest nasally
- Rigid design
- Adjustable with thumb screw

## 9-578-8

### VSL Ring Holding Adjustable Speculum, temporal

- 15mm closed blades
- Curved to rest temporally
- Adjustable with thumb screw
- Grooves in the speculum blades are designed to hold two silicone bands that in turn support the VSL ring



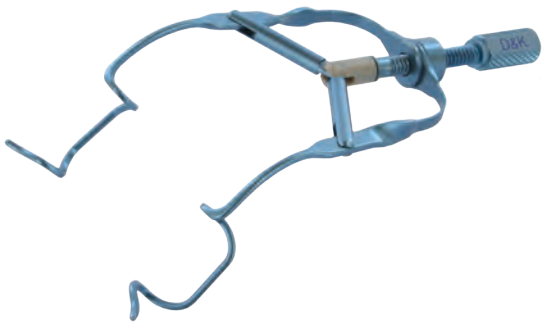

(bands and VSL ring not supplied)

# Specula - Adjustable - Open Blades

## 9-579

### Mackool Open Blade Adjustable Speculum, temporal

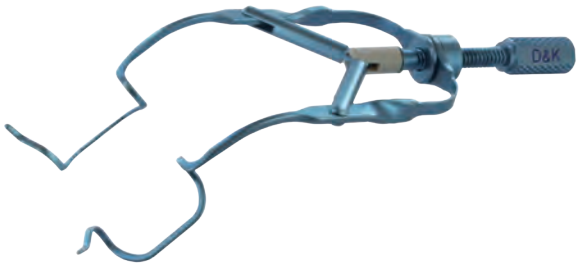
- 13.5mm open blades, 1mm thick
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw




## 9-579-2

### DK Thin Open Blade Adjustable Speculum, temporal

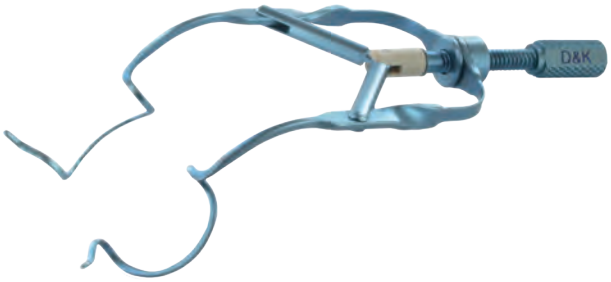
- 13.5mm open blades, 0.5mm thick
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw




## 9-579-6

### DK Open Blade Adjustable Speculum, temporal

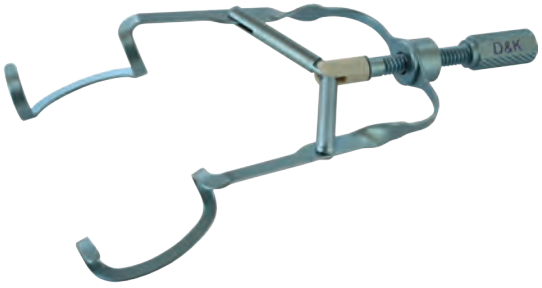
- 14mm open blades
- Fine thin blades provide comfort for the patient
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw



## 9-583

### Williams Adjustable LASIK Speculum, temporal

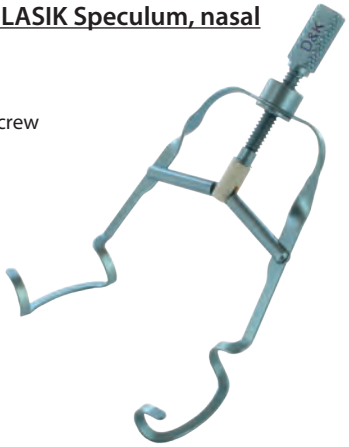
- 18mm open blades
- Angled to rest temporally
- Adjustable with thumb screw




## 9-583-1

### Williams Adjustable LASIK Speculum, nasal

- 18mm open blades
- Angled to rest nasally
- Adjustable with thumb screw




Designed to achieve maximum comfortable exposure of eye for suction ring placement, in order 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.

## 9-585

### Cionni Speculum, nasal

- Ideal for surgeon performing anterior segment procedures from a temporal approach
- Nasal placement provides total access to temporal limbus
- Self-locking mechanism ideal for topical anaesthesia, since it prevents speculum from closing during procedure when patient blinks or squeezes
- Blades 14mm wide

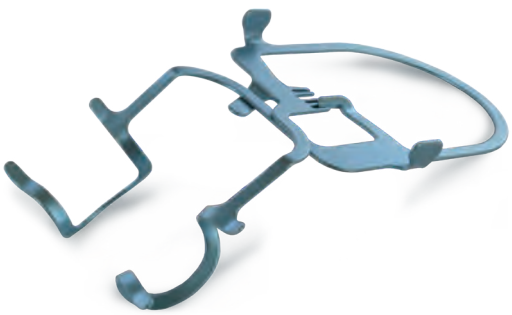
Placed into palpebral fissure with locking mechanism situated nasally. Thumb plates are pressed together to open and capture lids. Crossing arms lock at four positions to accommodate various size palpebral fissures. Pressing thumb plates further releases locking mechanism, allowing surgeon easy removal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

## 9-585-1

### Cionni Femto Speculum, temporal

- Angled to rest temporally
- Self-locking mechanism prevents speculum from closing during procedure when patient blinks or squeezes
- Blades 13.5mm 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
- Suitable for femtosecond laser
- Designed by Dr Cionni specifically for the LenSx® Laser

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.

## 9-588

### Buratto Adjustable Speculum, temporal

- 15.5mm open blades
- Angled to rest temporally
- Adjustable with thumb screw

Lightweight, compact and strong. Maximum exposure allows application of suction ring and microkeratome run.

## 9-588-1

### R J Mackool Femtosecond Laser Speculum, temporal

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

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

## 9-588-2

### Horn Adjustable Femtosecond Laser Speculum

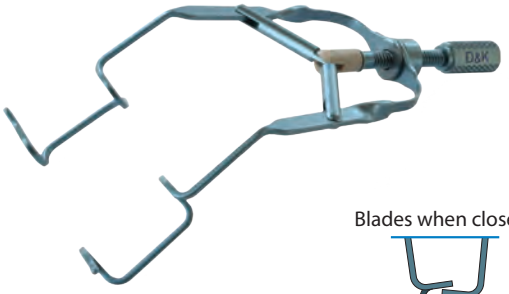
- 15.5mm open blades
- Curved to rest temporally
- Adjustable with thumb screw
- Suitable for femtosecond laser
- Can be used for cataract surgery and LASIK

The Horn Adjustable Femtosecond Laser Speculum has been designed with curved blades to allow clearance for docking devices, allowing exposure centrally without stretching the lids laterally, providing optimal exposure as well as patient comfort.

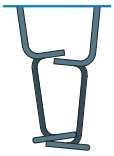
## 9-588-3

### Lieberman Adjustable Speculum, temporal

- 15mm open blades
- Angled to rest temporally
- Adjustable with thumb screw



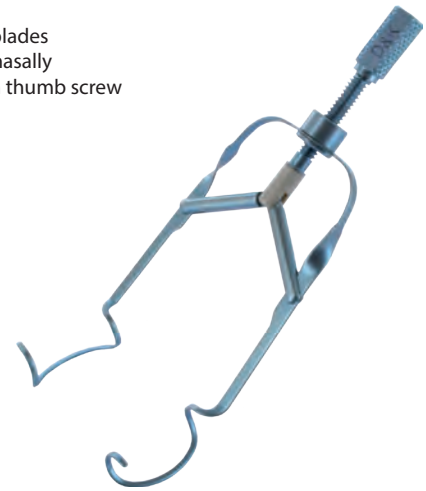
Blades when closed



## 9-589

### Buratto Adjustable Speculum, nasal

- 15.5mm open blades
- Angled to rest nasally
- Adjustable with thumb screw

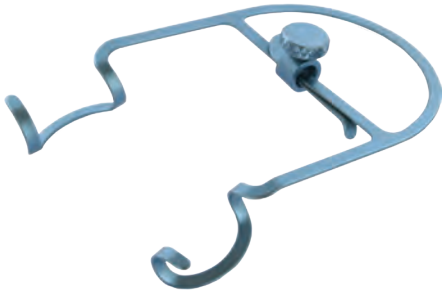


Lightweight, compact and strong. Maximum exposure allows application of suction ring and microkeratome run.

## 9-590

### Barrett Adjustable Speculum, temporal

- 14.5mm open blades
- Angled to rest temporally
- Adjustable with thumb screw



Profile is similar to a wire type speculum; locking mechanism allows speculum to resist eyelid squeezing etc., especially during procedures with topical anaesthesia. Construction of speculum allows maximum exposure, resists eyelid compression and avoids any compression of globe.

## 9-591

### Barrett Adjustable Speculum, nasal

- 14.5mm open blades
- Angled to rest nasally
- Adjustable with thumb screw

## 9-592

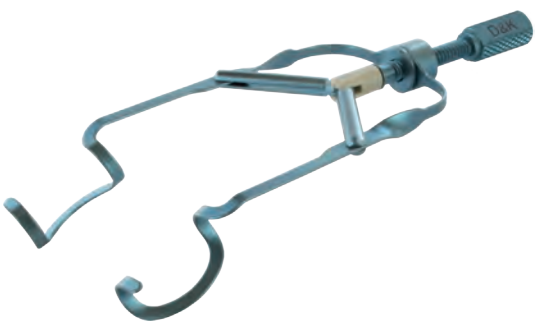
### Barrett Adjustable Speculum

- 14.5mm open blades
- Adjustable with thumb screw

## 9-597-1

### DK Adjustable Speculum, temporal

- 14.5mm open blades
- Angled to rest temporally
- Adjustable with thumb screw



## 9-598-1

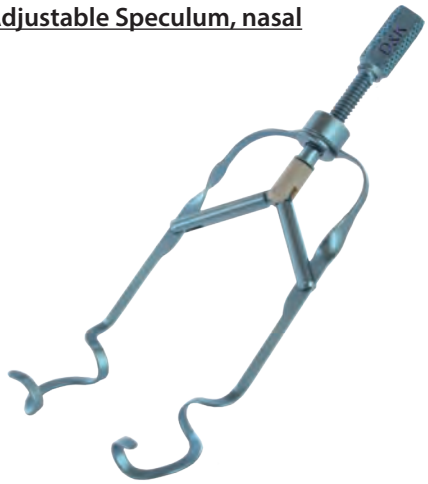
### DK Adjustable Speculum, nasal

- 14.5mm open blades
- Angled to rest nasally
- Adjustable with thumb screw

**9-598-2**

## Koch-Cionni Open Blade Adjustable Speculum, nasal

- 13.5mm open blades
- Angled to rest nasally
- Adjustable with thumb screw

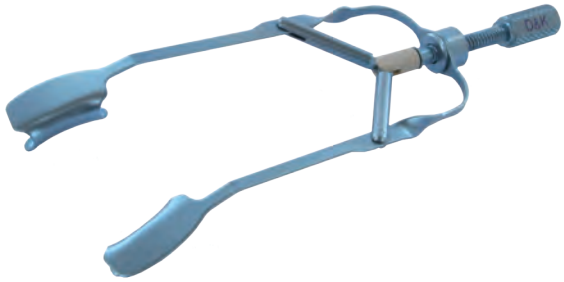


# Specula - Adjustable - Solid Blades

**9-576**

## Khaw Standard Glaucoma Speculum, temporal

- Central indent and side notch to achieve maximal exposure for glaucoma surgery
- Minimal pressure on eye
- 14mm solid blades
- Angled to rest temporally
- Adjustable with thumb screw



**9-576-4**

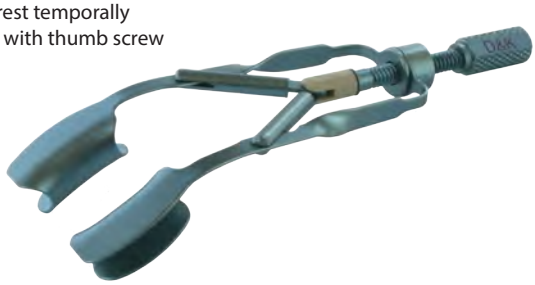
## DK Thin Blade Khaw Standard Glaucoma Speculum, temporal

- Central indent and side notch to achieve maximal exposure for glaucoma surgery
- Minimal pressure on eye
- Thin blade thickness, 0.5mm
- 14.5mm solid blades
- Curved to rest temporally
- Adjustable with thumb screw

**9-576-5**

## Thin Blade Khaw Narrow Glaucoma Speculum, temporal

- Central indent and side notch to achieve maximal exposure for glaucoma surgery
- Minimal pressure on eye
- Thin blade thickness, 0.5mm
- 14.5mm solid blades
- Narrow design for smaller opening eyes
- Angled to rest temporally
- Adjustable with thumb screw



**9-577-4**

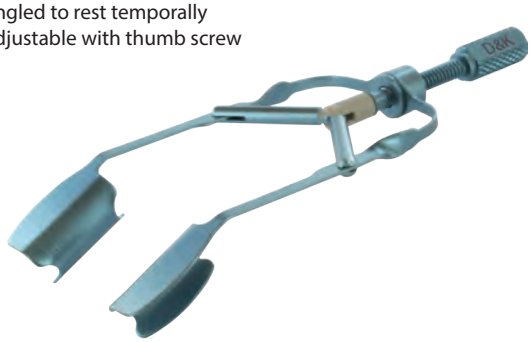
## DK Solid Blade Adjustable Paediatric Speculum, temporal

- Paediatric 9.6mm solid blades
- Curved to rest temporally
- Rigid design
- Adjustable with thumb screw

**9-595**

## Mackool Adjustable Speculum, temporal

- 14.5mm solid blades
- Angled to rest temporally
- Adjustable with thumb screw



Not compressible and therefore eliminates narrowing of palpebral aperture by squeezing during topical anaesthesia cases. Allows maximum enlargement of interpalpebral space, critical for LASIK procedures. Surgeon's access to globe is unimpaired.

**9-597**

## DK Adjustable Speculum, temporal

- 14.5mm solid blades
- Angled to rest temporally
- Adjustable with thumb screw

# Specula - Reversible Adjustable Speculum

**9-599-1**

## Shepard Reversible Speculum

- 14mm closed blades
- Angled to rest temporally or nasally
- Adjustable with thumb screw

**9-599**

## Shepard Reversible Speculum

- 14mm solid blades
- Angled to rest temporally or nasally
- Adjustable with thumb screw

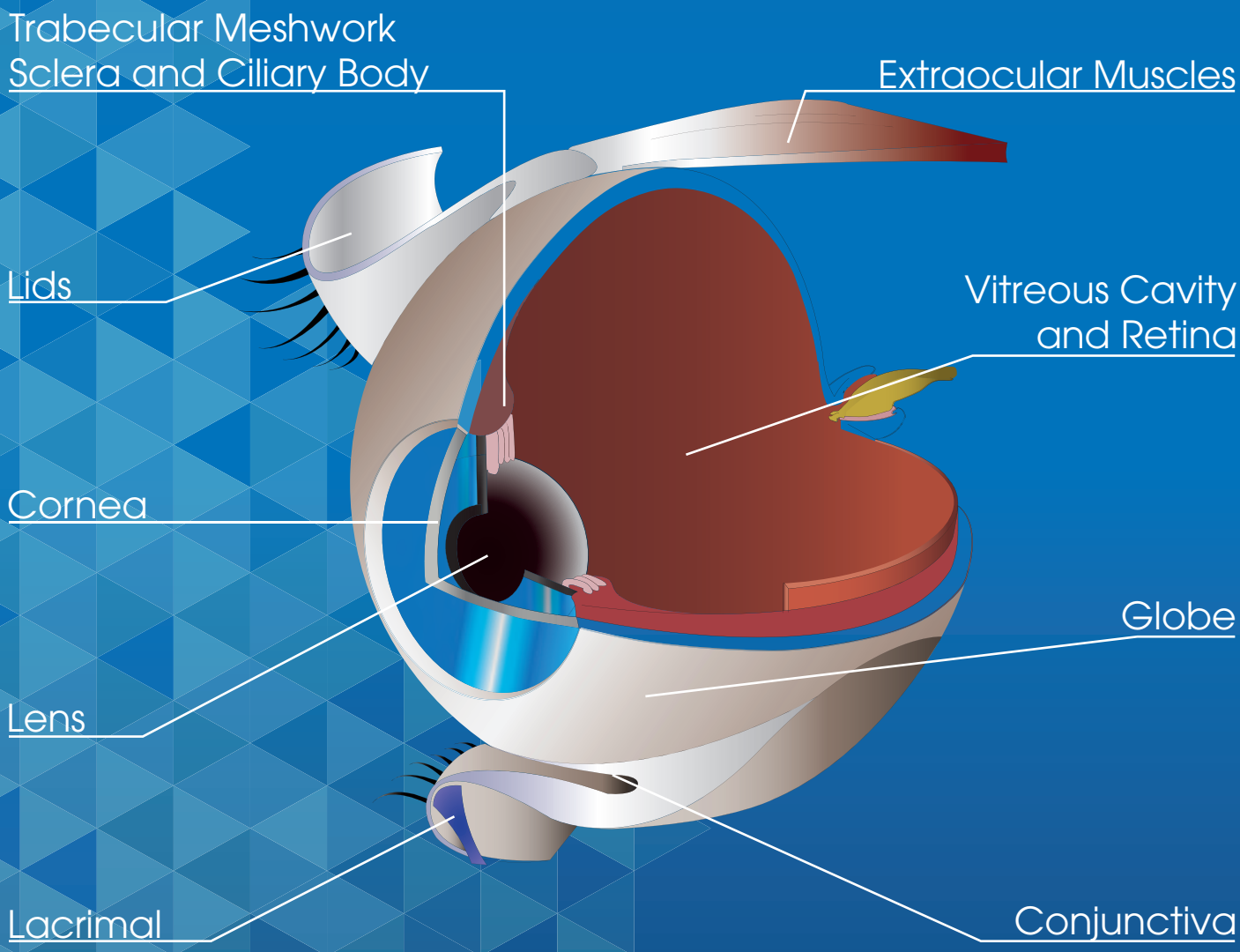
Lightweight, adjustable speculum may be used for both temporal and nasal approach to surgery. Lightweight design avoids excessive pressure on globe.

# Duckworth & Kent Suggested Instrument Sets

## Suggested for You

Duckworth & Kent has produced a selection of suggested instrument sets for a variety of ophthalmic procedures. These are the instruments we recommend.

Visit our website or scan the QR code to view our interactive suggested sets diagram which has been designed to help users easily navigate our complete list of suggested sets.




There are over 25 suggested sets including:

- Suggested Cataract Set
- Suggested Consulting Room / Eye Emergency Set
- Suggested Glaucoma Set
- Suggested IOL Removal Set
- Suggested Lacrimal Set
- Suggested Syringing Set
- Suggested Comprehensive Lid Set

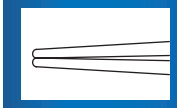
REUSABLE TITANIUM INSTRUMENTS


MANUFACTURED IN ENGLAND

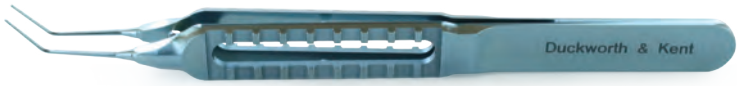
# IOL Loading and Delivery System

IOL Folding
IOL Insertion
IOL Loading
Injectors
Vitrectomy Cannula Systems

**DK7710**



## DK IOL Holding Forceps




- 45° angled shafts, tip to angle length 7mm
- Highly polished inner jaw surfaces
- Flat handle, length 114mm

Highly polished inner jaw surfaces protect from scratching. Designed specifically for AcrySof IOL implant approved by Alcon.

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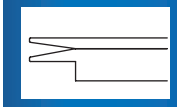
**DK7717**

▶ Video Available



## DK Lens Loading Forceps

- For loading AcrySof IOL into the MONARCH II and III cartridges
- Highly polished tips protect from scratching the lens surface
- 8mm diameter round handle, length 122mm

The DK7717 Lens Loading Forceps are used to the load the Alcon AcrySof IOL into the MONARCH II and III cartridges. To ensure a successful IOL delivery and implantation, proper loading of the IOL into the cartridge is essential.

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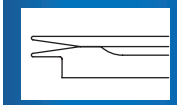
**DK7726**



## Lens Loading Forceps

- For loading the TECNIS® 1-Piece IOL into the One Series™ Ultra Cartridge
- Polished tips protect from scratching the lens surface
- A stop ensures the IOL is not advanced beyond the recommended position in the cartridge
- 8mm diameter round handle, length 114mm

The DK7726 Lens Loading Forceps are used to load the AMO TECNIS® 1-Piece IOL into the AMO One Series Ultra Cartridge. To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential.

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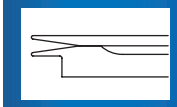
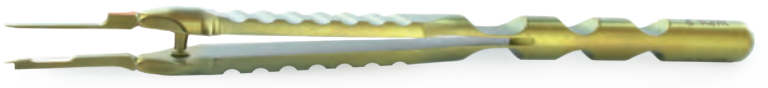
**DK7726-1**



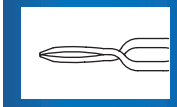
## Lens Loading Forceps



- For loading the TECNIS® 1-Piece IOL into the One Series™ Ultra Cartridge
- Polished tips protect from scratching the lens surface
- A stop ensures the IOL is not advanced beyond the recommended position in the cartridge
- Flat handle, length 114mm

The DK7726 Lens Loading Forceps are used to load the AMO TECNIS® 1-Piece IOL into the AMO One Series Ultra Cartridge. To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential.

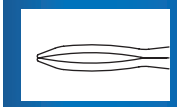
**DK7735**



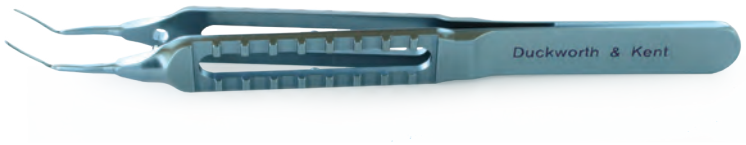
## Implantation Forceps


- 40° angled shafts, tip to angle length 16mm
- Highly polished inner jaw surfaces protect from scratching the lens surface
- Flat handle, length 112mm

**DK7740**



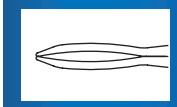
## DK IOL Insertion Forceps



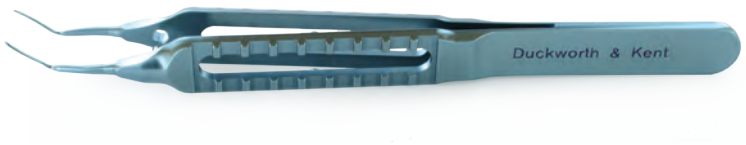

- Highly polished inner jaw
- Biconvex jaw design
- 40° angled shafts, tip to angle length 7.5mm
- Flat handle, length 109mm

Highly polished inner jaw surface protect from scratching the lens surface. Designed specifically for AcrySof IOL implant approved by Alcon.

**DK7740-1**



## DK IOL Insertion Forceps




- Textured inner jaw surface
- Biconvex jaw design
- 40° angled shafts, tip to angle length 7.5mm
- Flat handle, length 109mm

## DK7791

### Screw Thread Injector

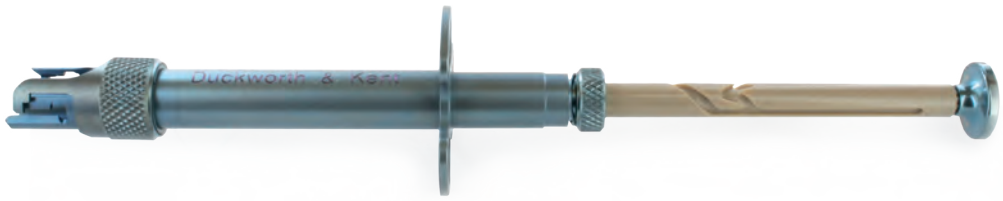
- Suitable for the AMO One Series™ Ultra Cartridge
- Quick and easy snap in design for secure cartridge loading
- Capsular friendly tip assist lens manipulation post implantation
- Screw thread delivery for efficient lens implantation
- Rapid screw thread gives a smooth predictable lens delivery
- Injector separates to expose internal parts for cleaning
- Injector length (without cartridge) 148mm

The thread engages at the IOL pre-load position, reducing the screw movement for the surgeon during final delivery.
To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential. Duckworth & Kent always recommends using the Loading Forceps (DK7726) which feature highly polished surfaces for easier loading without any damage to the IOL. The forceps correctly load the IOL into the cartridge in a pre-load position.

## DK7797-2

▶Video Available

### Single Handed Injector with pre-load position




- Suitable for Alcon MONARCH® IIID, IIIC and IIB cartridges
- Front loading cartridge, secured by rotating sleeve
- Single handed delivery for efficient lens implantation
- Pre-load position, reducing final plunger movement
- Injector separates to expose internal parts for cleaning
- Injector length (without cartridge) 157mm

The injector's tip will stop at the IOL pre-load position, reducing the plunger movement for the surgeon during final delivery.
The delivery process can be carried out single handed.
To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential.
Duckworth & Kent always recommends using the Loading Forceps (DK7717) which feature highly polished surfaces for easier loading without any damage to the IOL. The forceps correctly load the IOL into the cartridge in a pre-load position.

DK7797-3

## Screw Thread Injector

- Suitable for Alcon MONARCH® IIID, IIIC and IIB cartridges
- Front loading cartridge, secured by rotating sleeve
- Screw thread delivery for efficient lens implantation
- Rapid screw thread gives a smooth predictable lens delivery
- Injector separates to expose internal parts for cleaning
- Injector length (without cartridge) 152mm

The thread engages at the IOL pre-load position, reducing the screw movement for the surgeon during final delivery.
To ensure a successful IOL delivery and implantation, correct loading and setting of the IOL into the cartridge is essential. Duckworth & Kent always recommends using the Loading Forceps (DK7717) which feature highly polished surfaces for easier loading without any damage to the IOL. The forceps correctly load the IOL into the cartridge in a pre-load position.

**DK7605**

▶ Video Available

## 25 Gauge Vitrectomy Cannula System

25 Gauge Cannula System, consists of:
- 3 x Instrument Cannulas, ref: 8-640
- 3 x Cannula Plugs, ref: 8-642
- 1 x Infusion Cannula, ref: 8-641
- 1 x Cannula Inserter, ref: 6-190
- 1 x Cannula Loading Forceps, ref: 2-2-832
- 1 x Fine Fixation Ring with Caliper, ref: 9-513-3
- 1 x Sterilising Tray, ref: T7003-2

Duckworth & Kent has developed the Naito 25 Gauge Cannula System which allows a range of small incision vitrectomy instruments to pass through the cannula and into the posterior segment. The system permits a complete sutureless surgical procedure through a small incision that minimises the potential for surgical trauma.

**DK7610**

▶ Video Available

## 23 Gauge Vitrectomy Cannula System

23 Gauge Cannula System, consists of:
- 3 x Instrument Cannulas, ref: 8-640-2
- 3 x Cannula Plugs, ref: 8-642-1
- 1 x Infusion Cannula, ref: 8-641-2
- 1 x Cannula Inserter, ref: 6-190-1
- 1 x Cannula Loading Forceps, ref: 2-2-832
- 1 x Fine Fixation Ring with Caliper, ref: 9-513-3
- 1 x Sterilising Tray, ref: T7003-2

Duckworth & Kent has developed the 23 Gauge Cannula System which allows a range of small incision vitrectomy instruments to pass through the cannula and into the posterior segment. The system permits a complete sutureless surgical procedure through a small incision that minimises the potential for surgical trauma.

# Care and Repair

## Care and Handling

Effective reprocessing and correct handling of Duckworth & Kent ophthalmic surgical devices will prolong their life and ensure they are reliable and safe during operation.

Duckworth & Kent manufacture their products from quality sourced materials.Titanium, the primary material for all Duckworth & Kent devices, can withstand repeat sterilisation without compromise to the devices edge or surface quality. It is corrosion resistant, not just to steam, but to a vast range of chemicals (acids and alkalis), making it ideal for the harsh environments devices are exposed to during cleaning. Other materials used include the plastics PEEK, Ultem and PTFE. These plastics are strong and durable and can with stand repeated cleaning and sterilisation at temperatures up to 170°C.

**Scan the QR code for complete information on our Care and Handling, Guidelines for Reprocessing**

## Repair Service

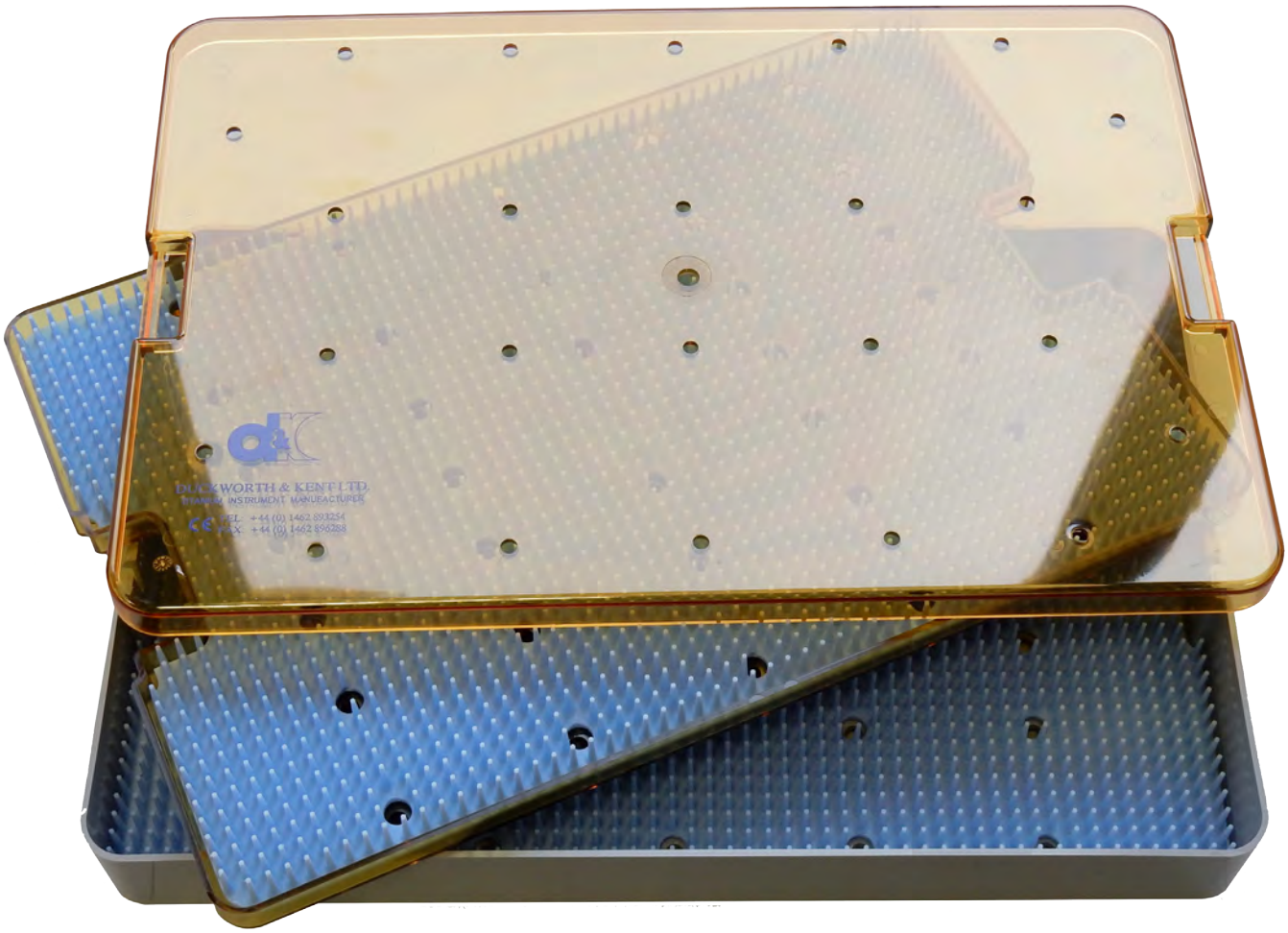
Our experience indicates that the high precision instruments used with the operating microscope require regular maintenance to ensure constant high performance and long life. Duckworth & Kent offers a fast turnaround to repair and service hand held surgical instruments, including diamond knives.

- Our repair service specialises in all ophthalmic surgical instruments, regardless of the make or material.
- We always provide a quality, professional service utilising our technologically advanced in-house facilities.
- We aim to achieve a fast and efficient turnaround.
- All instruments are repaired by highly skilled craftsmen, ensuring that any small imperfections are not overlooked.
- We repair all makes and styles of diamond knives.

**Before we carry out any work or repairs on any instrument we will require proof that the instrument has been decontaminated.**

If you are unable to provide the relevant documentation / certificate to confirm decontamination and you are aware that this process has been preformed then please download and complete a decontamination form.

Scan the QR code for our decontamination forms.


DUCKWORTH & KENT LTD.
SURGICAL INSTRUMENT MANUFACTURER
TEL +44 (0) 1462 893254
FAX +44 (0) 1462 896288

# Sterilising Trays

Sterilising Trays
Sterilising Cases

**T7003-1**

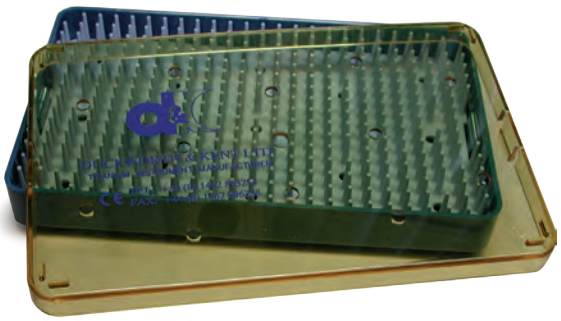
## Sterilising Tray suitable for 4 instruments

- External dimensions: 160mm x 70mm x 25mm
- Suitable for 4 instruments
- One silicone mat

**DK7003**

## Sterilising Tray suitable for 6 instruments

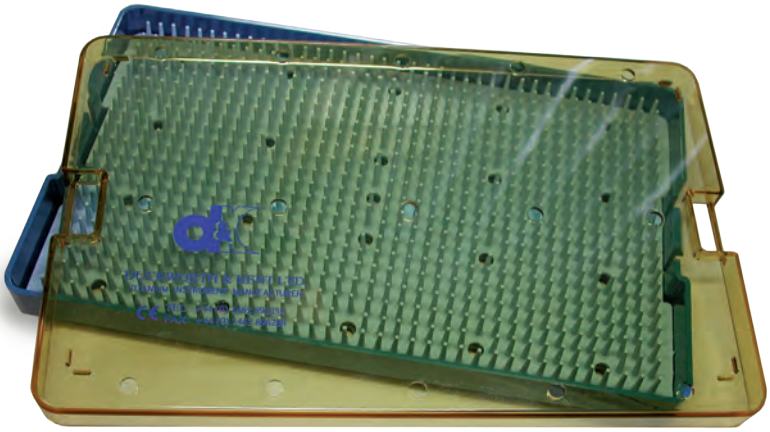
- External dimensions: 173mm x 110mm x 25mm
- Suitable for 6 instruments
- One silicone mat



**T7010**

## Sterilising Tray suitable for 10 instruments

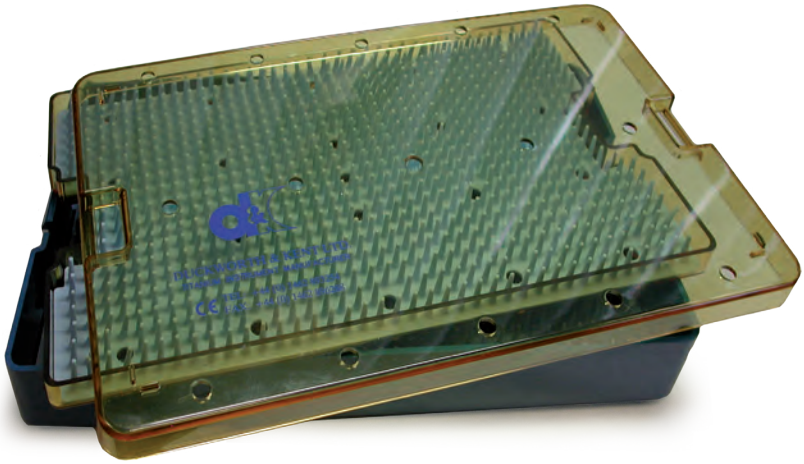
- External dimensions: 264mm x 162mm x 25mm
- Suitable for 10 instruments
- One silicone mat



**T7010-2**

## Sterilising Tray suitable for 20 instruments

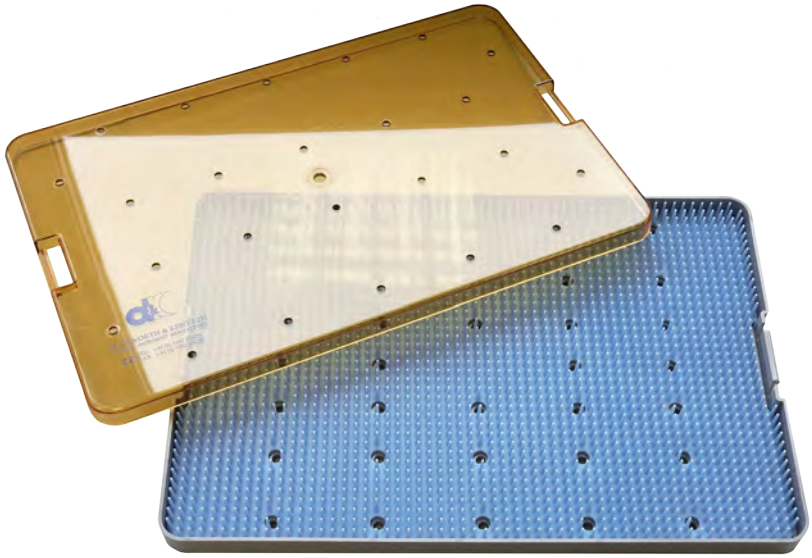
- External dimensions: 264mm x 162mm x 45mm
- Suitable for 20 instruments
- Second internal middle tray
- One silicone mat



**T7020**

## Sterilising Tray suitable for 20 instruments

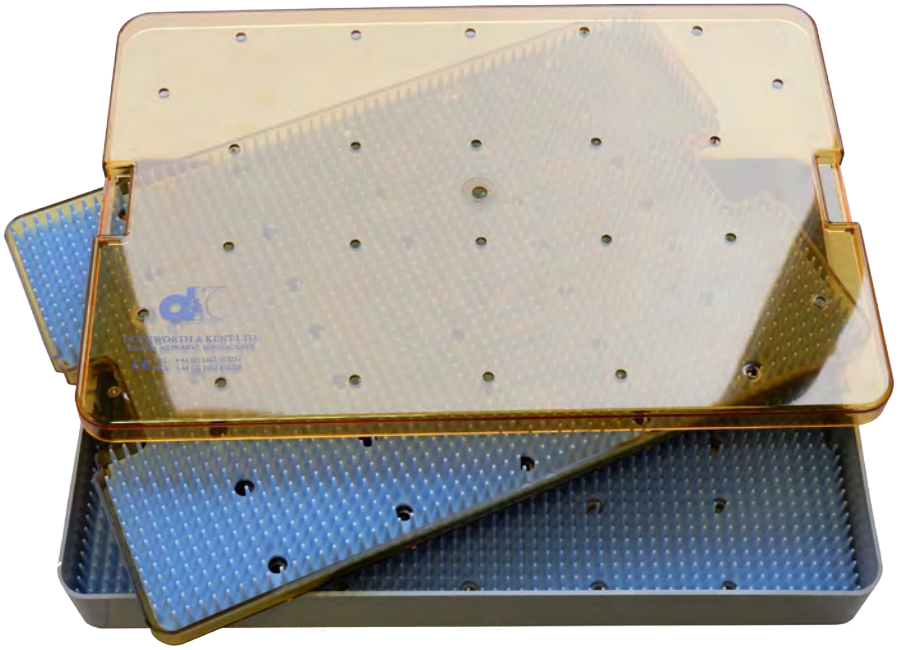
- External dimensions: 395mm x 266mm x 25mm
- Suitable for 20 instruments
- One silicone mat



**T7020-2**

## Sterilising Tray suitable for 40 instruments

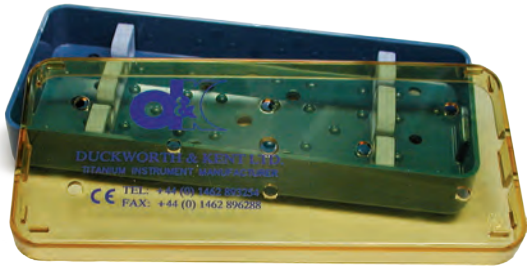
- External dimensions: 395mm x 266mm x 50mm
- Suitable for 40 instruments
- Second internal middle tray
- Two silicone mats



**T7000**

## Sterilising Tray suitable for 2 Diamond Knives

- External dimensions: 160mm x 70mm x 25mm
- Suitable for 2 diamond knives
- Two silicone bars




**T7003-2**

## Sterilising Tray and Insert For Retinal Cannula Sets

- External dimensions: 160mm x 70mm x 25mm

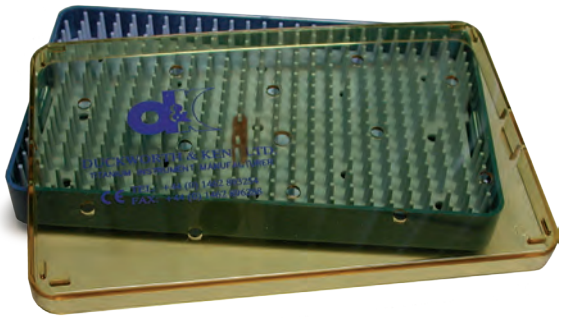
Designed to hold 23 or 25 Gauge Vitrectomy Cannula System, including:
- 4 Instrument cannulas and instrument cannula plugs
- Infusion cannula and silicone line
- Cannula inserter
- Fixation ring (with or without caliper)
- Cannula loading forceps


**DK7003-2**

## Vitrectomy Instruments Sterilising Tray, suitable for 2 Instrument Heads

- External dimensions: 173mm x 110mm x 25mm
- One silicone mat

Designed to hold one handle, up to two heads, one cleaning guard and adaptor.

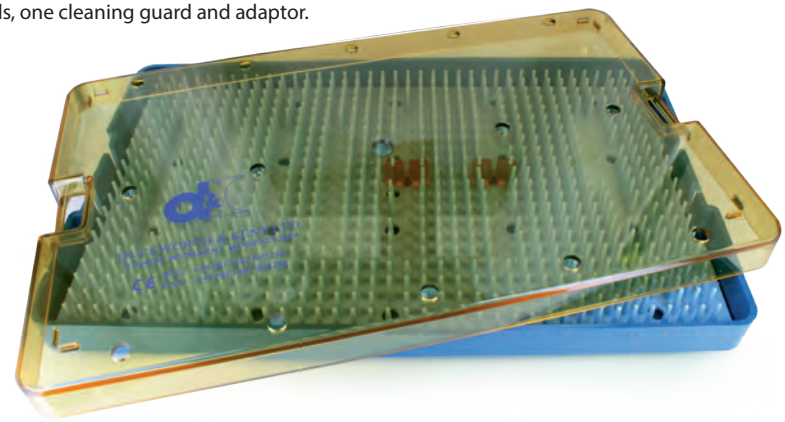


**T7010-5**

## Vitrectomy Instruments Sterilising Tray, suitable for 4 Instrument Heads

- External dimensions: 264mm x 162mm x 25mm
- One silicone mat

Designed to hold two handles, up to four heads, one cleaning guard and adaptor.



## Sterilising Cases

**6-135**

### Mackool Holder and Sterilising Case

- External dimensions: 19mm diameter, 12mm height
- Internal dimensions: 15mm diameter, 10mm height
- Made from titanium

**6-135-1**

### Mackool Holder and Sterilising Case

- External dimensions: 19mm diameter, 12mm height
- Internal dimensions: 15mm diameter, 10mm height
- Made from Ultem, a semi-transparent orange coloured plastic

**6-138**

### Sterilising Case for Retinal Cannula Plugs

- External dimensions: 19mm diameter, 13mm height
- Secures up to 8 cannula plugs
- Made from Ultem, a semi-transparent orange coloured plastic

# Index - Numerical

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T

# Why choose a Duckworth & Kent instrument?

- When you buy a Duckworth & Kent instrument you are investing in a product that will last you for many years and countless procedures.

- Duckworth & Kent's precision reusable instruments are made of high quality titanium alloy, conferring many advantages over stainless steel alternatives:

    - Titanium is lightweight and non-reflective when compared with stainless steel; properties which are invaluable when performing delicate intra-ocular surgery.

    - Titanium is corrosion resistant, non-magnetic and more durable than stainless steel ensuring greater performance when undertaking extra-ocular surgery such as suturing.

- The decision between choosing our titanium reusable instruments over single-use alternatives is a simple one. Not only are our high precision reusable titanium instruments more cost-beneficial in the long term, they also have a lower impact on the environment.

- When you buy one of our products you have access to our unparalleled after-care service. At Duckworth & Kent we are passionate about providing efficient post-sales customer support, including online advice on the cleaning and sterilisation of equipment. In the rare event of an instrument requiring a repair, we will provide this service with a quick turnaround time.

- Our family-run business has over 50 years of engineering experience and expertise, designing and manufacturing products in-house with rigorous quality control. Our engineers are continuously refining our armamentarium of ophthalmic instruments with the aid of key opinion leaders to meet the exacting standards of our customers who strive to deliver the best outcomes for their patients.


D&K

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# Duckworth & Kent Exhibiting 2017 / 18

Duckworth & Kent will be at the following exhibitions:

ESCRS 2017 in Lisbon, Portugal

ESCRS 2018 in Vienna, Austria



If you would like to meet a representative from the Duckworth & Kent team at one of the following events then please contact us.

To see more information on both of these upcoming exhibitions including our booth number then follow us on social media or visit our events page at:

www.duckworth-and-kent.com/events