



Reusable Titanium Ophthalmic Instruments

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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# 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



minimum dissection of any attachment between the Descemet's membrane and the corneal lamella.











#### 1-122

Ø

#### **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







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.





#### 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	$\checkmark$		~	
Handle Length Short Handle 92mm		$\checkmark$		$\checkmark$
Width at Pivot Box 1.5mm	$\checkmark$			
Marks on Shaft 2.5mm & 5mm	$\checkmark$			
Tip to Pivot Length 11mm			🗸 11mm	
Curved Shaft	$\checkmark$			
All Tips - Angled 45° - Sharp - Serrated	$\checkmark$			

#### 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	$\checkmark$		$\checkmark$	
Handle Length Short Handle 91mm		$\checkmark$		$\checkmark$
Width at Pivot Box 1.5mm	$\checkmark$			
Marks on Shaft 2.5mm & 5mm	$\checkmark$			
Tip to Pivot Length 10mm			🗸 10mm	
Curved Shaft			1	
All Tips - Angled 45° - Sharp - Serrated	$\checkmark$			









#### Comparison Chart - Inamura Capsulorhexis Forceps





- 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

5mm

 $\square$ 

 $\square$ 

 $\square$ 

#### 2-716GWR8-2

2-716GW

2-716GWR8

2-716GW-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



Capsulorhexis, New Inamura Cross Action - Tip View Details

#### POINTED SERRATED TIPS

Precise interlocking serrated tips with a sharp point enables the surgeon to initiate the capsule tear then securely grasp the capsule to perform the capsulorhexis.

#### 

Tip to pivot length either 8.5mm or 9.5mm. Designed specifically for cornea or scleral placed incisions.

> SMALL INCISION SIZE Designed to fit comfortably through any incision down to 1.8mm.

MARKED SCALE Marks on the shaft at 2.5mm and 5mm from tip.

SMOOTH ACTION

Three pivot point precision provides the highest quality with a smooth controlled action.



2-

Forceps



	Forceps	2-
2-685	DK Conjunctival Clamp	
	<ul> <li>6.5mm wide highly polished tips</li> <li>Length 73mm</li> <li>Designed to hold and protect 'free' edge of conjunctival flap created in trabeculectomy.</li> </ul>	
2-686	<ul> <li>Khaw Small Conjunctival Clamp</li> <li>Holds conjunctiva securely</li> <li>Particularly useful during fornix based conjunctival incisions</li> <li>Single handed action</li> <li>Holds and protects the conjunctival edge during antimetabolite application</li> <li>Tip width 4mm</li> <li>Overall length 74mm</li> </ul>	
2-687	<ul> <li>Khaw Large Conjunctival Clamp</li> <li>Holds conjunctiva securely</li> <li>Particularly useful during fornix based conjunctival incisions</li> <li>Single handed action</li> <li>Holds and protects the conjunctival edge during antimetabolite application</li> <li>Tip width 12mm</li> <li>Overall length 74mm</li> </ul>	
6-800	<ul> <li>Barrett LeClip Utility Clamp</li> <li>14mm serrated cross action jaws</li> <li>Length 82mm</li> <li>Distinctive identification labelling</li> <li>Replaces need for a mosquito or artery forceps. Holds sutures to drape without piercing plastic.</li> </ul>	
6-805	Bulldog Clip • 8.5mm serrated cross action jaws • Length 46mm	
	Ophthalmic Instrument Catalogue 32	1

#### Colibri, 0.12 Toothed DK Troutman-Barraquer Colibri Forceps, 0.12mm 2-132 • 0.12mm, 1 x 2 teeth, tip length 2mm (AE • 6mm tying platforms Colibri style shafts Flat handle, length 88mm Colibri Toothed Forceps, 0.12mm 2-132N • 0.12mm, 1 x 2 teeth, tip length 2mm AF 6mm tying platforms Colibri style shafts • Flat handle, length 83mm Toothed Colibri Forceps - Dolphin Handle, 0.12mm 2-132D • 0.12mm, 1 x 2 teeth, tip length 2mm (A) 6mm tying platforms Colibri style shafts Dolphin handle, length 94mm Colibri Toothed Forceps, 0.12mm 2-132-3N • 0.12mm, 1 x 2 teeth, tip length 1mm 6mm tying platforms Colibri style shafts • Flat handle, length 83mm DK Colibri Forceps, 0.12mm 2-135 Duckworth & Kent • 0.12mm, 1 x 2 teeth, tip length 2mm AF • 6mm tying platforms Colibri style shafts • Flat long handle, length 115mm Colibri Toothed Forceps, 0.12mm 2-135N • 0.12mm, 1 x 2 teeth, tip length 2mm (AF) • 6mm tying platforms Colibri style shafts • Long flat handle, length 114mm

	Forceps 2-
2-135NR	Colibri Toothed Forceps, 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>10mm diameter round handle, length 114mm</li> </ul>
2-135NR8	<ul> <li>Colibri Toothed Forceps, 0.12mm</li> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>8mm diameter round handle, length 114mm</li> </ul>
2-214	<ul> <li>DK Troutman-Barraquer Colibri Forceps, 0.12mm</li> <li>0.12mm, 1 x 2 teeth, tip length 1.5mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Micro flat handle, length 77mm</li> </ul>
<b>2-215</b>	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, 0.21	Foothed
2-132-2N	<ul> <li>Colibri Toothed Forceps, 0.2mm</li> <li>0.2mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Flat handle, length 83mm</li> </ul>
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




2-687	Khaw Large Conjunctival Clamp
	<ul> <li>Holds conjunctiva securely</li> <li>Particularly useful during fornix based conjunctival incisions</li> <li>Single handed action</li> <li>Holds and protects the conjunctival edge during antimetabolite application</li> <li>Tip width 12mm</li> <li>Overall length 74mm</li> </ul>
2-510	Moorfields Utility Forceps
	• Serrated tips, 2mm wide • Straight shafts • Flat handle, length 116mm
2-510N	Moorfields Utility Forceps
	<ul> <li>Serrated tips, 2mm wide</li> <li>Straight shafts</li> <li>Flat handle, length 115mm</li> </ul>
2-510-1	Moorfields Utility Forceps
	<ul> <li>Delicate serrated tips, 1mm wide</li> <li>Straight shafts</li> <li>Flat handle, length 116mm</li> </ul>
2-510-1N	Moorfields Utility Forceps
	<ul> <li>Delicate serrated tips, 1mm wide</li> <li>Straight shafts</li> <li>Flat handle, length 115mm</li> </ul>



Flap Lifting	
2-795	Stein Utility / Flap Lifting Forceps         • Small flat ring tips         • 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
	<ul> <li>25° angled shafts, tip to angle length 3.5mm</li> <li>Flat handle, length 85mm</li> <li>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.</li> </ul>
Gland Press	ing
<b>2-635</b>	<ul> <li>Kudo Meibomian Gland Pressing Forceps</li> <li>60° angled shafts</li> <li>4.5mm x 3mm fine crossed hatched serrated jaws</li> <li>Internal faces of tip are cross hatched</li> <li>Cross action handle, length 112mm</li> </ul>
IOL Folding	/ Insertion / Loading
2-700	<ul> <li>Shepard IOL Forceps</li> <li>Curved 1.5mm tips</li> <li>Cross action handle, length 112mm</li> </ul>
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.



Forceps

2-



Forceps



DK7735	Implantation Forceps
	<ul> <li>40° angled shafts, tip to angle length 16mm</li> <li>Highly polished inner jaw surfaces protect from scratching the lens surface</li> <li>Flat handle, length 112mm</li> </ul>
DK7740	DK IOL Insertion Forceps
	<ul> <li>Highly polished inner jaw</li> <li>Biconvex jaw design</li> <li>40° angled shafts, tip to angle length 7.5mm</li> <li>Flat handle, length 109mm</li> <li>Highly polished inner jaw surface protect from scratching the lens surface. Designed specifically for AcrySof IOL implant approved by Alcon.</li> </ul>
DK7740-1	DK IOL Insertion Forceps
	<ul> <li>Textured inner jaw surface</li> <li>Biconvex jaw design</li> <li>40° angled shafts, tip to angle length 7.5mm</li> <li>Flat handle, length 109mm</li> </ul>
DK7741	DK IOL Insertion Forceps (with lock)
	<ul> <li>Highly polished inner jaw</li> <li>Biconvex jaw design</li> <li>40° angled shafts, tip to angle length 7.5mm</li> <li>Flat handle with lock, length 110mm</li> <li>Highly polished inner jaw surface protect from scratching the lens surface. Designed specifically for AcrySof IOL implant approved by Alcon.</li> </ul>
Telescope L	ens ens
2-754 ► Video Available Top Down	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



2-160

#### **Troutman Superior Rectus Forceps**



#### Pierse, 0.25mm Notched











Plain Tip / Je	ewellers	
2-900	DK Plain Tip Forceps, Straight	Duckworth & Kent
	Plain tips without tying platforms     Straight shafts     Flat handle, length 89mm	
2-901	<ul> <li>DK Plain Tip Forceps, Curved</li> <li>Curved plain tips without tying platforms</li> <li>Curved shafts</li> <li>Flat handle, length 88mm</li> </ul>	< Duckworth & Kent
Dotinal		
Retinal		
2-868	Squeeze Handle Smooth Rounded Tips Forceps 20 Ga	auge
	• 2mm smooth rounded tips • Straight 20 gauge tube, tube length 32.5mm	<ul> <li>Squeeze action activates both jaws</li> <li>Round squeeze handle, overall length 138mm</li> </ul>
2-871	Squeeze Handle End Gripping Forceps 20 Gauge	
	<ul> <li>Fine end gripping tips, tip length 3.7mm</li> <li>Straight 20 gauge tube, tube length 32.5mm</li> </ul>	<ul> <li>Squeeze handle activates both jaws</li> <li>Round squeeze handle, overall length 141mm</li> </ul>
2-878	Squeeze Handle Delicate Serrated Forceps 20 Gauge	Duckworth & Kent
	<ul> <li>Delicate serrated jaws with blunt tip, tip length 3mm</li> <li>Straight 20 gauge tube, tube length 32.5mm</li> </ul>	<ul> <li>Squeeze handle activates both jaws</li> <li>Round squeeze handle, overall length 139mm</li> </ul>
2-885	Squeeze Handle Rassam Membrane Picking Forceps 2	20 Gauge
	• 2.mm jaws, 0.7mm platforms, 55° angled pointed picking tips • Straight 20 gauge tube, tube length 32.5mm	Ouchmedit & Kent     Squeeze action activates both jaws     Round squeeze handle, overall length 138mm



2-885N	Rassam Membrane Picking Forceps Head 20	Gauge
	<ul> <li>2mm jaws, 0.7mm platforms, 55° angled pointed picking tip</li> <li>Straight 20 gauge tube, length 31mm</li> <li>Requires DK Squeeze Handle, ref 6-676</li> </ul>	<ul> <li>Detachable tip heads for cleaning purposes</li> <li>Colour coding for tip and gauge size identification</li> <li>Once attached to round squeeze handle, length is 140mm</li> </ul>
2-877N	End Gripping Forceps Head 23 Gauge	
	<ul> <li>Fine end gripping tips, tip length 3mm</li> <li>Straight 23 gauge tube, length 31mm</li> <li>Requires DK Squeeze Handle, ref 6-676</li> </ul>	<ul> <li>Detachable tip heads for cleaning purposes</li> <li>Colour coding for tip and gauge size identification</li> <li>Once attached to round squeeze handle, length is 142mm</li> </ul>
2-878-1N	Delicate Serrated Forceps Head 23 Gauge	
	<ul> <li>Delicate serrated jaws with blunt tip, tip length 3.5mm</li> <li>Straight 23 gauge tube, length 31mm</li> <li>Requires DK Squeeze Handle, ref 6-676</li> </ul>	<ul> <li>Detachable tip heads for cleaning purposes</li> <li>Colour coding for tip and gauge size identification</li> <li>Once attached to round squeeze handle, length is 142mm</li> </ul>
2-879N	Asymmetrical Forceps Head 23 Gauge	
	<ul> <li>2mm jaws, 0.7mm platforms, 55° angled pointed picking tip</li> <li>Straight 23 gauge tube, length 31mm</li> <li>Requires DK Squeeze Handle, ref 6-676</li> </ul>	<ul> <li>Detachable tip heads for cleaning purposes</li> <li>Colour coding for tip and gauge size identification</li> <li>Once attached to round squeeze handle, length is 140mm</li> </ul>
	All Interchangeable Vitreoretinal (VR) Heads are sold separ the DK Squeeze Handle for VR Instrument Heads, ref 6-676 Protective Cover, that can withstand cleaning and reproce Handle for VR Instrument Heads. It is recommended, for d fitted until the instrument is required for use.	rate from the handle. The VR Heads require a handle for operation. ONLY 5, is suitable. All VR Heads come fitted with a plastic (PEEK) re-usable ssing cycles. The VR Heads are screwed onto the thread of DK Squeeze evice protection, to keep the plastic (PEEK) re-usable protective cover
6-676	Squeeze Handle for Vitreoretinal Instrument	<u>Heads</u>
		Duckworth & Kent
	<ul> <li>Suitable for all Duckworth &amp; Kent Vitreoretinal Instrumer</li> <li>Overall Length 92 mm (without head)</li> <li>Squeeze action handle</li> </ul>	t Heads
2-2-832	Cannula Loading Forceps	
	<ul> <li>Designed to hold 23 and 25 gauge cannulas</li> <li>45° angled shafts, tip to angle length 10mm</li> <li>Flat handle, length 111mm</li> </ul>	Duckworth





Straight Suturing Forceps, 0.12mm
<ul> <li>0.12mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>8mm diameter round handle, length 84mm</li> </ul>
<u>Toothed Forceps - Dolphin Handle 0.12mm</u>
<ul> <li>0.12mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>Dolphin handle, length 95mm</li> </ul>
DK Straight Suturing Forceps, 0.12mm
• 0.12mm, 1x2 teeth• Straight shafts• 6mm tying platforms• Coloured gold• Tip width 0.3mm• Flat handle, length 118mm
DK Bonn Curved Suturing Forceps, 0.12mm
<ul> <li>0.12mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Curved shafts</li> <li>Flat handle, length 88mm</li> </ul>
Curved Suturing Forceps, 0.12mm
<ul> <li>0.12mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Curved shafts</li> <li>8mm diameter round handle, length 114mm</li> </ul>
Castroviejo Straight Suturing Forceps, 0.12mm
<ul> <li>0.12mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>Flat long handle, length 116mm</li> </ul>
Straight Suturing Forceps, 0.12mm Duckworth & Kent
<ul> <li>0.12mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>Flat handle, length 115mm</li> </ul>



2-132N	Colibri Toothed Forceps, 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Flat handle, length 83mm</li> </ul>
2-132D	Toothed Colibri Forceps - Dolphin Handle 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Dolphin handle, length 94mm</li> </ul>
2-132-3N	Colibri Toothed Forceps, 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 1mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Flat handle, length 83mm</li> </ul>
2-135	DK Colibri Toothed Forceps, 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Flat handle, length 115mm</li> </ul>
2-135N	Colibri Toothed Forceps, 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Flat handle, length 114mm</li> </ul>
2-135NR	Colibri Toothed Forceps, 0.12mm
	<ul> <li>0.12mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>10mm diameter round handle, length 114mm</li> </ul>



Toothed, 0.2mm	
2-110-2	DK Bonn Straight Suturing Forceps, 0.2mm
	<ul> <li>0.2mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>Flat handle, length 89mm</li> </ul>
2-132-2N	Colibri Toothed Forceps, 0.2mm
	<ul> <li>0.2mm, 1 x 2 teeth, tip length 2mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Flat handle, length 83mm</li> </ul>
2-214-2	DK Troutman-Barraquer Colibri Forceps, 0.2mm
	<ul> <li>0.2mm, 1 x 2 teeth, tip length 1.5mm</li> <li>6mm tying platforms</li> <li>Colibri style shafts</li> <li>Micro flat handle, length 77mm</li> </ul>
Toothed, 0.3	3mm
2-116	Castroviejo Straight Suturing Forceps, 0.3mm
	<ul> <li>• 0.3mm, 1 x 2 teeth, 6mm tying platforms</li> <li>• Straight shafts</li> <li>• Flat handle, length 116mm</li> </ul>
2-116N	Straight Suturing Forceps, 0.3mm
	<ul> <li>0.3mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>Flat handle, length 115mm</li> </ul>
2-118	DK Bonn Suturing Forceps, 0.3mm
	<ul> <li>0.3mm, 1 x 2 teeth, 6mm tying platforms</li> <li>Straight shafts</li> <li>Flat handle, length 89mm</li> </ul>













	Forceps 2-
2-504NR8	Straight Tying Forceps
	Ducksweith & Real
	• 6mm tying platforms • Straight shafts • 8mm diameter round handle, length 115mm
2-504-1NR8	Straight Tying Forceps
	Duckworth & Kant
	• 6mm tying platforms • Straight shafts • 8mm diameter round handle, length 115mm
	<ul> <li>Fine enough for tying 10-0 sutures, yet platforms are broad enough to minimise damage to sutures from compression.</li> <li>Broader platform works well for safely rotating sutures to bury the suture knot.</li> <li>Well matched for use with the Ogawa Angled Tying Forceps (ref: 2-523NR8) when tying multiple sutures that have been previously placed.</li> </ul>
Laser Protec	ction
2.660	Miyata Laser Protection Forceps
2-000	Duckworth & Kent
Video Available	• 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 <sup>®</sup> SMI	LE
2-835	NeoVize SMILE Forceps
2-835N	NeoVize SMILE Forceps
¢	<ul> <li>4mm long serrated jaws</li> <li>Tip to angle length 9mm, angled 30°</li> <li>Flat handle, overall length 92mm (2-835)</li> <li>Flat handle, overall length 87mm (2-835N)</li> </ul>
	Designed to grasp the lenticule and remove it from the corneal pocket.
2-836	SMILE Lenticule Removal Forceps
	<ul> <li>4mm long serrated jaws</li> <li>30° angled shafts</li> <li>Flat long handle, length 119mm</li> </ul>





## KAMRA<sup>™</sup> Corneal Inlay

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

& Kent

## Social Media

#### Its never been easier to stay up to date with Duckworth & Kent

Keep up to date with the latest news.
Tell us what you think, and connect with others.
Be the first to hear about new instruments.
Gain easy access to our monthly newsletter.



Connect

Like

## Share

Stay connected with Duckworth & Kent



## - REUSABLE TITANIUM INSTRUMENTS



MANUFACTURED IN ENGLAND -

# **Needle Holders**

Jaw Length 7mm Jaw Length 9mm Jaw Length 12mm Miscellaneous The locking feature is available throughout the range, enabling the needle holder to be transferred with the needle locked in the jaws. Duckworth & Kord Duckworth & Cord D





33-202	DK Needle Holder, Curved with lock
	• 9mm medium curved jaws     • Round handle with lock, tag spring     • Length 136mm
3-203	DK Needle Holder, Curved
	<ul> <li>9mm medium curved jaws</li> <li>Round handle, tag spring</li> <li>Length 109mm</li> </ul>
3-203NR8	•8.5mm medium curved jaws
	• 8mm diameter handle, length 117mm
33-203	DK Needle Holder, Curved
	<ul> <li>9mm medium curved jaws</li> <li>Round handle, tag spring</li> <li>Length 136mm</li> </ul>
2,000	DK Needle Holder, Curved with lock
	<ul> <li>9mm medium curved jaws, blunt tip</li> <li>Round handle with lock, tag spring</li> <li>Length 109mm</li> </ul>
33-222	DK Needle Holder, Curved with lock
	• 9mm medium curved jaws, blunt tip     • Round long handle with lock, tag spring     • Length 136mm
3-223	DK Needle Holder, Curved
	<ul> <li>9mm medium curved jaws, blunt tip</li> <li>Round handle, tag spring</li> <li>Length 109mm</li> </ul>
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# **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**









#### 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**



#### 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.







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

5-362



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 micronsOne revolution of the barrel is 500 microns

## Blade Depth Setting Instructions



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



# - REUSABLE TITANIUM INSTRUMENTS



# 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.



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.

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#### 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.

<u>Step 1.</u> 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.

<u>Step 2.</u> 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.

<u>Step 3.</u> 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.

<u>Step 4.</u> 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.







Contular	
Spatulas	
6-099	Mackool-Barraquer Spatula
Brth	<ul> <li>0.45mm width, 0.25mm thickness</li> <li>Angled shaft, tip to angle length 15mm</li> <li>Round handle, length 116mm</li> <li>Blunted 0.45mm tip, modified shape and design in order to minimise incision leakage during use and reduce risk of posterior capsule damage.</li> </ul>
6-099-1	<ul> <li>DK Iris Repositor</li> <li>0.45mm width, 0.25mm thickness</li> <li>Angled shaft, tip to angle length 15mm</li> <li>Highly polished internal face of curved tip</li> <li>Round handle, length 121mm</li> </ul>
<b>6-099-2</b> ●	<ul> <li>DK Spatula</li> <li>0.5mm width, 0.2mm thickness</li> <li>Angled shaft, tip to angle length 10mm</li> <li>Highly polished underside of blade</li> <li>Round handle, length 120mm</li> </ul>
6-099-3	<ul> <li>Anwar Keratoplasty Spatula</li> <li>0.25 diameter blunt tip</li> <li>Tip tapered from 0.5mm diameter</li> <li>Angled shaft, tip to angle length 7mm</li> <li>Round handle, length 115mm</li> <li>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.</li> </ul>
6-099-4	<ul> <li>DK Spatula</li> <li>0.5mm width, 0.2mm thickness</li> <li>Curved shaft, tip to angle length 10mm</li> <li>Highly polished underside of blade</li> <li>Round handle, length 121mm</li> </ul>





- Secures up to 8 cannula plugs
- Made from Ultem, a semi-transparent orange coloured plastic






















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
	<ul> <li>2.5mm cup</li> <li>Straight shaft</li> <li>Round handle, length 125mm</li> </ul>
6-641-4	DK Meyerhoefer Chalazion Curette, 3mm cup
	• 3mm cup • Straight shaft • Round handle, length 126mm
Depressors	
6-615	Tsukahara Scleral Depressor
	<ul> <li>Highly polished tip</li> <li>Tip length 6mm, maximum diameter 1.2mm</li> <li>55° angled shaft</li> <li>Large diameter round handle, length 114mm</li> </ul>
109	Duckworth & Kent



DK Schocket Double Ended Scleral Depressor



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

Koura Double Ended Scleral Depressor



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6-635-4

6-615-1

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6-615-2

6-635-2

6-635-3

Nishimura Depressor and Manipulator

• 2x slits down side, 0.5mm diameter x 6mm length

0.5mm diameter pin 3mm long

Round handle, length 124mm

 $\bullet$  Shaft with pin angled at  $40^\circ$ 

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.

# **Ophthalmic Instrument Catalogue**





### Retractors



### Duckworth & Kent

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

6-629

**Rabkin Lid Retractor** 

Blade width 15.5mmFlat handle, length 134mm

Non-reflective finish, textured surface top face





### 6-667

#### **Rabkin Eye Shield**

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



#### Egi-Rabkin Large Eye Shield

- 19mm 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.



Protects the eye when carrying out laser blepharoplasty surgery.



- 19mm wide x 22mm long irrigating eye shield
- Irrigating port in centre of eye shield
- Eye shield highly polished
- Supplied individually

# **Ophthalmic Instrument Catalogue**



	Hooks, Probes, Manipulators, Miscellaneous 6-
6-858	Stevens Femto Flap Lifter
	<ul> <li>Thin curved blade, 1.3mm wide with sharp edges</li> <li>35° angled curved shaft, tip to angle length 10.5mm</li> <li>Round handle, length 122mm</li> </ul>
6-859	Stevens Femto Flap Lifter, narrow tip
Constantion of the second s	<ul> <li>Thin curved blade with narrow pointed tip, 1.3mm wide, sharp edges</li> <li>35° angled curved shaft, tip to angle length 10.5mm</li> <li>Round handle, length 122mm</li> </ul>
	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
	<ul> <li>1.3mm curved blade</li> <li>35° angled curved shaft, tip to angle length 10.5mm</li> <li>Bound bandle length 122mm</li> </ul>
	Designed to raise flap during LASIK.
6-870-1	
	• 1.3mm curved blade • 60° angled curved shaft, tip to angle length 10.5mm • Round handle, length 119mm
	Ophthalmic Instrument Catalogue 110

### **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	6-946-1
	9.5mm	6-927	



6-190	<u>Cannula Inserter - 25 Gauge</u>		
	Designed to insert Naito Step Cannulas (8-640)     Length 100mm		
6-190-1	Cannula Inserter - 23 Gauge		
	<ul> <li>Designed to assist the insertion of the Instrument Cannulas</li> <li>Blunt tip</li> <li>Round handle, length 100mm</li> </ul>		
Disruptor fo	or CXL		
6-960	Daya Disruptor for CXL		
Video Available	<ul> <li>40 fine sharp points radially spaced</li> <li>45° angled shaft</li> <li>Round handle, length 125mm</li> <li>Corneal Collagen Crosslinking with Riboflavin known as CXL, C3-R and CCL. The procedure involves instilling Riboflavin (one of the</li> </ul>		
	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.		
6-960-1	Epithelial Disruptor for CXL		
	<ul> <li>40 fine sharp points radially spaced</li> <li>Round handle, length 21mm</li> </ul>		
Keratomete	ers		
6-700	Maloney Keratometer Cone-shaped instrument designed to reflect the microscope light in concentric rings on the cornea to detect astigmatism.		
6-710	Barrett Keratoscope		
	<ul> <li>Round</li> <li>Distinctive identification labelling</li> <li>(re-order for ring, specify B-0806)</li> <li>Quantitative keratoscope to assist with detection of astigmatism at end of procedure. Microscope light provides a bright reflective image. Surgeon selects which of three ring images is most circular to determine a quantitative estimation of astigmatism. Handle contains an engraved scale to facilitate determination of astigmatism.</li> </ul>		

