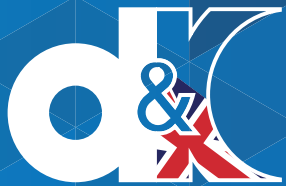




Product Guide

Capsulorhexis Forceps



Duckworth & Kent
reusable titanium surgical instrument manufacturer



Incision Sizes -1mm / 1.5mm / 1.8mm / 2.2mm

Duckworth & Kent is a world leader in reusable titanium ophthalmic surgical instruments.

Proud to be a British manufacturing company, Duckworth & Kent are at the forefront of advancing ophthalmic surgery from their state of the art headquarters in England.

The company's ongoing commitment to exceptional engineering over 60 years is proven by its innovative product ranges.



 <p>Reusable</p> <p>High Quality Reusable Instruments</p>	 <p>Ti Titanium</p> <p>Manufactured in Titanium</p>	 <p>Precision Manufactured in England</p>	 <p>Worldwide Delivery</p>
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Why Duckworth & Kent use titanium ?

For centuries traditional handheld surgical instruments were made from stainless steel.

In the 1960's the aerospace industry embraced the benefits of titanium alloy. In the 1970's a metallurgist advised Duckworth & Kent to consider titanium alloy (Ti 6Al-4V).

Titanium is well suited to precision surgical instrumentation:

- Reusable
- No oxidation
- Non-magnetic
- Lightweight
- Durability
- Anodising - reduces glare from microscopes



Duckworth & Kent moved away from stainless steel. Applying new manufacturing techniques, they became specialists in titanium, producing the finest medical devices.

Duckworth & Kent's product range covers a wide variety of instruments including:



Every instrument is designed, in-house to exacting standards using high grade titanium alloy.

E-Range Forceps



SMILE



I/A



Visit : www.duckworth-and-kent.com
to view a wide range of ophthalmic titanium
instruments

As well as product information, you will also find
detailed literature and informative videos showing
some of our instruments in action.



View our full range of Capsulorhexis Forceps overleaf

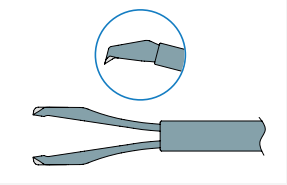
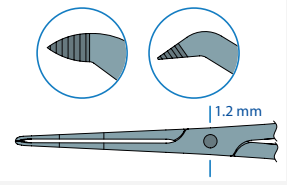
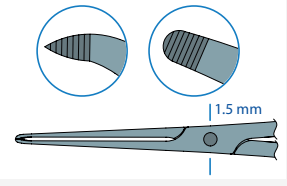
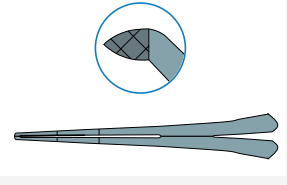


Capsulorhexis Forceps



*"the finest
capsulorhexis
forceps"*

Consistent capsulorhexis size is crucial for optimal IOL implant function
View our Capsulorhexis Forceps comparison charts to help you decide which forceps suit your needs.

Incision Sizes	Tip Types	Contents
1mm		<p><u>Page 4</u> Squeeze Action - Micro Incision 1mm</p>
1.5mm		<p><u>Page 5</u> Cross Action - Inamura 1.5mm</p>
1.8mm		<p><u>Page 6</u> Cross Action - Inamura 1.8mm</p> <p><u>Page 7-8</u> Cross Action - Calladine-Inamura 1.8mm</p>
2.2mm		<p><u>Page 9</u> Cross Action - Mackool-Inamura 1.8mm</p> <p><u>Page 10</u> Cross Action - Jones-Inamura 1.8mm</p> <p><u>Page 11-12</u> Direct Action - Utrata 2.2mm</p>

TITANIUM TUBE

Ø0.7mm polished curved 23 gauge tube and front section made from single piece of titanium. No fabrication and joints to fail over time.

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.

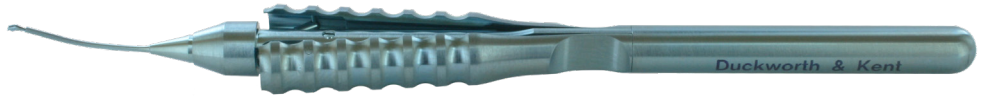
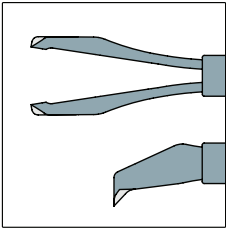


TITANIUM HANDLE

Sleek, symmetrical lightweight handle for exceptional balance and control. Squeeze action mechanism works tips.

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 122mm



E-Range Cross Action - Inamura

1.5mm Incision

The Inamura Capsulorhexis Forceps incorporate a visible scale marked at the functional end of the tips that denotes the desired diameter and radius of the capsulorhexis. It has been found that measuring on the corneal surface overestimates the actual size of the capsulorhexis when measured within the anterior chamber by up to 20%. Keeping the pivot in the incision reduces the leakage from the anterior chamber. It also enables the tips to operate fully at the smaller incision sizes without stretching the incision and causing corneal deformation.

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.

SMOOTH ACTION

Titanium instrumentation with three pivot point precision provides the highest quality with a smooth controlled action.

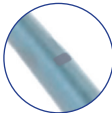
MICRO INCISION SIZE

Designed to fit comfortably through any incision down to 1.5mm.

TIP LENGTH

Options include 8.5mm (Corneal) or 9.5mm / 10.5mm (Scleral).



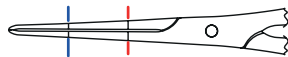





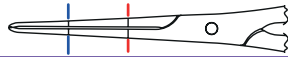
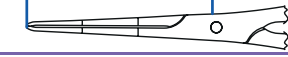


MARKED SCALE



HANDLE TYPES

Round and flat handles available.

COMPARISON CHART

Inamura Capsulorhexis Forceps		1.5mm Incision				
Product Number	2-716GNE	2-716GN-2E	2-716GN-3E	2-716GN-4E	2-716GN-5E	
Handle Type All Handle Lengths = 110mm	 Flat Handle					
Width at Pivot Box 1.2mm						
Marks on Shaft 2.5mm & 5mm						
Tip to Pivot Length		8.5mm	8.5mm	9.5mm	9.5mm	10.5mm
 90° Extra Sharp		✓		✓		
 45° Sharp	✓		✓		✓	
Product Number	2-716GNR8E	2-716GNR8-2E	2-716GNR8-3E	2-716GNR8-4E	2-716GNR8-5E	
Handle Type All Handle Lengths = 110mm	 Round Handle					
Width at Pivot Box 1.2mm						
Marks on Shaft 2.5mm & 5mm						
Tip to Pivot Length		8.5mm	8.5mm	9.5mm	9.5mm	10.5mm
 90° Extra Sharp		✓		✓		
 45° Sharp	✓		✓		✓	

Design registration number 004383396-0001

This range represents the application of cutting edge technology fused with over 60 years of engineering knowledge. These instruments offer surgeons an elegant, well balanced and ergonomically designed handle while still providing our high quality, consistent and durable functionality.

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

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.

SMOOTH ACTION

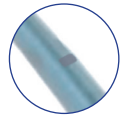
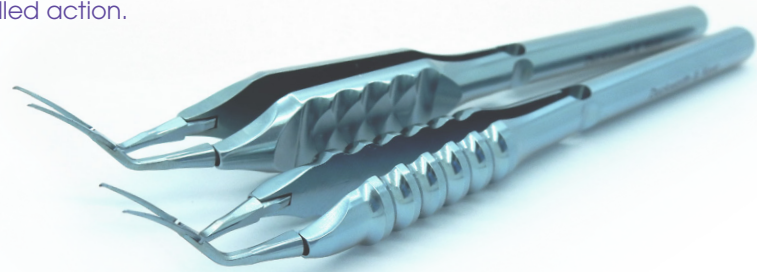
Titanium instrumentation with three pivot point precision provides the highest quality with a smooth controlled action.

SMALL INCISION SIZE

Designed to fit comfortably through any incision down to **1.8mm**.

HANDLE TYPES


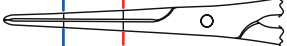

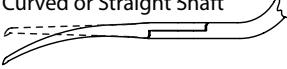

Round, flat, long, short handles available.


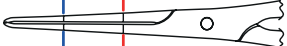
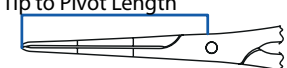
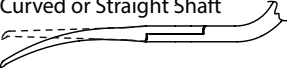



COMPARISON CHART

Inamura Capsulorhexis Forceps

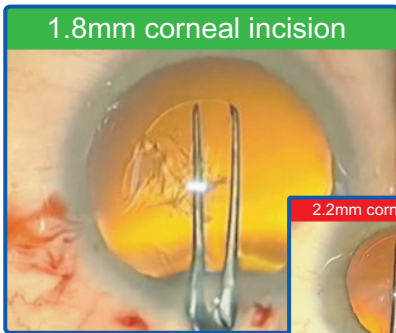
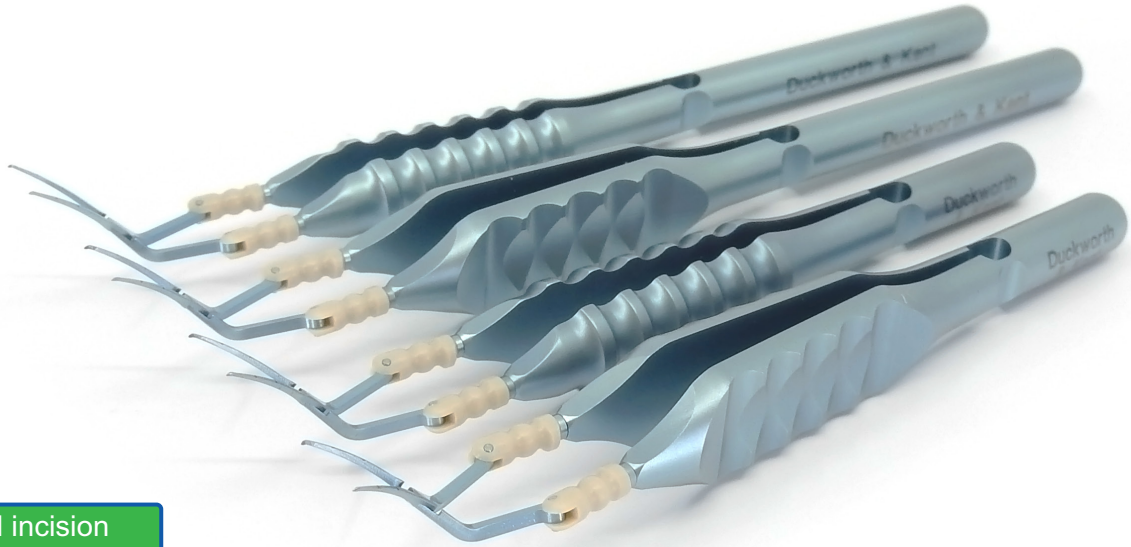
1.8mm Incision

Product Number	2-716GE	2-716GE-1	2-716GE-1S	2-716GE-2	2-716GE-3
Handle Type - Flat Long or Short	Long - 110mm	Long - 111mm	Short - 86mm	Long - 110mm	Long - 110mm
Width at Pivot Box 1.5mm 	✓				
Marks on Shaft 2.5mm & 5mm 	✓				
Tip to Pivot Length 	9.5mm	10.5mm		8.5mm	9.5mm
Curved or Straight Shaft 	Curved				Straight
All Tips - Angled 45° - Sharp - Serrated 	✓				






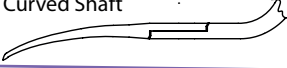

Product Number	2-716GER8	2-716GER8-1	2-716GER8-1S	2-716GER8-2	2-716GER8-3
Handle Type - Round Long or Short	Long - 110mm	Long - 111mm	Short - 86mm	Long - 110mm	Long - 110mm
Width at Pivot Box 1.5mm 	✓				
Marks on Shaft 2.5mm & 5mm 	✓				
Tip to Pivot Length 	9.5mm	10.5mm		8.5mm	9.5mm
Curved or Straight Shaft 	Curved				Straight
All Tips - Angled 45° - Sharp - Serrated 	✓				

Design registration number 004383396-0001

E-Range Cross Action - Calladine-Inamura



COMPARISON CHART

Calladine-Inamura Capsulorhexis Forceps		Corneal Incision 1.8mm Incision		
Product Number	2-716G-9E	2-716G-9SE	2-716G-9RE	2-716G-9RSE
Handle Type	 Flat Handle		 Round Handle	
Handle Length Long Handle 115mm	✓		✓	
Handle Length Short Handle 90mm		✓		✓
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 			✓	

Design registration number 004383396-0001

Utilising the smooth action of the Inamura cross action capsulorhexis forceps, the new Calladine-Inamura Capsulorhexis Forceps incorporate a visible scale marked 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%. The cross action design means that the forceps are 1.5mm wide at the pivot point which enables a greater degree of movement within the incision.



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.

SMOOTH ACTION

Titanium instrumentation with three pivot point precision provides the highest quality with a smooth controlled action.

TIP LENGTH

Options include **10mm (Corneal)** or **11mm (Scleral)**.




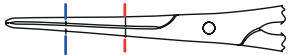



SMALL INCISION SIZE

Designed to fit comfortably through any incision down to **1.8mm**.

HANDLE TYPES

Round, flat, long, short handles available.

COMPARISON CHART

Calladine-Inamura Capsulorhexis Forceps		Scleral Incision		1.8mm Incision	
Product Number	2-716G-8E	2-716G-8SE	2-716G-8RE	2-716G-8RSE	
Handle Type	 Flat Handle		 Round Handle		
Handle Length Long Handle 115mm	✓		✓		
Handle Length Short Handle 90mm		✓		✓	
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 			✓		

Design registration number 004383396-0001

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

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.

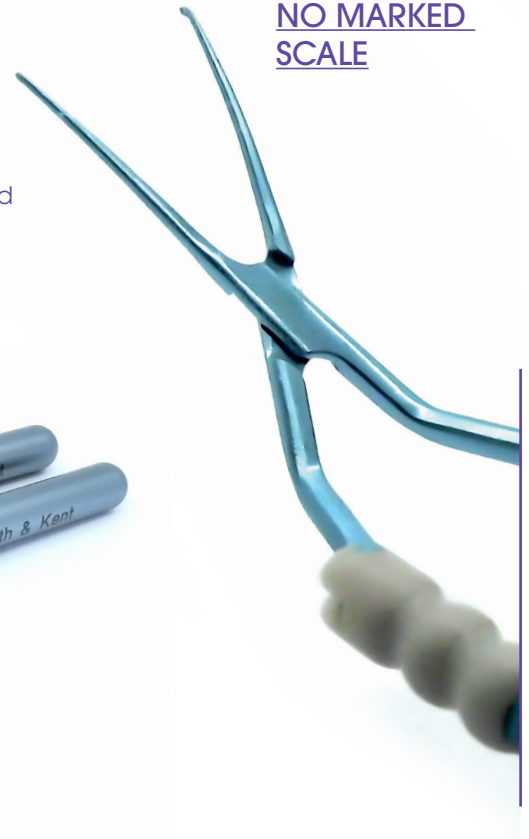
SMOOTH ACTION

Titanium instrumentation with three pivot point precision provides the highest quality with a smooth controlled action.

SMALL INCISION SIZE

Designed to fit comfortably through any incision down to **1.8mm**.






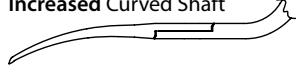




NO MARKED SCALE



HANDLE TYPES

Round and flat handles available.

COMPARISON CHART

Mackool-Inamura Capsulorhexis Forceps			1.8mm Incision	
Product Number	2-706GE	2-706G-1E	2-706GRE	2-706G-1RE
Handle Type	 Flat Handle		 Round Handle	
Handle Length Long Handle 116mm			✓	
Marks on Shaft 			✗	
Width at Pivot Box 1.5mm 			✓	
Tip to Pivot Length 11mm 			✓	11mm
Increased Curved Shaft 			✓	
	 Blunt	 Pointed	 Blunt	 Pointed

Design registration number 004383396-0001

Accurate capsulorhexis size is crucial for optimal IOL implant function. Dr Jones has augmented the Inamura cross action capsulorhexis forceps by adding a marked scale from the tip to 6mm along the shaft at 1mm increments to enable the surgeon to measure the size of the capsulorhexis more precisely.

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.

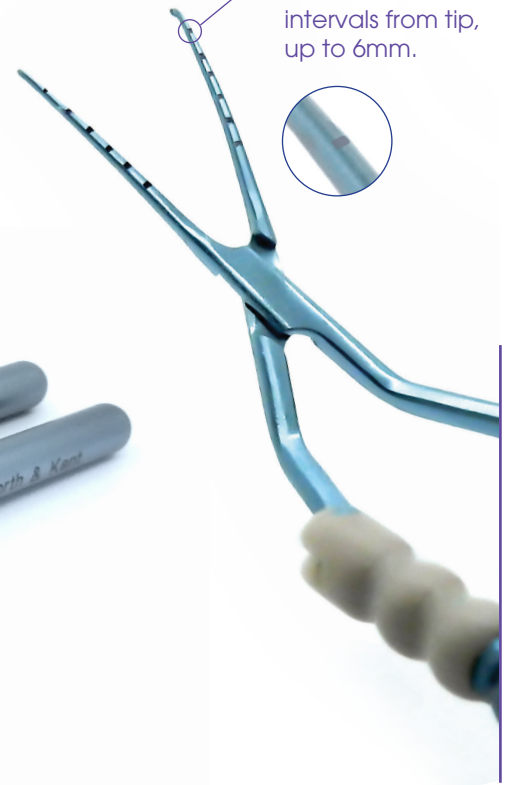
SMOOTH ACTION

Titanium instrumentation with three pivot point precision provides the highest quality with a smooth controlled action.

SMALL INCISION SIZE

Designed to fit comfortably through any incision down to **1.8mm**.



MARKED SCALE
Marks at 1mm intervals from tip, up to 6mm.



HANDLE TYPES

Round and flat handles available.

COMPARISON CHART

Jones-Inamura Capsulorhexis Forceps		1.8mm Incision
Product Number	2-716G-10E	2-716G-10RE
Handle Type	 Flat Handle	 Round Handle
Handle Length 115mm	✓	
Width at Pivot Box 1.5mm	✓	
Marks on Shaft 1mm - 6mm	✓	
Tip to Pivot Length 11mm	✓ 11mm	
Curved Shaft	✓	
All Tips - Angled 45° - Sharp - Serrated	✓	

Design registration number 004383396-0001

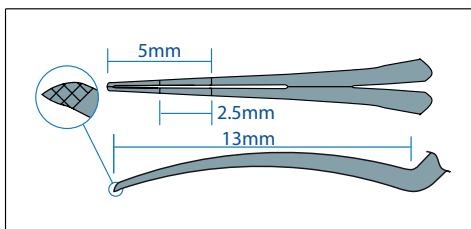
E-Range Direct Action - Utrata



2-712-3ER8

Utrata Capsulorhexis Forceps - Curved Shafts

Design registration number 004383396-0001



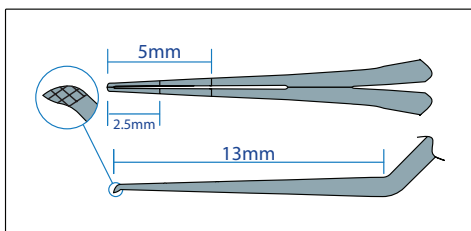
- Utrata style tips
- Curved shafts, tip to curve length 13mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Round handle, overall length 111mm

Product No.	Product Name	Handle Type	Variation
2-712-4ER8	Utrata Capsulorhexis Forceps - Curved Shafts	Long Round Handle	1mm increment marks

2-714-3ER8

Utrata Capsulorhexis Forceps

Design registration number 004383396-0001



- Utrata style tips
- Straight shafts, tip to angle length 13mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Round handle, length 111mm

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.

HANDLE TYPES

Round, flat, long, short handles available.

UTRATA STYLE 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.

SMALL INCISION SIZE

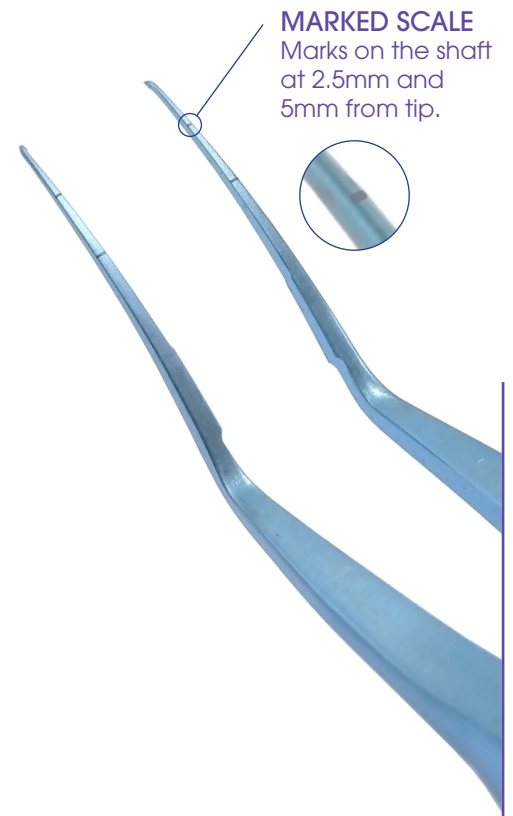
Designed to fit comfortably through any incision down to **2.2mm**.

IRIS STOP PLATFORMS

To stop the shafts of the forceps completely closing when tips are closed.

DIRECT ACTION

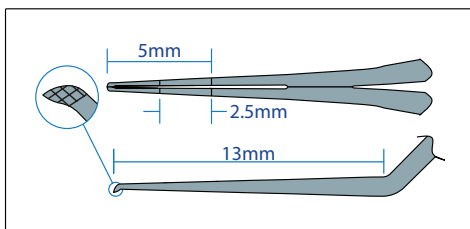
Incision size restricts opening of tips. Recommend incision size of 3.0mm or greater for adequate opening of tips.



2-719-3E

Utrata Capsulorhexis Forceps - Straight Shafts

Design registration number 004383396-0001



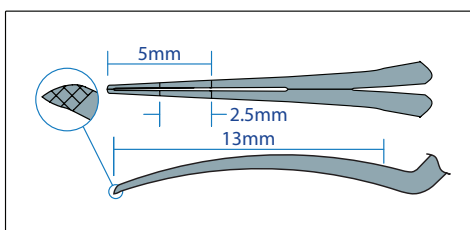
- Utrata style tips
- Straight shafts, tip to curve length 13mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Flat handle, overall length 86mm



Product No.	Product Name	Handle Type	Variation
2-719-4E	Utrata Capsulorhexis Forceps - Straight Shafts	Long Flat Handle	Long Handle

2-718-3E

Utrata Capsulorhexis Forceps

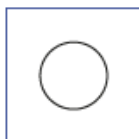


- Utrata style tips
- Curved shafts, tip to angle length 13mm
- Marks on shaft 2.5mm and 5mm denote desired size of capsulorhexis
- Flat handle, length 86mm



CCC Marker

9-518-1



Mark Made

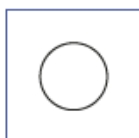
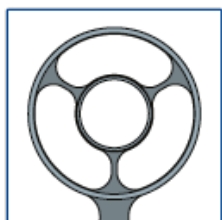


Fujimoto CCC Guide, Ø5.3mm

- 12mm diameter outer ring
- Inner capsulorhexis guide **5.3mm** diameter ring
- Smooth surface to mark cornea
- Fixed flat handle, overall length 99mm

CCC Marker

9-518-2



Mark Made

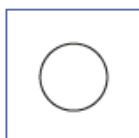


Fujimoto CCC Guide, Ø5.6mm

- 12mm diameter outer ring
- Inner capsulorhexis guide **5.6mm** diameter ring
- Smooth surface to mark cornea
- Fixed flat handle, overall length 99mm

CCC Marker

9-518-2R



Mark Made



Fujimoto CCC Guide, Ø5.6mm

- 12mm diameter outer ring
- Inner capsulorhexis guide **5.6mm** diameter ring
- Smooth surface to mark cornea
- Fixed round handle, overall length 99mm

CCC Markers

CCC Marker

9-518-3



Mark Made



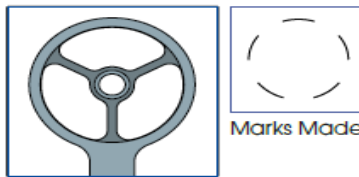
Ota-Fujimoto CCC Marker, Ø5.6mm

- **5.6mm** diameter ring, low profile with centre pointer
- Round handle, overall length 94mm

CCC Marker

Best Seller

9-518-4



Marks Made



Donoso Capsulorhexis Marker, Ø6.5mm

- Castellated ring which marks five segments of a 6.5mm diameter on the cornea, approximating to a 5.5mm diameter capsulorhexis
- Round handle, overall length 125mm

Sterilizing Trays

Mr. Phaco® DK7003

- Holds 6 instruments
- Size = 6.8" x 4.3" x 1"
- Snap lid
- One Silicone mat
- Hard Plastic, reusable



Mr. Phaco® T7003-1

- Holds 4 instruments
- Size = 6.3" x 2.75" x 1"
- Snap lid
- One Silicone mat
- Hard Plastic, reusable



Mr. Phaco® T7000

- Suitable for 2 diamond knives
- Size = 6" x 2.5" x 0.75"
- Snap lid
- Two Silicone bars
- Hard Plastic, reusable



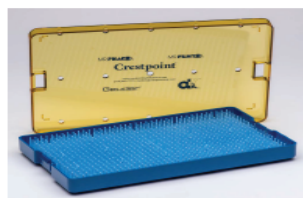
Mr. Phaco® T4710

- Holds 2 injectors
- Size = 4" x 7.5" x 1.25"
- Snap lid
- One Silicone mat
- Hard Plastic, reusable



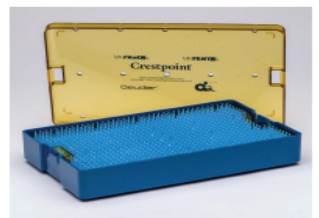
Mr. Phaco® T7010

- Holds 10 instruments
- Size = 1.4" x 6.4" x 1"
- Snap lid
- One Silicone mat
- Hard Plastic, reusable



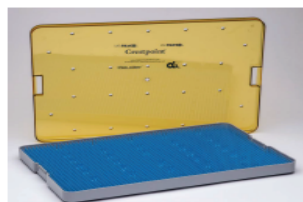
Mr. Phaco® T7010-2

- Holds 20 instruments
- Size = 10.4" x 6.4" x 1.8"
- Snap lid
- Two Silicone mats
- Second internal middle tray
- Hard Plastic, reusable



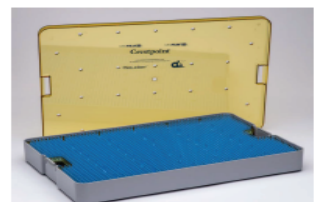
Mr. Phaco® T7020

- Holds 20 instruments
- Size = 10.4" x 6.4" x 1"
- Snap lid
- One Silicone mat
- Hard Plastic, reusable



Mr. Phaco® T7020-2

- Holds 40 instruments
- Size = 15.5" x 10.5" x 2"
- Snap lid
- Two Silicone mats
- Second internal middle tray
- Hard Plastic, reusable



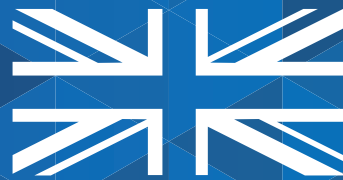
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