Microincision cataract surgery (MICS) is a variation of cataract surgery through incision less than 1.8mm with the intentional aim being a reduction in surgical invasiveness, while also improving the overall surgical outcomes. The main advantages of MICS include the control and avoidance of surgically induced corneal astigmatism and the decrease of postoperative corneal aberrations.

**9-588-3 - Lieberman Adjustable Speculum**

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

**2-100 - Pierse Notched Forceps**

- Pierse 0.25mm notched, 6mm tying platforms
- Straight shafts
- Standard handle, length 85mm

**2-132 - DK Troutman Barraquer Colibri Forceps**

- 0.12mm, 1 x 2 teeth, tip length 2mm
- 6mm tying platforms
- Colibri style shafts
- Standard handle, length 84mm

**1.8mm and 2.2mm Incision Diamond Knives**

Angled Retractable Diamond Knives

Angled retractable knives feature gem quality diamonds mounted in a fully titanium handle at an angle of 45°. All handles feature a blade retraction system, to guard the blade whilst not in use and during sterilisation procedures.

This style of knife is used for creating main incisions. Example, during phaco surgery. Many blade configurations are available, but may not be listed in our product range. For surgeons with special requests please contact Duckworth & Kent directly.
**Capsulorhexis Forceps**

**2-847-4 - DK Squeeze handle Capsulorhexis Forceps - 1mm Incision**

- Fine pointed tips with platforms
- 0.9mm tip opening
- Curved 23 gauge tube
- Squeeze action activates both jaws
- Round squeeze handle, length 123mm

**2-716GNR8 - Inamura Round Handle Capsulorhexis Forceps - 1.5mm Incision**

- Sharp pointed serrated tips angled 45° from shaft
- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Curved shaft, tip to pivot point 8.3mm
- Cross action tips, 1.2mm width at pivot box
- Round handle, overall length 111mm

Designed to fit comfortably through any incision down to 1.5mm. Precise interlocking serrated tips with a sharp point enable the surgeon to initiate the capsule tear then securely grasp the capsule to perform the capsulorhexis. Designed specifically for corneal placed incisions, tip to pivot length reduced to 8.5mm. 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.

**2-2-716G-9R - Calladine-Inamura Round Handle Capsulorhexis Forceps - 1.8mm Incision**

- Pointed serrated interlocking tips
- Curved shaft, tip to pivot point 10mm
- Marks on shaft at 2.5mm and 5mm denote desired size of capsulorhexis
- Cross action tips, 1.5mm width at pivot box
- Tips angled 45° to handle
- Round handle, overall length 120.5mm

Utilizing 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%. 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.
The procedure allows the surgeon to mechanically divide the nucleus through a 1.8mm incision prior to placing the phaco tip into the eye. This easy technique eliminates grooving or sculpting with the phaco tip, thereby removing the risk of rupturing the posterior capsule during this procedure.

The recent designs of prechoppers have made the procedure easier, safer and can be done on any grade of nuclei. The PreChopper Forceps have two flat blades which are closed during entry into the nucleus, but can separate once inside the nucleus. The current design of prechoppers have a combo tip that features a sharp angled edge on one side of the blade and a rounded blunt edge on the other side. The angled blade is usually used for the initial insertion and for rotating the bisected nuclear fragments. The rounded blade is used not only for prechopping very soft nuclei, but also for ascertaining the complete nuclear split close to the posterior capsule. If resistance is felt the Akahoshi Nucleus Sustainer (6-095) can be used as a second instrument to stabilize the nucleus and provide counter-traction, common in cases of harder nuclei. This technique of supporting the nucleus during PreChop is also used in complicated cases, such as week zonules.

6-085 - Barrett Duo Nucleus Rotator / Manipulator / Splitter

Nucleus splitter
- Straight, sharp inner / outer sides of tip, tip length 1.25mm
- Cutting Edge 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 123mm

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.

8-652 / 8-652S DK Irrigation Handpiece

- 23 gauge, 0.65mm tube diameter
- Two 0.4mm irrigation ports
- Curved shaft, tube length 15mm
- Round handle, length 107mm (8-652)
- Round handle, length 61mm (8-652S)
The cannula was initially designed for hydrodissection and nucleus rotation. With traditional single port cannula, single injection is not enough to complete the hydrodissection. However, with the Inamura Multipurpose Cannula the double port of fluid swiftly separates the cataract from the lens capsule, and in most cases the nucleus can be rotated after a single injection. Fluid is injected directly underneath the anterior capsule. The smooth rounded cannula end enables the rotation of the nucleus and reduces any risk of damage to the capsule bag.

**T7010 - Sterilising Tray (suitable for 10 instruments)**

- External dimensions: 26.4cm x 16.2cm x 2.6cm
- Internal dimensions: 25.4cm x 15.2cm x 1.8cm (without silicone mat)
- Suitable for 10 instruments
- One silicone mat