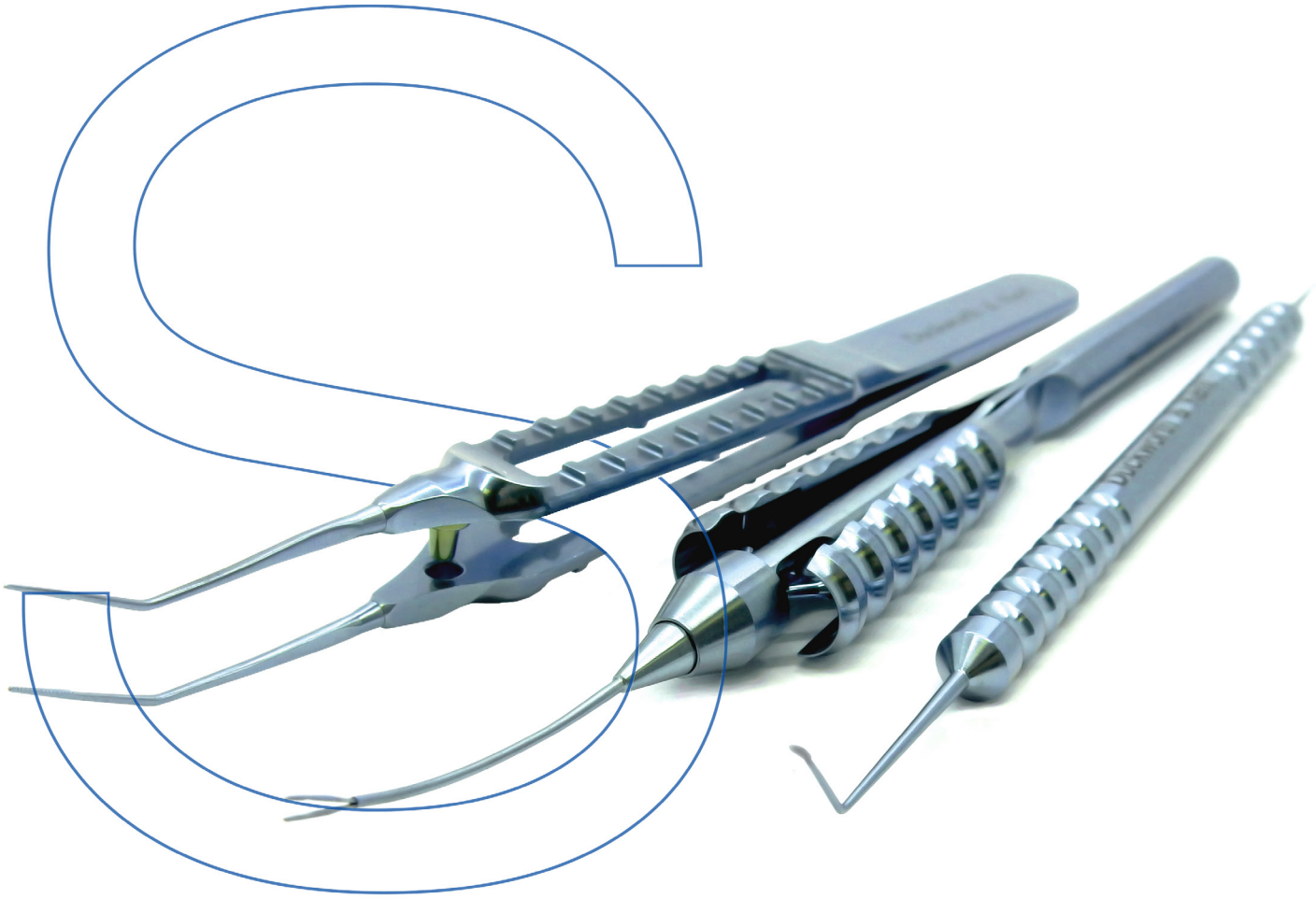
Duckworth & Kent Ltd.

titanium surgical instrument manufacturer

at the leading edge

Crestpoint OPHTHALMICS

SMILE Instruments



The ReLEx™ SMILE Procedure

Is a refractive correction procedure from Carl Zeiss Meditec AG, which is carried out in a single step with a femtosecond laser, without the need to cut a flap.

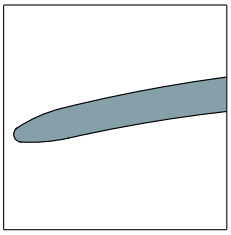
The femtosecond laser creates a refractive lenticule (a thin round section of corneal tissue formed by creating a lower then upper femtosecond laser pass) in the centre of the cornea.

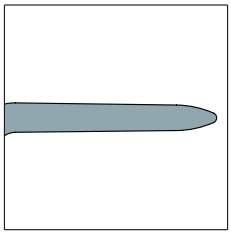
A small incision, less than 4mm, is then made in an otherwise intact cornea. The lenticule is then released from the cornea by using a fine spatula (6-835, 6-836 or 6-836-1) and then removed through the small incision using a fine pair of forceps (2-836).

The removal of the lenticule has now permanently reshaped the cornea to correct the refractive error.

Find us on

6-835 SMILE Double Ended Dissector

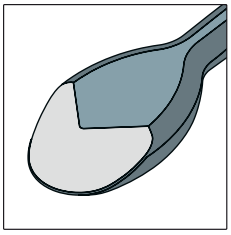


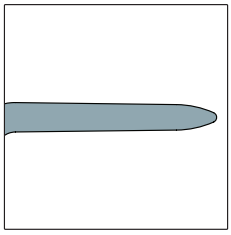


- 0.4 diameter bullet shaped tip
- 60° angled curved shaft, tip to angle length 9.5mm
- Laser markings on angled shaft at 7mm, 7.5mm and 8mm

- 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

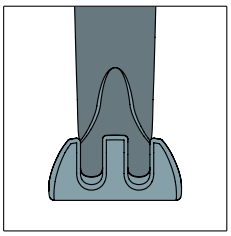


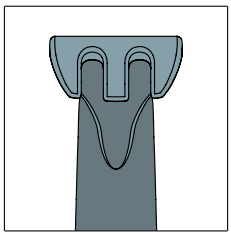


- 1.25 x 0.35mm spoon-shaped tip
- 70° angled curved shaft, tip to angle length 9.5mm
- Laser markings on angled shaft at 7mm, 7.5mm and 8mm

- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, length 116mm

6-837 SMILE Lenticule Hook

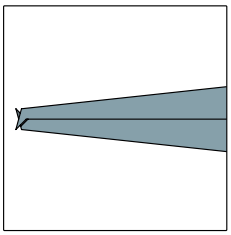




- 1mm wide 3 pronged hook tip up and tip down
- 70° angled shaft, tip to angle length 10mm
- Round handle, length 123mm

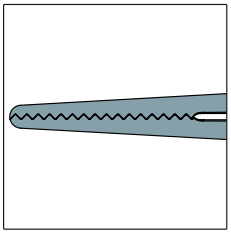
2-114E Castroviejo Suturing Forceps

Design registration number 004383396-0001



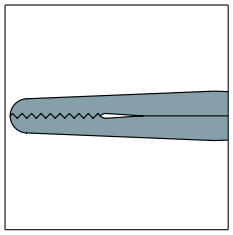
- 0.12mm, 1 x 2 teeth, 6mm tying platforms
- Straight shafts
- Flat handle, length 115mm

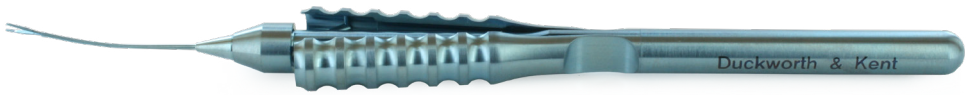
2-836E SMILE Lenticule Removal Forceps



- 4mm long serrated jaws
- 30° angled shafts
- Flat long handle, length 115mm

2-837 SMILE Lenticule Removal Forceps, 23 Gauge

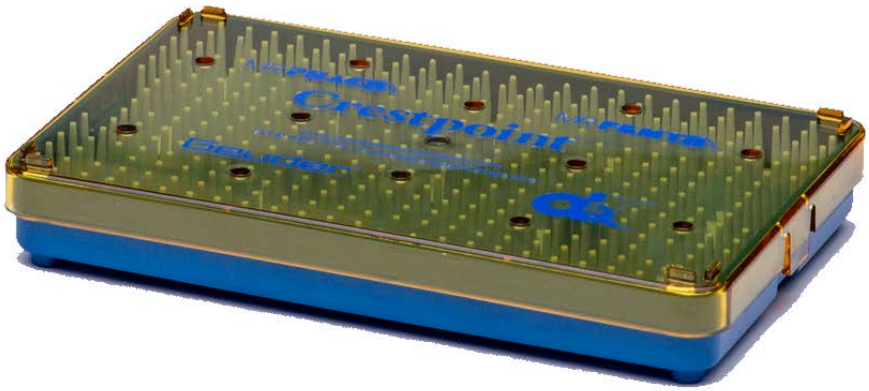




- Delicate serrated jaws with blunt tip, tip length 3mm
- Curved 23 gauge tube
- Squeeze handle activates both jaws
- Round squeeze handle, length 127mm

DK7003 Sterilising Tray (for 6 instruments)

- External dimensions: 173mm x 110mm x 25mm
- Suitable for 6 instruments
- One silicone mat

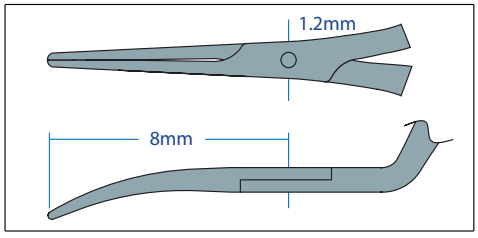


Chan SMILE Instruments

SMILE Parting Technique

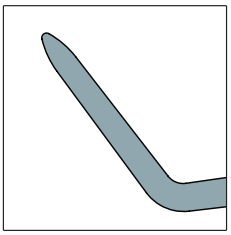
This technique involves inserting the dissecting forceps into the pocket created by the femtosecond laser, which on parting, completes dissection of each dissection plane in turn. The forceps can also be used to extract the lenticule, minimising instrumentation in and out of the pocket.
Patient comfort is improved as eye movement is minimised. There is no need for fixation forceps, when there is counter traction provided by the opposing arms of the dissection forceps. The surgery is more consistent from the surgeon's point of view, even when the dissection is suboptimal, as a result, day 1 vision is more constant.
Dr Ian Chan, Perth, Australia

2-839 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

6-839 SMILE Short Dissector



- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, overall length 112mm

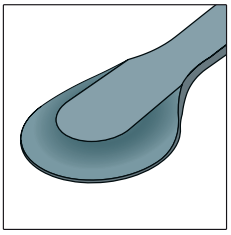
Demonstrational Video

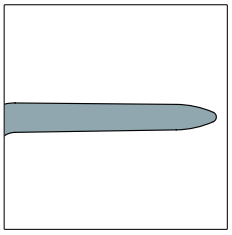
Scan the QR code to view our Chan videos, or visit us on our YouTube channel DuckworthandKent

Instrument video

Parting Technique

6-836-1 SMILE Double Ended Dissector with Taneri Spoon Tip

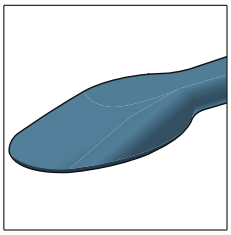


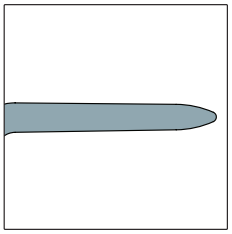


- 1.25 x 0.3mm semi-sharp spoon-shaped tip
- 60° angled straight shaft, tip to angle length 8.5mm
- Laser markings on angled shaft at 7mm, 7.5mm and 8mm

- 0.25 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, length 116mm

6-836-2 Reinstein Lenticule Separator





- 1.25 x 2.0mm smooth spoon-shaped tip
- 90° curved shaft, tip to angle length 8.5mm

- 0.22 diameter bullet shaped tip
- 60° angled shaft, tip to angle length 2mm
- Round handle, length 114mm

This surgical instrument developed with Professor Dan Reinstein has enabled a surgical technique for SMILE to be performed with one instrument, entering the eye only once through one incision, using only one sweep per plane, and taking about 30 seconds to separate and withdraw the lenticule. This technique minimizes the risk of infection by using only one instrument, inserted only once into the stromal interface. This technique also minimizes trauma to the stromal interfaces, improving day 1 uncorrected vision over other lenticule extraction techniques that require more corneal manipulation.m

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