



SETS OF INSTRUMENTS FOR
CORNEAL PROCEDURES

INTRODUCTION

The last decades have brought a revolutionary shift in the treatment of corneal endothelial disease. 15 years ago, the only surgical treatment for corneal disorders was penetrating keratoplasty. Although used successfully for over a century, penetrating keratoplasty requires many months of refractive adjustments before the eye achieves visual stability. Starting with the advent of posterior lamellar keratoplasty, a number of procedures have been developed, refined, and widely adopted, which have given patients faster recoveries and improved globe stability in comparison to traditional corneal transplantation. Each iteration of endothelial keratoplasty has involved the increasingly selective transplantation of corneal endothelial cells.

Constantly tracking the latest developments in the eye surgery, we at Rumex have designed a lineup of top quality instruments for all up to date techniques of corneal transplantation.

All instruments in this brochure are organized as sets according to the procedures of penetrating and lamellar keratoplasty. Sets are advisory, and if your surgical technique or professional preference require a customized set, you can easily modify it by picking necessary instruments from a wide range of Rumex products.

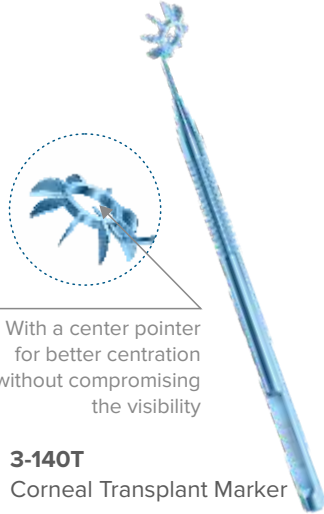


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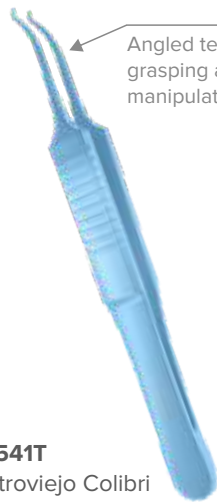
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CORNEAL TRANSPLANTATION SET – PENETRATING KERATOPLASTY

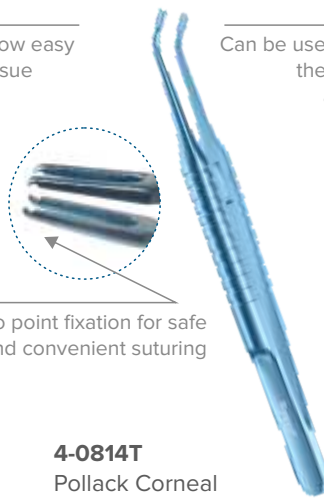
Full-thickness corneal transplant procedure aimed at making a full-thickness resection of the patient's cornea, followed by placement of a full-thickness donor corneal graft.



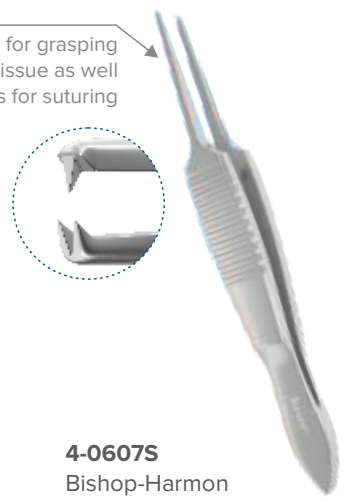
3-140T
Corneal Transplant Marker



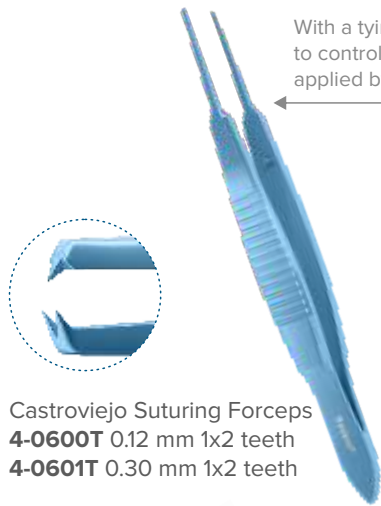
4-0541T
Castroviejo Colibri
Corneal Forceps
0.12 mm 1x2 teeth



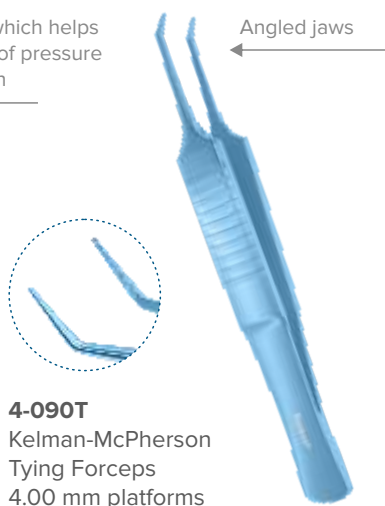
4-0814T
Pollack Corneal
Transplantation
Fixation Forceps



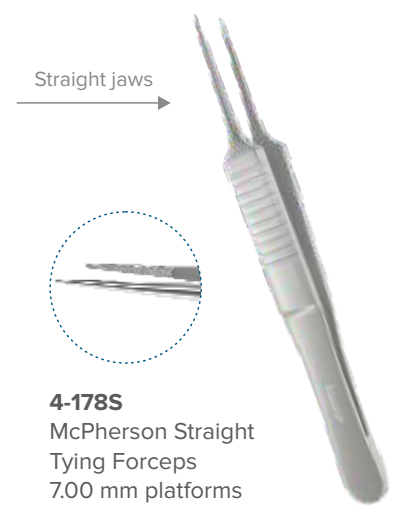
4-0607S
Bishop-Harmon
Suturing Forceps
0.30 mm 1x2 teeth



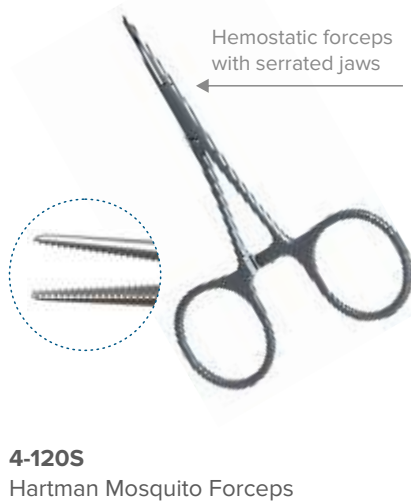
Castroviejo Suturing Forceps
4-0600T 0.12 mm 1x2 teeth
4-0601T 0.30 mm 1x2 teeth



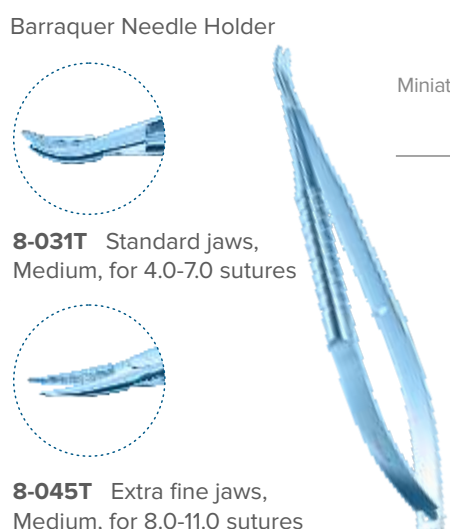
4-090T
Kelman-McPherson
Tying Forceps
4.00 mm platforms



4-178S
McPherson Straight
Tying Forceps
7.00 mm platforms

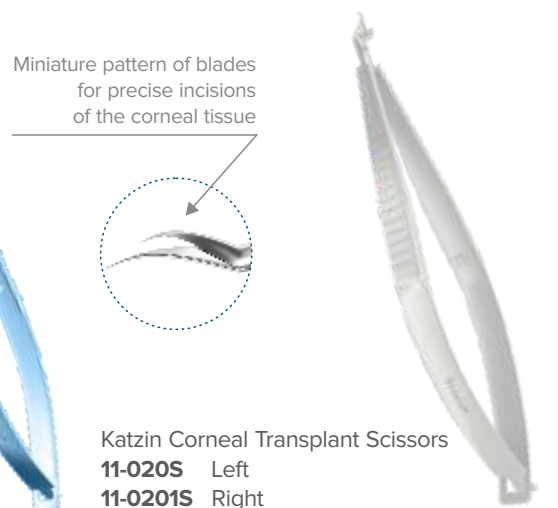


4-120S
Hartman Mosquito Forceps



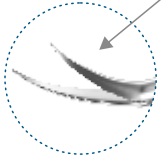
8-031T Standard jaws,
Medium, for 4.0-7.0 sutures

8-045T Extra fine jaws,
Medium, for 8.0-11.0 sutures



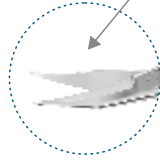
Katzin Corneal Transplant Scissors
11-020S Left
11-021S Right

Uneven blades accommodate the curvature and thickness of the cornea



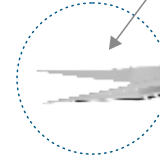
Castroviejo Corneal Section Scissors
11-024S Right
11-0241S Left

Blunt tips



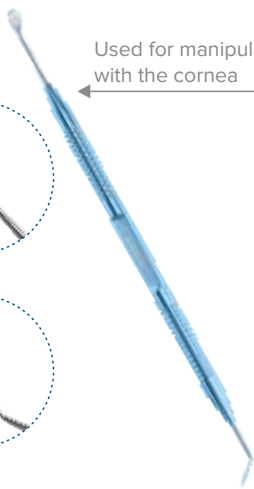
11-040S
 Westcott Curved Tenotomy Scissors

Sharp pointed tips

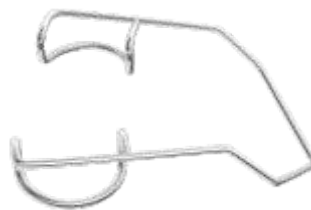


11-044S
 Westcott Stitch Scissors

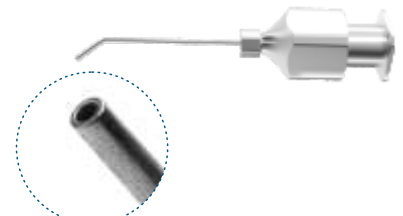
Used for manipulations with the cornea



13-110
 Paton Double Ended Spatula and Spoon



14-022S
 Barraquer Wire Speculum
 Adult size



15-051-25
 Rycroft Anterior Chamber Cannula
 25 Ga



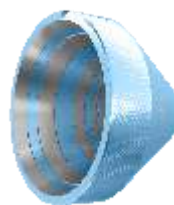
14-040T
 Lieberman Temporal Speculum



16-081S
 Towel Forceps



15-301/303
 Silicone Bulb With Adapter



16-020T
 Maloney Intraoperative Keratometer
 Facilitates qualitative measurement of astigmatism after suturing the donor cornea



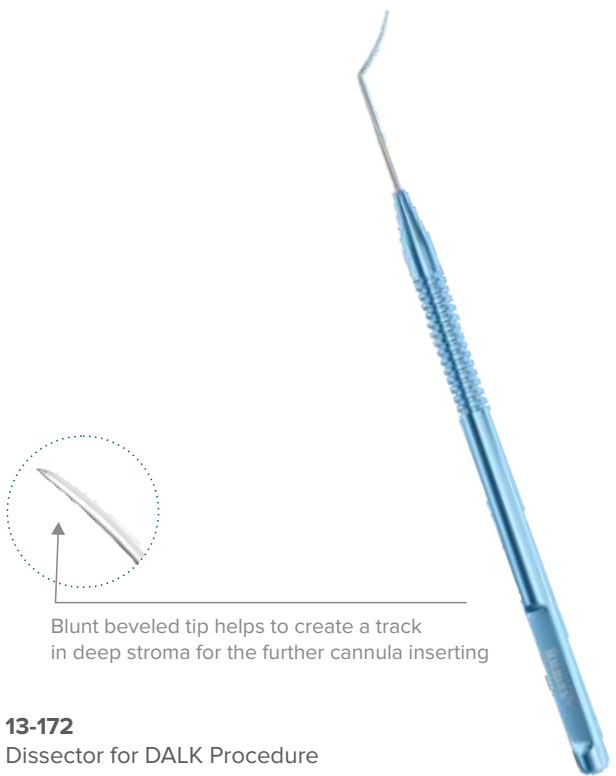
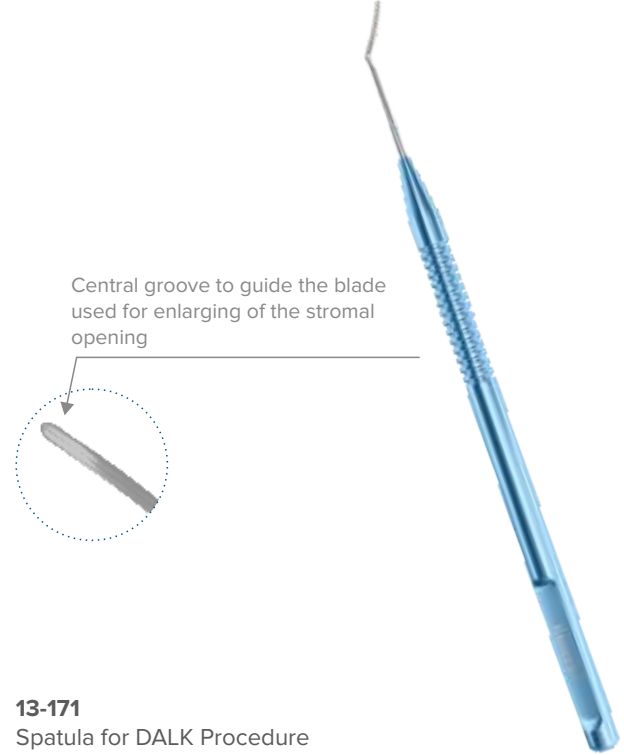
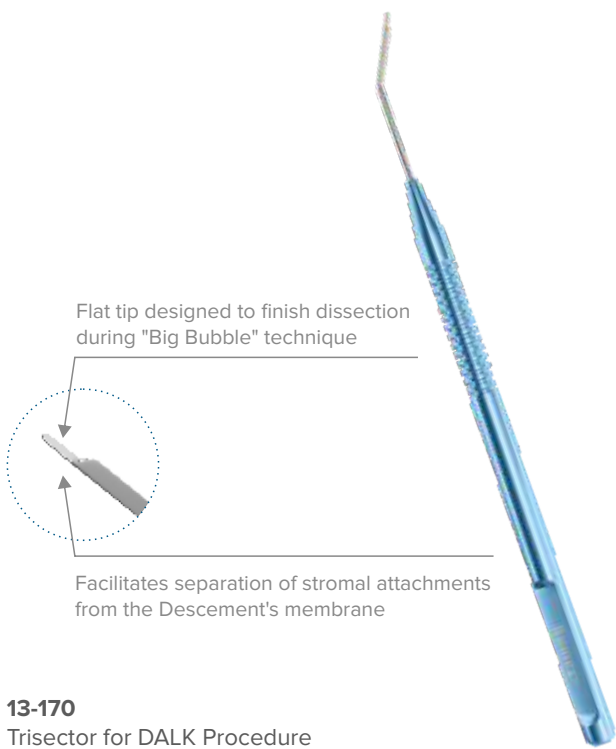
Corneal Trephine Blades
16-0305 7.50 mm
16-0307 8.00 mm

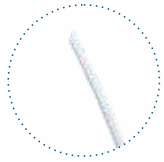
***18-305**
 Plastic Sterilizing Tray
 Double level, Large

*not shown

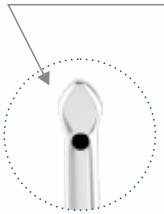
DEEP ANTERIOR LAMELLAR KERATOPLASTY (DALK) SET

Partial-thickness cornea transplant procedure allows to perform selective transplantation of the corneal stroma, leaving the native Descemet's membrane and endothelium in place.





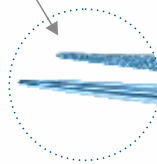
Allows to achieve ideal "Big Bubble"



15-450-27
Cannula for DALK Procedure
27 Ga



Extra delicate tips for 9.0-11.0 sutures



Tennant Tying Forceps
4-185S Straight, Stainless Steel
4-186S Curved, Stainless Steel
4-185T Straight, Titanium

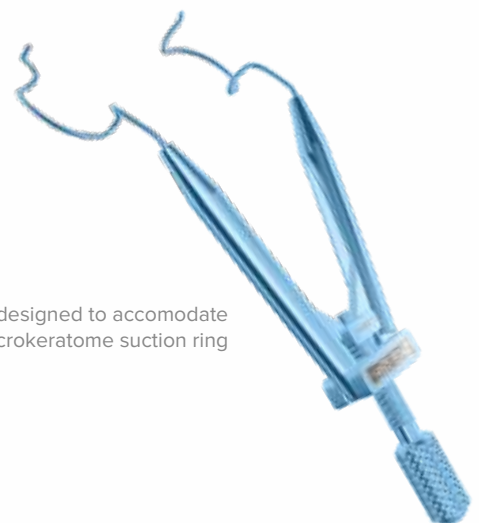


Extra fine jaws suitable for 8.0-11.0 sutures

Barraquer Needle Holder
8-024T
Extra fine jaws 8.00 mm,
Curved with lock,
Small size, Titanium
8-025T
Extra fine jaws 8.00 mm,
Curved without lock,
Small size, Titanium



Specially designed to accommodate microkeratome suction ring



14-040TL
Lieberman Temporal Speculum
Rounded blades

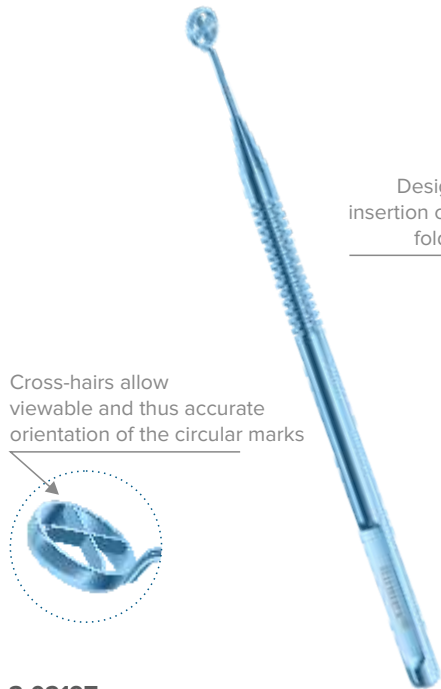
***18-304**
Plastic Sterilizing Tray
Single level, Large

*not shown

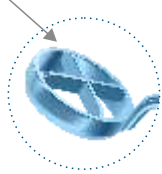
ENDOTHELIAL TRANSPLANTATION SET

Endothelial transplantation includes several small incision techniques targeted at the replacement of defective inner layers of the cornea with healthy donated tissue:

- DSEK (Descemet Stripping Endothelial Keratoplasty),
- DSAEK (Descemet Stripping Automated Endothelial Keratoplasty),
- DMEK (Descemet Membrane Endothelial Keratoplasty).

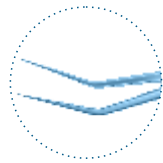
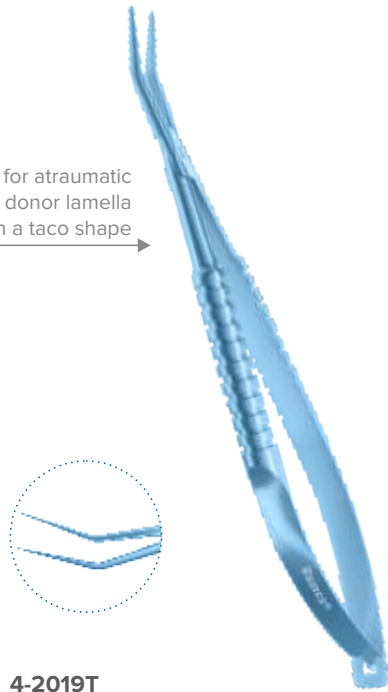


Cross-hairs allow viewable and thus accurate orientation of the circular marks



3-0219T
Hoffer Optical Zone Marker
9.00 mm

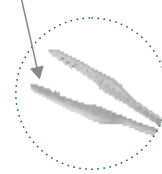
Designed for atraumatic insertion of the donor lamella folded in a taco shape



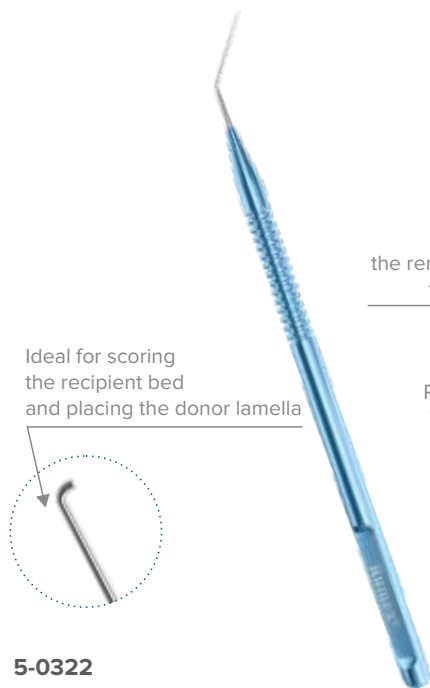
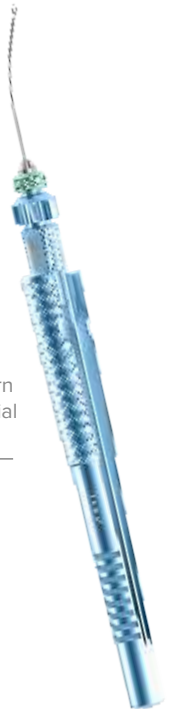
4-2019T
Corneal Donor Insertion Forceps

4-034*
Forceps for Corneal Endothelium Implantation

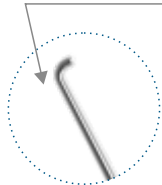
Delicate serration pattern helps to avoid endothelial cell damage



12-003T
Universal Instrument Handle



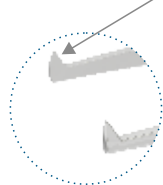
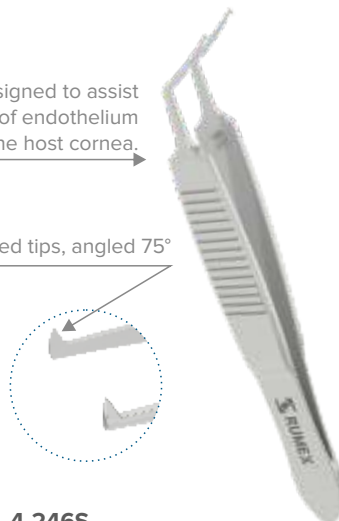
Ideal for scoring the recipient bed and placing the donor lamella



5-0322
Reversed Sinskey Hook

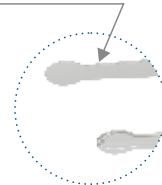
Designed to assist the removal of endothelium from the host cornea.

Reversed tips, angled 75°



4-246S
Florakis Endothelial Forceps
Available as microincisional instrument under 4-247

Highly polished broad tips allow to peel the endothelium membrane safely without risk of tearing



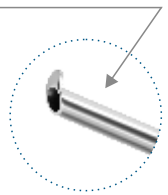
4-240
Guell DMEK Forceps



*Tip only

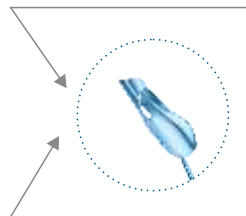
The irrigation tube is maintaining the chamber during the procedure, thereby reducing the dependence on viscoelastics.

Thin, semi-circular tip angled 90° upward from the irrigation tube is used to gently peel and remove the endothelial layer.



13-139/I
Endothelial Stripper Irrigating

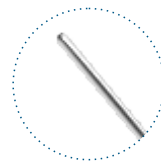
The unique design of the tool facilitates folding donor lamella in a taco shape



Exquisitely polished surface eliminates the risk of graft failure

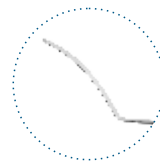
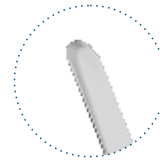
13-150T
Spatula-Guide for Corneal Endothelium Implantation

Designed to smooth out interface between stromal surface and DSEK graft



13-151S
Cindy Sweeper DSEK Spatula

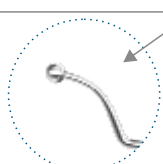
Used to dissect or separate stromal tissue



13-137
Corneal Dissector Straight
13-138
Corneal Dissector Curved

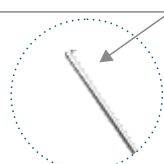
Angled broad smooth tip with sharp edge can be used to score and take out the host Descemet membrane

Ball shaped tip, when pressed, allows to remove the fluid between the replacement bed and the DSEK graft

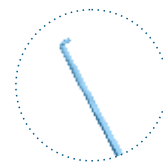


13-152S
Carlson DSEK Smoother

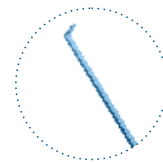
Used to roughen gently the inner stromal surface of the cornea



13-153S
Terry DSEK Scraper



13-155T
Melles DSAEK PLK Scraper 90 degree



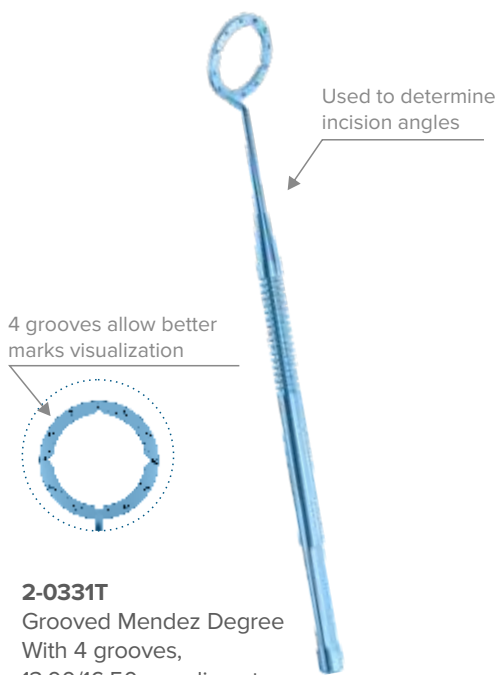
13-154T
Melles DSAEK PLK Scraper 45 degree

***18-304**
Plastic Sterilizing Tray
Single level, Large

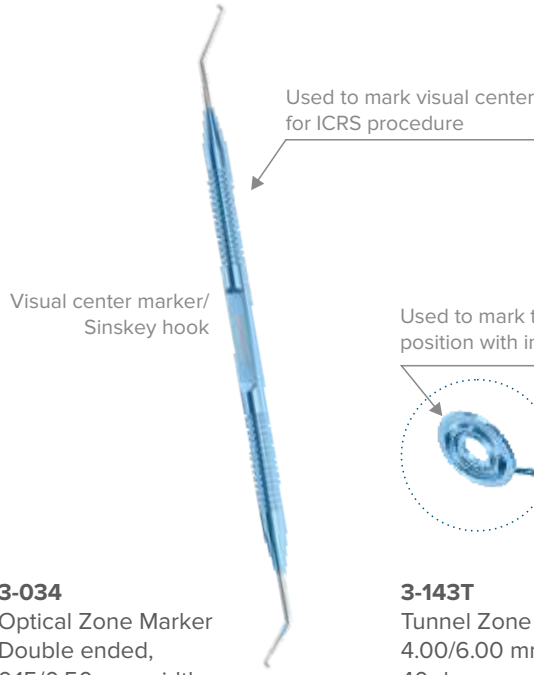
*not shown

INTRASTROMAL CORNEAL RING SEGMENTS (ICRS)

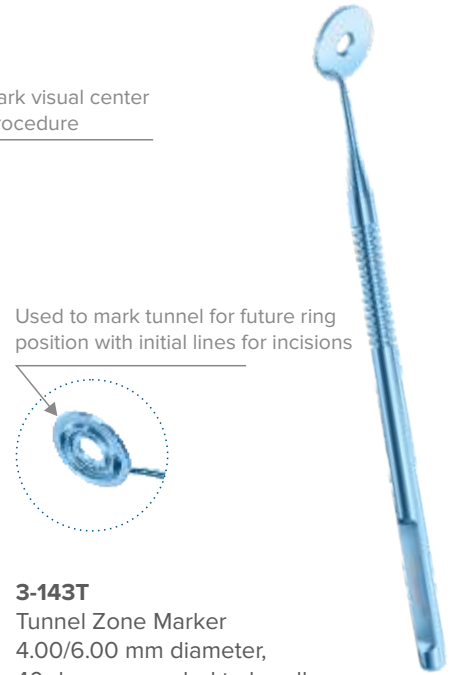
The procedure involves the embedding of the two rings in the stromal layer intended to flatten the cornea and change its refraction power.



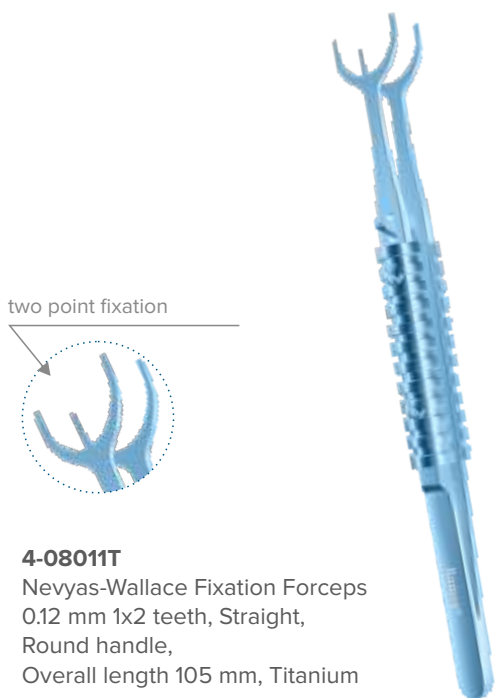
2-0331T
Grooved Mendez Degree
With 4 grooves,
13.00/16.50 mm diameters,
Overall length 122 mm,
Titanium



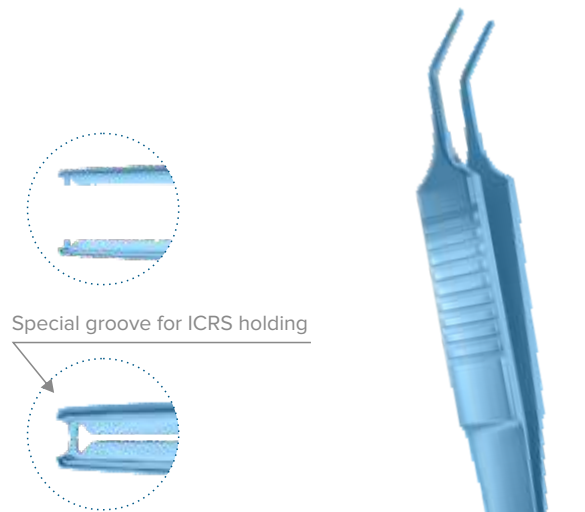
3-034
Optical Zone Marker
Double ended,
0.15/0.50 mm width



3-143T
Tunnel Zone Marker
4.00/6.00 mm diameter,
40 degrees angled to handle,
Titanium



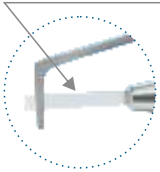
4-08011T
Nevyas-Wallace Fixation Forceps
0.12 mm 1x2 teeth, Straight,
Round handle,
Overall length 105 mm, Titanium



4-2144T
Forceps for ICSR Implant
With 1x1 teeth, 0.30 mm groove,
Overall length 85 mm, Flat handle, Titanium

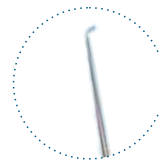


Performs a 1.00 mm radial incision at 70-80% of corneal thickness

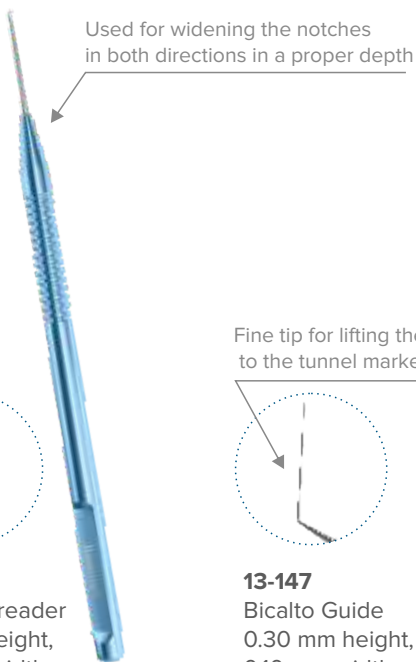


6-00/6-020
Astigmatic and Arcuate Keratotomy Diamond Knife
1.00 mm blade/micrometric titanium handle

Creates a small notch in intended direction of the tunnel



10-035
Elevator for ICSR Implantation
0.10 mm height, 0.20 mm width,
0.70 mm length, Straight

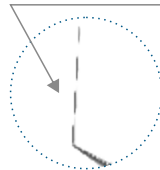


Used for widening the notches in both directions in a proper depth



13-146
Suarez Spreader
0.10 mm height,
0.60 mm width,
1.25 mm length,
Straight

Fine tip for lifting the cornea prior to the tunnel marker insertion



13-147
Bicalto Guide
0.30 mm height,
0.10 mm width,
5.00 mm length,
Angled

Used to create a tunnel for further ICRS implantation



Tunnel Maker
16-173S
4.40/5.60 mm diameter,
0.30 mm width,
Left,
Stainless steel

16-174S
4.40/5.60 mm diameter,
0.30 mm width,
Right,
Stainless steel

***18-304**
Sterilizing Tray With Silicone Finger Mat
Single level, Large, 254 x 152 x 19 mm

*not shown

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