SETS OF INSTRUMENTS FOR
CORNEAL PROCEDURES
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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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
  - With a center pointer for better centration without compromising the visibility

- **4-0541T** Castroviejo Colibri Corneal Forceps 0.12 mm 1x2 teeth
  - Angled teeth allow easy grasping and tissue manipulation
  - Can be used for grasping the tissue as well as for suturing

- **4-0814T** Pollack Corneal Transplantation Fixation Forceps
  - Two point fixation for safe and convenient suturing

- **4-0607S** Bishop-Harmon Suturing Forceps 0.30 mm 1x2 teeth
  - With a center pointer for better centration without compromising the visibility

- **Castroviejo Suturing Forceps 4-0600T 0.12 mm 1x2 teeth**
- **4-0601T 0.30 mm 1x2 teeth**
  - Two point fixation for safe and convenient suturing
  - Angled jaws allow easy grasping and tissue manipulation
  - Can be used for grasping the tissue as well as for suturing

- **4-090T** Kelman-McPherson Tying Forceps 4.00 mm platforms
  - With a tying platform which helps to control the amount of pressure applied by the surgeon

- **4-178S** McPherson Straight Tying Forceps 7.00 mm platforms
  - Straight jaws

- **Hemostatic forceps with serrated jaws**

- **8-031T** Standard jaws, Medium, for 4.0-7.0 sutures
  - Barraquer Needle Holder
  - Miniature pattern of blades for precise incisions of the corneal tissue

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

- **4-120S** Hartman Mosquito Forceps

- **11-020S** Right
  - Miniature pattern of blades for precise incisions of the corneal tissue

- **11-0201S** Left

- **13-110** Paton Double Ended Spatula and Spoon

- **14-022S** Barraquer Wire Speculum Adult size

- **14-040S** Westcott Curved Tenotomy Scissors

- **11-024S** Right
  - 11-0241S Left

- **11-040S** Westcott Stitch Scissors

- **15-301/303** Silicone Bulb With Adapter

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

- **15-051-25** Rycroft Anterior Chamber Cannula 25 Ga

- **16-0305** Corneal Trephine Blades 7.50 mm

- **16-0307** Corneal Trephine Blades 8.00 mm

- ***18-305** Plastic Sterilizing Tray Double level, Large
CASTROVIEJO CORNEAL SECTION SCISSORS

Uneven blades accommodate the curvature and thickness of the cornea

11-024S Right
11-0241S Left

11-040S Westcott Curved Tenotomy Scissors

11-044S Westcott Stitch Scissors

Uneven blades accommodate the curvature and thickness of the cornea

Angled teeth allow easy grasping and tissue manipulation

Can be used for grasping the tissue as well as for suturing

With a center pointer for better centration without compromising the visibility

With a tying platform which helps to control the amount of pressure applied by the surgeon

Hemostatic forceps with serrated jaws

Blunt tips

Sharp pointed tips

Barraquer Wire Speculum

Adult size

Used for manipulations with the cornea

Standard jaws, Medium, for 4.0-7.0 sutures

Extra fine jaws, Medium, for 8.0-11.0 sutures

*not shown

Paton Double Ended Spatula and Spoon

Lieberman Temporal Speculum

Towel Forceps

Silicone Bulb With Adapter

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

*not shown
Partial-thickness cornea transplant procedure allows to perform selective transplantation of the corneal stroma, leaving the native Descemet's membrane and endothelium in place.

**13-170**
Trisector for DALK Procedure

- Flat tip designed to finish dissection during "Big Bubble" technique
- Facilitates separation of stromal attachments from the Descemet's membrane

**13-171**
Spatula for DALK Procedure

- Central groove to guide the blade used for enlarging of the stromal opening

**13-172**
Dissector for DALK Procedure

- Blunt beveled tip helps to create a track in deep stroma for the further cannula inserting

**DALK Corneal Transplant Scissors**
11-038S Right
11-0381S Left
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.

Trisector for DALK Procedure
Facilitates separation of stromal attachments from the Descemet's membrane
Flat tip designed to finish dissection during “Big Bubble” technique

Spatula for DALK Procedure
Central groove to guide the blade used for enlarging of the stromal opening

Dissector for DALK Procedure
Blunt beveled tip helps to create a track in deep stroma for the further cannula inserting

DALK Corneal Transplant Scissors
11-038S Right
11-0381S Left
Blunt ledge for the protection of Descement's membrane

Cannula for DALK Procedure
15-450-27
Cannula for DALK Procedure
27 Ga
Allows to achieve ideal "Big Bubble"

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

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

Extra delicate tips for 9.0-11.0 sutures

Lieberman Temporal Speculum
14-040TL
Rounded blades

‘18-304
Plastic Sterilizing Tray
Single level, Large
‘not shown
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).

3-0219T
Hoffer Optical Zone Marker
9.00 mm

4-2019T
Corneal Donor Insertion Forceps

12-003T
Universal Instrument Handle

5-0322
Reversed Sinskey Hook

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

4-240
Guell DMEK Forceps

4-034*
Forceps for Corneal Endothelium Implantation

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

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

Ideal for scoring the recipient bed and placing the donor lamella

Reversed tips, angled 75°

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

Delicate serration pattern helps to avoid endothelial cell damage

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

*Tip only
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)

The unique design of the tool facilitates folding donor lamella in a taco shape. Exquisitely polished surface eliminates the risk of graft failure.

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

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

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

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

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

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

**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*