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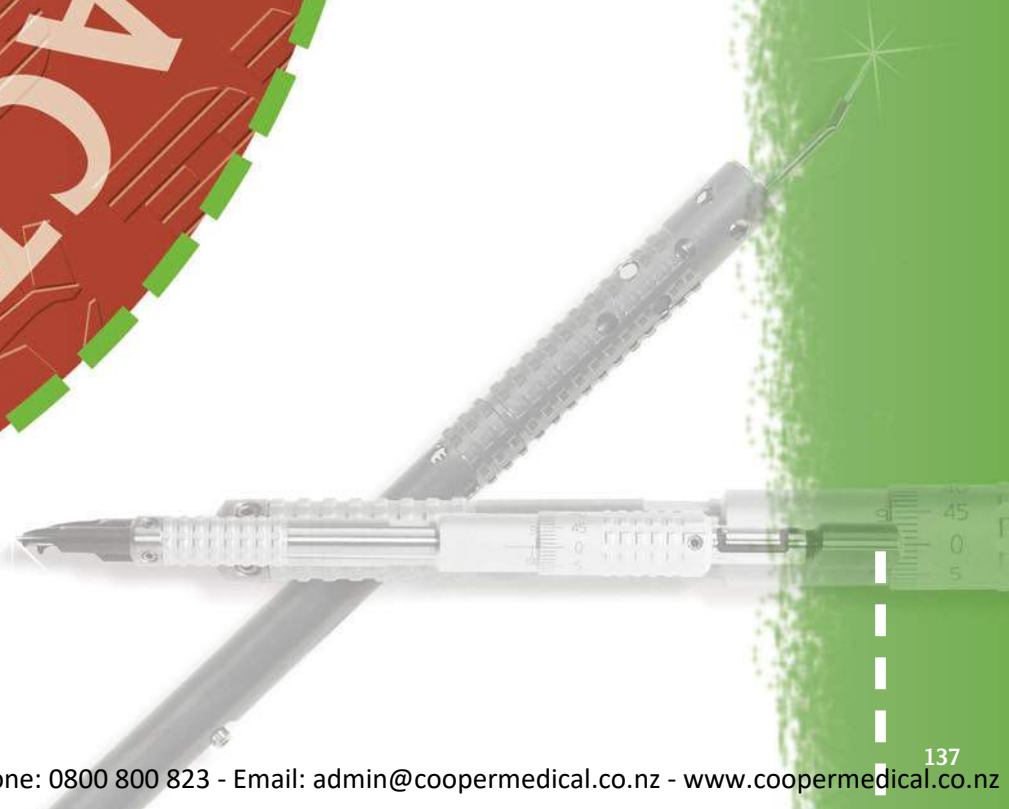
PMS





# KERATO REFRACTIVE

CORNEAL TREPHINE INSTRUMENTS .	138-139
CORNEAL TRANSPLANT SYSTEM . . . . .	140
CORNEAL TRANSPLANT INSTRUMENTS	141-147
LASIK & PRK INSTRUMENTS . . . . .	148-157
LASEK INSTRUMENTS . . . . .	158-159
AK INSTRUMENTS & DIAMOND KNIVES . .	160-161
LRI INSTRUMENTS . . . . .	162-165
TORIC IOL'S & CORNEAL RINGS . . . . .	166-167
ICL® INSTRUMENTS . . . . .	168-171
DSEK/DLEK INSTRUMENTS . . . . .	172-173
DSAEK INSTRUMENTS . . . . .	174-175





## CORNEAL TREPHINE INSTRUMENTS

PMS *EZCut*® Trephine Blades are machined from solid stainless steel rod. Handcrafted, sharp, uniform blade edges produce a symmetrical, smooth vertical cut of all corneal layers.



*EZCut*®  
Corneal Trephine Blades  
long 15 mm model,  
for "Free Hand" use

**E40-530L+ size**

available in 0.25 mm increments  
from 6.0 mm through 9.5 mm, and  
in large sizes 14, 15 & 16.0 mm dia.

Large size trephines for "Free Hand" use allow  
a surgeon, or eye bank, to remove the cornea  
along with its scleral rim from the donor eye



*EZFit*®  
Universal Trephine Handle  
adjustable spring arms to fit  
short trephine blades E40-530S+  
**E40-531**

**New**

**\*E40-530L+ and E40-530S+ series of trephine blade are  
NOW available in disposable, sterile version upon request!**



universal hub, 10 mm dia.

*EZCut*®  
Corneal Trephine Blades  
new model with universal hub  
for trephine handle E40-532  
**E40-530N+ size**

available in 0.25 mm increments  
from 6.0 mm through 9.5 mm dia.



handle is supplied without blade

*EZFit*®  
New Trephine Handle  
designed to fit trephine  
blades E40-530N+  
**E40-532**

A unique universal hub diameter with varying  
blade edge diameter provides an easier, more  
secure means of mounting the blade to the handle.

\* by special order only, 4-6 week delivery

# CORNEAL TREPHINE INSTRUMENTS

PMS



"Free Hand" corneal graft trephination

**EZCut®**  
Corneal Trephine Blades  
short 9.5 mm model, for  
handles E40-531 & E40-533

\*E40-530S+ size

available in 0.25 mm increments  
from 6.0 mm through 9.5 mm dia.,



trephine blades from  
6.0 mm to 9.5 mm are placed here and

**EZFit®**  
Trephine Blade Holder  
adjustable, fits with the series of  
short trephine blade E40-530S+  
E40-533



10.0 mm to 11.0 mm are placed here

By turning the back of the handle you can raise or  
lower the mm size that the handle accommodates.

**EZFit®**  
Corneal Trephine Punch  
with Teflon base plug, to fit  
E40-533 Trephine Blade Holder  
E40-540

for accurate donor button preparation

Replacement Base Plug  
(15 mm x 9 by 4 mm depth)  
for Corneal Punch E40-540  
E40-541



Corneal Transplant Block  
(22 mm dia. x 8 mm depth)  
for Corneal Punch E40-540  
E40-542

Base Plug Shield  
(27 mm dia. x 22 mm depth) fits over  
base plugs E40-542 and E40-543  
E40-544

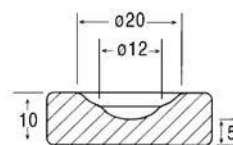
to cover cornea tissue



Large Teflon Cutting Block...  
for universal use  
E40-543

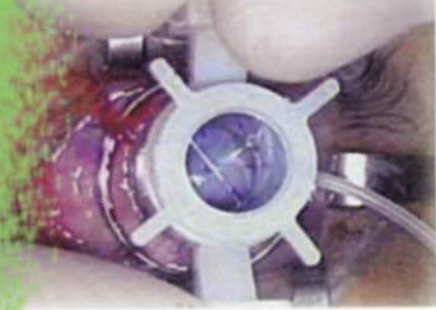


supplied without E40-533 handle



internal surface has multiple radii  
shape to closely approximate to  
the corneal scleral profile

KERATOREFRACTIVE



## CORNEAL TRANSPLANT SYSTEM

The Hessburg Barron Vacuum Trephine for cutting the recipient cornea is a single use, sterile instrument for lamellar or penetrating keratoplasty.



- A7028 6.0 mm
- A7030 6.5 mm
- A7032 7.0 mm
- A7034 7.5 mm
- A7035 7.75 mm
- A7036 8.0 mm
- A7038 8.5 mm
- A7040 9.0 mm

A precise calibrated rotating mechanism allows the surgeon to advance the blade depth 0.25 mm with each 360° rotation.

All Trephines and Punches include a marking pen and are supplied completely assembled and ready for use.

The Barron Donor Marking Punch is a single use, sterile system, designed to make an exact cut of the donor tissue for corneal transplant surgery.



- A7041 6.0 mm
- A7042 6.5 mm
- A7044 7.0 mm
- A7046 7.5 mm
- A7047 7.75 mm
- A7048 8.0 mm
- A7049 8.25 mm
- A7050 8.5 mm
- A7051 8.75 mm
- A7052 9.0 mm
- A7053 9.5 mm

Not for sale in the UK and USA.

## CORNEAL MARKERS

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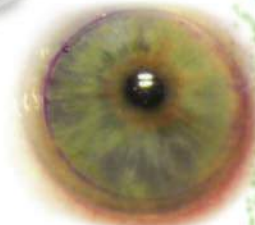


**Corneal Markers** - are being applied in various areas to define the capsulorhexis and arcuate positioning.

### Optic Zone Markers

low profile ring with cross hair, 10.5 cm available in 3 sizes: 7.0, 8.0 and 9.0 mm  
\*E10-522+size

cross hairs are ideal for accurately centering the marker over the patient's visual axis



marking of the recipient cornea

### Thornton

**Radial Incision Marker**  
semi-sharp marking blades, 4.5 mm center opening, 14.0 mm OD, 11.5 cm  
\*E10-530+ size

available with 4, 6, 8, 12 and 16 blades

radial incision markers with symmetrical patterns provide orientation lines on the recipient cornea



eight-blade marker in situ

### Anis

**Suture Placement Marker**  
eight radial marking lines, 8 mm dia. central opening, 11.0 cm  
E10-548

ideal to mark suture placement sites on the recipient cornea prior to penetrating keratoplasty



ink markings of suture placement sites

### Marking Pad

Gentian violet ink non-sterile (box of 10)  
630-01



Ink marking pads are used for coating cornea markers to produce a pattern on the cornea which is clearly visible for the duration of the surgery.

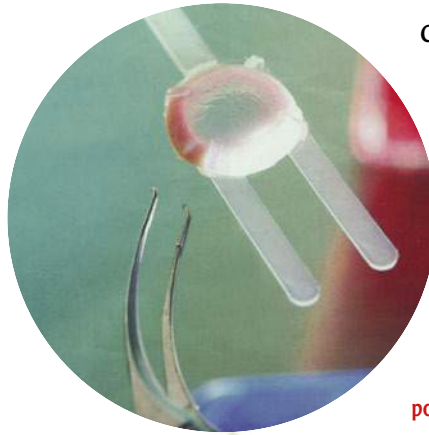
\*also available on titanium round handle

KERATOREFRACTIVE



slotted spoon shaped blade is ideal for corneal button transfer and to lift contact lens bandage from bottle and place on patient's eye following LASEK

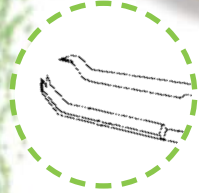
**CORNEAL TRANSPLANT FORCEPS**



Corneal Donor Tissue is of great value to the recipient. Thus, it should be controlled and selected by specialists, stored with utmost care and only handled using Precision Micro Surgical instruments of superior quality material. Using the double-armed forceps, you can stabilise the corneal graft in two locations simultaneously. This allows you to precisely place the needle between the two arms without tissue distortion minimising potential astigmatism.



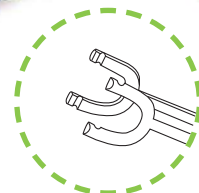
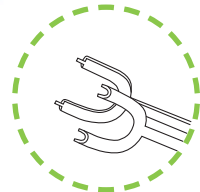
**Paton**  
Spatula & Spoon  
slotted spoon shaped blade and angled 7 x 2 mm wide spatula, 12.5 cm  
E40-682 stainless steel  
E40-682T titanium



**Harms**  
Corneal Suturing Forceps  
1 x 2 teeth, 0.12 mm/45°, tying platform, 7.5 cm  
E30-081T



**Polack**  
Double Corneal Suture Forceps  
U-shaped 1 mm spread, 2.75 mm long double tips with 1 x 2 teeth, 0.12 mm/45°, 7.5 cm  
E30-087T



Double Corneal Fixation Forceps  
U-shaped 2 mm spread, angled two 3 mm long arms  
E30-088T Remky-Polack  
2 x 1x2/0.12 mm teeth 45°  
E30-089T Hofman-Polack  
2 x 2/0.1 mm notched tips

## CORNEAL SCISSORS



### Corneal Section & Transplant Scissors

– with right and left curved blades and blunt tips are ideal for wound enlargement and completion of trephine cuts.



**Castroviejo**  
Corneal Section Scissors  
uneven length blades

E25-040 small, right

E25-041 small, left

outer blade is 0.5 mm longer than inner blade

E25-050 medium, right

E25-051 medium, left

E25-060 large, right

E25-061 large, left

ideal for wound enlargement



### Castroviejo

Universal Corneal Scissors  
rounded blunt tips, 10.0 cm

\*E25-011 small blades, light curve

\*E25-015 medium blades, light curve

\*E25-013 medium blades, medium curve

\*E25-019 large blades, strong curve

\*also available with sharp tips



### Katzin

Corneal Transplant Scissors  
small 5.0 mm blades,  
strong curved, 10.0 cm

E25-100 right

E25-101 left

ideal to complete corneal trephination



### CURVED CORNEAL SCISSORS SPECIFICATIONS

Blade sizes and average lengths in millimetres,  
measured from mid screw and aperture angle\*

small	8.0 - 9.0	4.5 - 5.5
medium	10.0 - 11.5	5.5 - 6.0
large	14.5 - 16.0	7.0 - 9.0
Xlarge	17.5+	10.0+

\* aperture angle = blade length from angle, therefore cutting edge



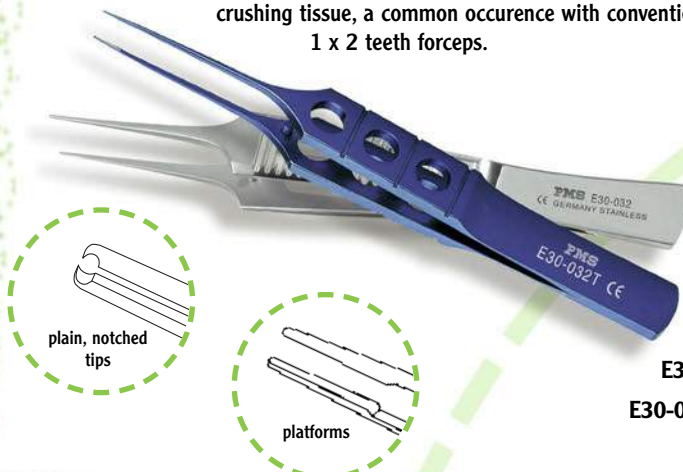
KERATORREFRACTIVE





**CORNEAL SUTURE FORCEPS**

**Hoskin Style Forceps** – have notched (1x1) atraumatic tips to grasp tissue, and a recessed area directly behind the tips for encapsulating rather than crushing tissue, a common occurrence with conventional 1 x 2 teeth forceps.



**Hoskin**  
Suture Tying Forceps  
8.5 cm, ultra fine jaws with  
E30-028T plain, notched 0.25 mm tips  
E30-032T 6 mm x 0.5 mm platform tips  
E30-036T platform, notched 0.25 mm tips

ideal for atraumatic tissue fixation, manipulation of limbal area and corneal lip, and fine suture tying



**Hoskin**  
Suture Tying Forceps  
8.5 cm, ultra fine jaws with  
E30-030T plain, notched 0.25 mm tips  
E30-038T platform, notched 0.25 mm tips  
E30-034T plain, pointed tips for suture removal



**Troutman-Barraquer**  
Corneal Suture Forceps  
ultra fine jaws, 6 mm platform,  
1 x 2/0.12 mm teeth, 8.5 cm  
E30-044T oblique 45°  
E30-046T straight 90°

these forceps are excellent for manipulation and fixation of delicate tissue, and fine suture tying



**Troutman-Barraquer**  
Corneal Suture Forceps  
ultra fine jaws, 4.5 mm platform,  
1 x 2/0.12 mm teeth, 8.5 cm  
E30-045T oblique 45°  
E30-047T straight 90°

for stainless steel models delete "T" from cat. no.

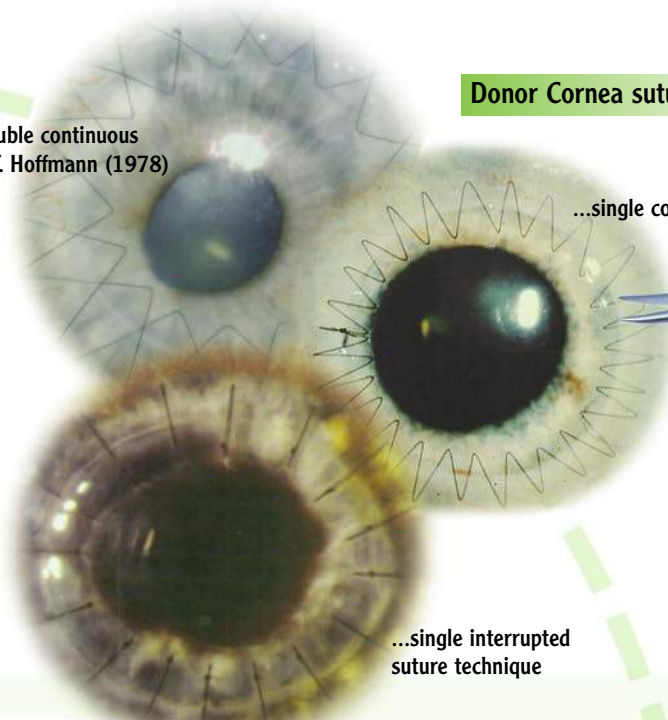
KERATOREFRACTIVE

# CORNEAL SUTURE FORCEPS



## Donor Cornea sutured in place using...

...double continuous  
acc. to F. Hoffmann (1978)



...single continuous

2:1

**Barraquer**  
Micro Needle Holder  
titanium made, TC textured  
conical 8 mm curved jaws with  
extra fine 0.3 mm tips, without lock  
E35-211T 10.0 cm  
E35-213T 12.5 cm

ideal for 11-0 to 8-0 sutures

...single interrupted  
suture technique

**St. Martin's**  
Micro Suture Forceps  
5 mm tying platforms, 1 x 2/45° teeth, 8.5 cm  
E30-411T 0.12 mm  
E30-413T 0.3 mm



excellent for corneoscleral fixation,  
grasping conjunctiva and fine suture tying

**Paufique**  
Universal Suture Forceps  
6 mm tying platforms, 1 x 2/45° teeth, 8.7 cm  
E30-415T 0.5 mm  
E30-418T 0.8 mm



All titanium forceps have  
tying platforms covered with  
**Tungsten Carbide** to ensure that  
the forceps have a very firm grip.

**Castroviejo**  
Suturing Forceps  
straight (wide handle)  
6 mm tying platforms,  
1 x 2/45° teeth, 11.0 cm  
E30-450T 0.12 mm  
E30-451T 0.3 mm  
E30-452T 0.5 mm  
**Colibri Style (wide handle)**  
E30-453T 0.12 mm



for stainless steel models delete "T" from cat. no.

KERATORREFRACTIVE



*Instrument sets  
are presented as  
guidelines only*



E10-114



E10-548



E30-093T



E35-251



E10-690T

**E42-120 CORNEAL TRANSPLANT SET**  
complete, consisting of the following:

- E30-902** Halstead Mosquito Forceps, page 16
- E30-934** Dieffenbach Bulldog Clamp, page 16
- E30-965** Baby Jones Towel Clamp, page 16
- E20-001** Bishop-Harmon Irrigator, page 20
- E20-030** Rycroft Irrigating Cannula, page 20
- E40-104** Liebermann Eye Speculum, page 55
- E40-618** Scleral Fixation Ring, page 19
- E10-548** Anis Host Bed Marker, page 141
- E10-522+** Optic Zone Marker, page 141
- E40-530N+** Trephine Blade, page 138
- E40-532** New Trephine Handle, page 138
- E10-114** Sapphire Universal Knife, page 65
- E25-100** Corneal Transplant Scissors, page 143
- E25-101** Corneal Transplant Scissors, page 143
- E25-313** Jaffe Micro Stitch Scissors, page 59
- E25-333** Westcott Tenotomy Scissors, page 59
- E30-081** Harms Corneal Forceps, page 23
- E30-093T** Maumenee Corneal Forceps, page 146
- E30-106** Bishop-Harmon Forceps, page 23
- E30-450** Castroviejo Suture Forceps, page 145
- E30-460** McPherson Tying Forceps, page 24
- E35-251** Barraquer Needle Holder, page 146
- E35-133** Castroviejo Needle Holder, page 25
- E40-682** Paton Spatula & Spoon, page 142
- E10-690T** Maloney Keratometer, page 160

## FOR CORNEAL TRANSPLANT SURGERY ADD



donor cornea being placed on the host bed



supplied without E40-533 handle



E40-540

### FOR CORNEAL TRANSPLANT SURGERY ADD

A7034 Hessburg-Barron Vacuum Trephine, page 140

A7048 Barron Donor Marking Punch, page 140

E40-530S+ Corneal Trephine Blade, page 139

E40-533 Trephine Blade Holder, page 139

E40-540 Corneal Trephine Punch, page 139

### FOR CORNEAL SECTION ADD

E25-070 Troutman Right Corneal Section Scissors, page 147

E25-071 Troutman Left Corneal Section Scissors, page 147



E25-070

### FOR CORNEAL SUTURING ADD

E30-411 St. Martin's Micro Suture Forceps, page 145

E30-418 Paufigue Universal Suture Forceps, page 145

E35-211 Barraquer Micro Needle Holder, page 145



E30-411

### MISCELLANEOUS PRODUCTS

37-405 PVA Eye Spears, page 155

52-100 Ink Marking Pen, page 151

EZWash® Sterilising Trays, see section

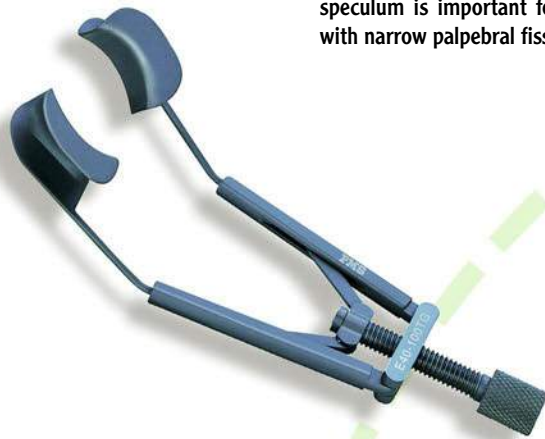
37-405

KERATORREFRACTIVE



**LASIK INSTRUMENTS**

**Adjustable Wire Speculae** - provide maximal exposure of the globe for LASIK. The ability to adjust and lock the speculum is important for maintaining control in patients with narrow palpebral fissures or those with blepharospasm.



**Genisi**  
LASIK Temporal Speculum  
solid 15 mm rounded blades, 8.0 cm  
**\*E40-100TG**

adjustable & strong, allows unobstructed micro-keratotome access. Solid blade to minimise interference and contamination from eyelashes



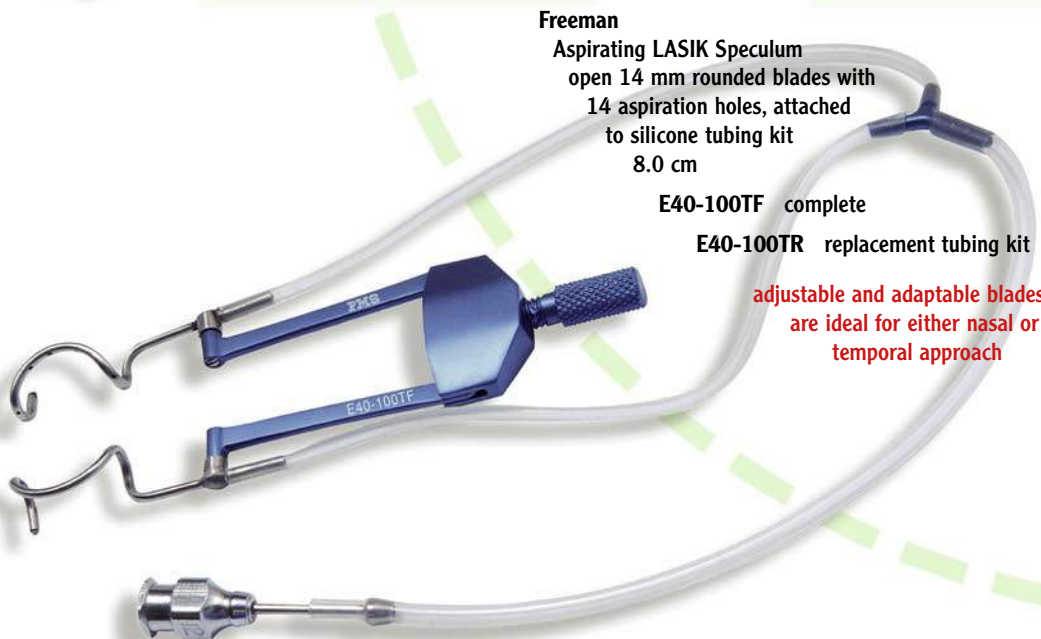
**Machat**  
LASIK Temporal Speculum  
open 14 mm V-shaped blades, 8.0 cm  
**\*E40-100TM**

for maximum exposure of the eye ball and to accommodate suction ring for efficient operation of the keratotome



**Slade**  
LASIK Temporal Speculum  
open 14 mm rounded blades, 8.0 cm  
**\*E40-100TL**

shanks of the speculum follow the facial angle on the temporal side allowing for easy access of the keratotome



**Freeman**  
Aspirating LASIK Speculum  
open 14 mm rounded blades with  
14 aspiration holes, attached  
to silicone tubing kit  
8.0 cm  
**E40-100TF** complete  
**E40-100TR** replacement tubing kit

adjustable and adaptable blades are ideal for either nasal or temporal approach

\*on request also available in stainless steel



Nasal Placement

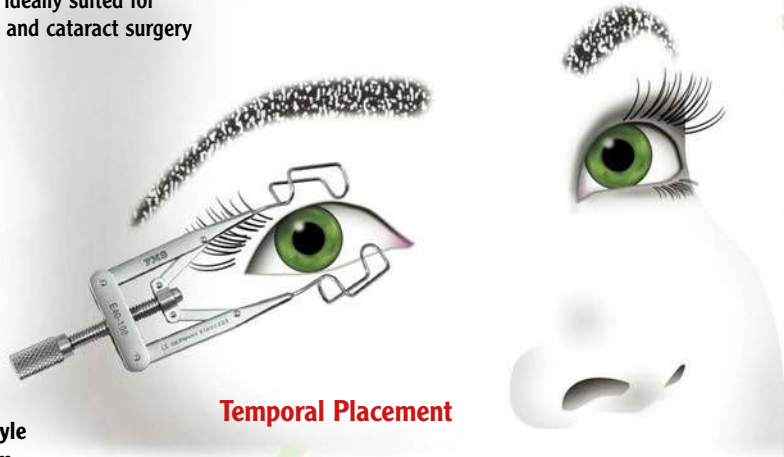
Retracting the lids - many surgeons prefer the adjustable Lieberman style speculum which retracts the lids sufficiently to provide unobstructed access for the microkeratome suction ring (see page 157).

**Kershner Style**  
Reversible LASIK Speculum  
solid 14 mm blades, 7.7 cm  
E40-105 stainless steel  
E40-105T titanium



**Reversible Eye Speculae -**

can be positioned nasally or temporally, by simply flipping the instrument; ideally suited for today's techniques of refractive and cataract surgery



Temporal Placement

**Kershner Style**  
Reversible LASIK Speculum  
fenestrated 14 mm blades, 7.7 cm  
E40-106 stainless steel



KERATORREFRACTIVE



**LASIK INSTRUMENTS**

**Fixation Rings** - are used to stabilise the globe and prevent inadvertent movement of the eye ball during laser ablation.

KERATOREFRACTIVE



**Blumenthal**  
PRK/LASIK Atraumatic Fixation Ring  
closed 12 mm ID swivel ring with  
concentrically grooved inside  
surface, 13.0 cm  
**E10-512B** stainless steel  
**E10-512TB** titanium round handle

positioned at the limbus to prevent eye movement during PRK/LASIK; also serves as a resting place for the corneal flap



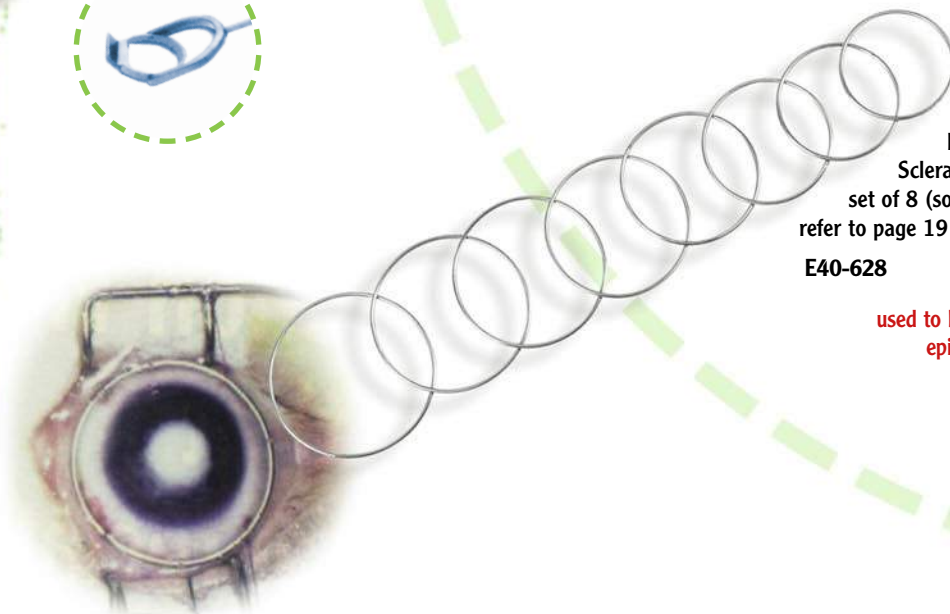
**Gimbel**  
LASIK Atraumatic Stabilisation Ring  
open 13 mm ID swivel ring  
with 9 mm cutout, 13.0 cm  
**E10-513G** stainless steel  
**E10-513TG** titanium

blunt teeth on both sides for atraumatic fixation; can be used for either the left or right eye



**Moretsky**  
LASIK Hinge Protector  
with swivel fixation ring  
11.0 mm ID, 13.0 cm  
**E10-511TM**

ideal to fixate the globe during laser ablation while covering the hinge and flap for complete protection



**Flieringa**  
Scleral Fixation Rings  
set of 8 (sold singly),  
refer to page 19  
**E40-628**

used to be fixed to the episclera with sutures



**LASIK Markers** - with asymmetrical marking lines are designed to place identifying patterns on the cornea for accurate realignment of the flap.

**Mendez LASIK Marker**  
modified cross pattern with two opposite radial marking lines and two asymmetrically placed parallel marking lines, 11.0 cm  
**E10-673**



central rings with cross hair are used for accurately centering the marker over the patient's visual axis

**Chayet LASIK Marker**  
8.5 mm dia. marking ring with two asymmetrically spaced smaller rings, and central cross hair, 11.0 cm  
**E10-675**



circular opening maximises visibility during marking

**Lu LASIK Marker**  
10.5 mm dia. external ring with radial marking lines, 3.0 mm central ring with cross hair, 11.0 cm  
**E10-677**



**Ink Marking Pen**  
disposable, sterile  
**52-100** broad tip (box of 10)  
**T5222AA** fine tip (pack of 25)



Gentian violet marking pens are used for coating any refractive/corneal marking instruments





**LASIK INSTRUMENTS**

**Flap Spatulae** - have bevelled front edge for easy entry under the flap and smoothly rounded surfaces to elevate and reposit the flap.



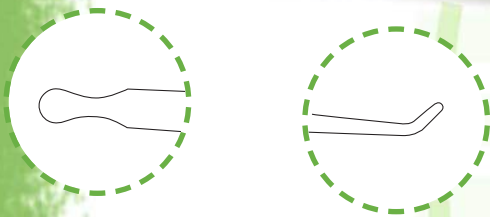
**Slade**  
**Flap Spatula/Elevator**  
 vaulted 12 x 2 mm wide blade,  
 smooth tip, 11.5 cm  
**E15-371T**

works well to find any "mark" or begin entry into the flap margin for enhancements



**Katzen**  
**LASIK Retreatment Flap Separator**  
 smooth bullet tip and 45° angled  
 delicate hook, 11.5 cm  
**E15-372T titanium**  
**E15-372 stainless steel**

bullet tip to cut a clean edge through the epithelium before lifting the flap and delicate hook to locate and manipulate the flap edge



**Buratto**  
**Flap Retractor & Protector**  
 angled 8 x 5mm blade with narrow lip, 11.5 cm  
**E15-381T**

used to retract and protect nasally hinged flap (left & right eye)

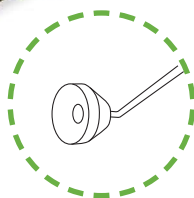


**Caro**  
**Flap Smoother**  
 angled, hemispherical tip, 11.5 cm  
**E15-383T**

designed to lightly press on the corneal flap conforming it to the newly shaped stromal bed



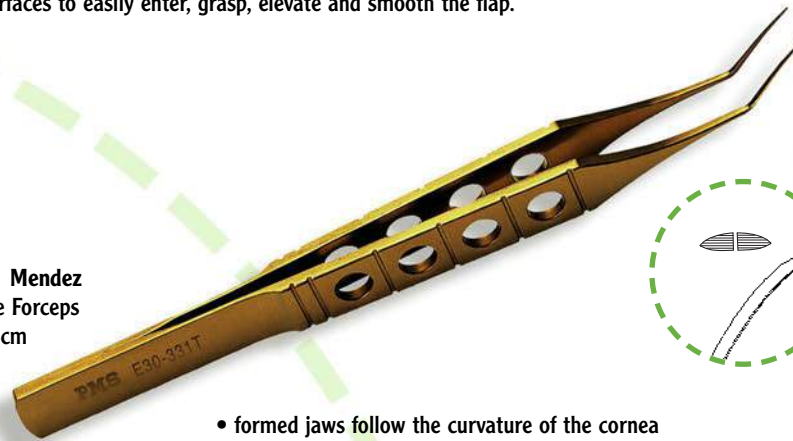
**Caro-Avalos**  
**Flap Smoother/Conformer**  
 angled, funnel shaped tip  
 11.5 cm  
**E15-385T**





**Flap Forceps** - have specially designed jaws with smooth inner surfaces to easily enter, grasp, elevate and smooth the flap.

**Mendez**  
LASIK Multipurpose Forceps  
11.5 cm  
E30-331T



this instrument combines the features of a spatula, dissector and forceps

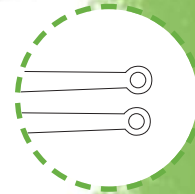
- formed jaws follow the curvature of the cornea
- spatulated tips and beveled edges to enter, lift and smooth the flap
- smooth inside jaw surfaces for atraumatically grasping the flap

**Perone**  
LASIK Flap Forceps  
curved, extra delicate  
2 mm ring tips,  
11.0 cm



E30-332T

ideal for atraumatically grasping and securely lifting the flap



**Manche**  
LASIK Flap Forceps  
curved jaws, oval tips, smooth  
inside surfaces, 11.0 cm



E30-333T

used to manipulate the flap with minimal risk of tearing and trauma

**Hersh**  
LASIK Retreatment Forceps  
curved shafts, U-shaped 3 mm  
spread, double notched tips,  
11.0 cm  
E30-335T



used for controlled peeling of the flap from the stroma



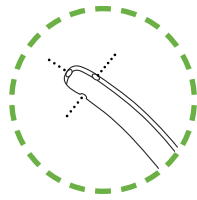


**LASIK INSTRUMENTS**

**Irrigation Cannulae** - are used for irrigating the eye before and after repositioning the flap.



1ml syringe provides the optimum hydraulics and feel; a larger syringe can produce excessive flow with only light pressure of the plunger



**Buratto LASIK Cannula**  
25GA/0.5 x 25 mm tube, formed 12 mm flattened tip with 1 front and 2 side ports

\*606-25 disposable

E20-525 reusable

spatulated tip allows easy entry under the flap, and three ports provide equal flow in 3 directions

All Glass Syringe (LL cone)

E20-801 1 ml

E20-802 2 ml



**Slade**

**LASIK Cannula**  
26GA/0.45 x 25 mm tube, formed 9 mm thin spatulated tip with recessed end port

\*613-26 disposable

E20-526 reusable

to easily locate and lift the flap edge, and effectively irrigate the lamellar interface



**Banaji**

**LASIK Cannula**  
25GA/0.5 mm x 25 mm tube, formed 12 mm bullet-shaped tip with 6 ports

\*604-25 disposable

E20-529 reusable

ideal for easy insertion under the flap, 6 ports provide multi-directional irrigation



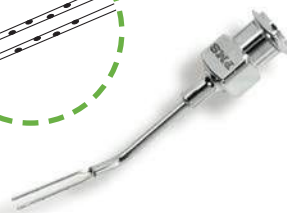
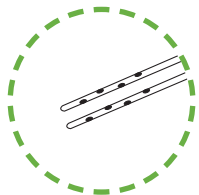
**Vidaurri**

**LASIK Cannula**  
25GA/0.5 mm double arm cannula, horizontal with 8 irrigating ports

\*600-06 disposable

E20-522 reusable

to simultaneously irrigate both sides of the flap and stromal bed, for controlled flap manipulation



\* disposable cannulae, sterile 10 per box

## DISPOSABLE LASIK PRODUCTS

PMO



**Preparing the cornea** - cleaning and preparing the cornea is usually done with a wet sponge spear. The Netcell® Classic Range PVA Sponge guarantees a LINT FREE environment during LASIK surgical procedures.

**PVA Eye Spears**  
triangular, pointed tip,  
sterile (18 packs of 10)

**37-405**

for absorbing fluid in and around the orbital  
area during LASIK and refractive procedures



**PVA LASIK Spears**  
pre-expanded, broad tip,  
sterile (20 packs of 2)

**37-800**

to remove excess fluid and aligning  
and smoothing the corneal flap



**PVA LASIK Drain Rings**  
sterile (box of 20)

**37-830** 11.5 mm opening for nasal hinge

**37-831** 10.5 mm opening for superior hinge

used to control stromal bed  
hydration during laser ablation



**PVA LASIK Shields**  
sterile (box of 20)

**37-820** 9 mm dia. (7 mm edge)

**37-821** 8 mm dia. (6 mm edge)

**37-822** 4 mm dia. (8 mm edge)

used to protect and moisten the nasal  
and superior hinge of the corneal flap



**Eye Kit**  
consisting of Instrument Wipe, Wick  
and Corneal Light Shield (1 each)  
sterile (20 packs of 1)

**37-450**

ideal for wiping delicate instrument  
tips during surgery, and to  
protect the cornea from  
harmful light rays



photographs do not correspond to the actual size

KERATOREFRACTIVE



EZWash® Sterilising Tray  
without silicone mat and  
instruments  
E45-113



E42-123

**BASIC PRK INSTRUMENT SET**  
complete, consisting of 1 each:

E40-100L LASIK Speculum, page 148

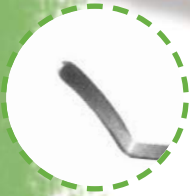
E10-512B PRK Fixation Ring, page 150

E10-522+7.0 Corneal Marker, page 160

E15-353 Fukasaku Hockey Knife, page 157

E15-365T Lindstrom Spatula, page 156

E30-460 McPherson Tying Forceps, page 24



**Lindstrom**  
PRK/LASIK Spatula  
double ended, 14.0 cm  
E15-365T

semi-sharp golf club end used for epithelial debridement  
during PRK and fine spatula to lift flap during LASIK

**Simpel**  
LASIK Flap Elevator & Repositor  
double ended, 14.5 cm

E15-366T



V-end with sharp inner  
edges to cut a clean edge through the epithelium,  
smooth spatula end is used to lift and reposition the flap back

**Intralasik Flap Lifter & Manipulator**  
double ended, 12.5 by 1.3 x 0.15 mm tip,  
angled 35°, 1.0 x 0.15 mm tip, 10.5 cm

E15-373T

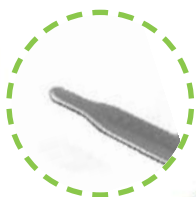
delicate pick and curved spatula  
to open and manipulate the flap



**Intralasik Flap Spatula/Elevator**  
vaulted, semi-sharp 1 x 12 mm  
spatula with a jag on the tip,  
12.0 cm

E15-375T

to detach the flap edge  
and to open the flap

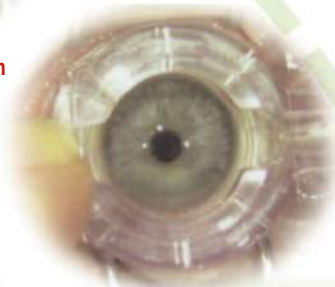




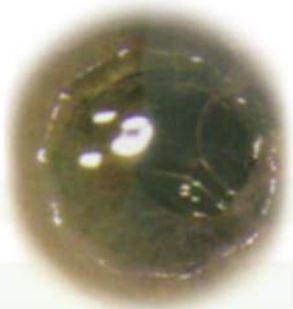
*Incisional and ablative corneal procedures*



**LASEK using alcohol solution**



**epi-LASIK  
with mechanical microkeratome**



**fs-LASIK with femtosecond laser**

Surface treatments: Tissue ablation is performed directly under the epithelium in surface ablation techniques. The epithelium is completely removed mechanically, chemically or with a laser (Photorefractive keratectomy - PRK), or an epithelial flap is produced using an alcohol solution (laser epithelial keratomileusis - LASEK), or by using a microkeratome (epithelial laser in situ keratomileusis - epi-LASIK). After treatment the flap is re-positioned to achieve faster wound recovery in comparison to PRK. However, most surgeons tend to remove the flap after treatment. In this case the only difference to PRK is the way of epithelial removal.

**Fukasaku  
Epithelium Removal Knife  
"Hockey" style, 12.5 cm  
E15-353 all stainless steel  
E15-353T on titanium handle**

**3 mm sharp front edge used to strip the epithelial layer; and  
semi-sharp 6 mm bottom edge to remove residual epithelium**



**Fukasaku  
LASIK Flap Spatula  
vaulted, extra thin, semi-sharp blade, 12.0 cm  
E15-363**

**used to locate and elevate the flap edge,  
and to effectively dissect underneath the flap**



**E42-124 PRIMARY LASIK SET  
complete, consisting of the following:**

- E40-100** Liebermann Speculum, page 55
- E10-513G** Gimbel Stabilising Ring, page 150
- E10-673** Mendez Corneal Marker, page 151
- E15-363** Fukasaku Flap Spatula, page 157
- E15-372** Katzen Flap "Unzipper", page 152
- E15-381T** Burratto Flap Protector, page 152
- E20-522** Vidaurri LASIK Cannula, page 154
- E30-330T** Mendez LASIK Forceps, page 153

**EZWash® Sterilising Tray  
without instruments  
E45-113**



**KERATOREFRACTIVE**



**LASEK INSTRUMENTS FOR CAMELLIN TECHNIQUE**

**KERATOREFRACTIVE**

**Simple Technique** - starts with the creation of an epithelial flap, using a 20% Alcohol/BSS solution for 10-30 seconds, which is then repositioned after laser ablation.



Epithelial trephination...

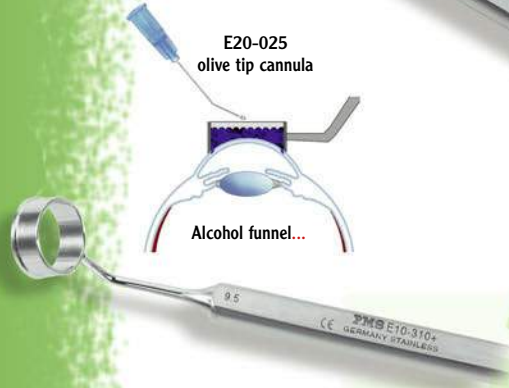
LASEK Trephine  
with central cross hair,  
semi-sharp edge, 10.5 cm

E15-300+ 8.0 mm

E15-300+ 9.0 mm

E15-300+ 9.5 mm

...is performed using special trephine with a 80 µm depth calibrated blade



E20-025  
olive tip cannula

Alcohol funnel...

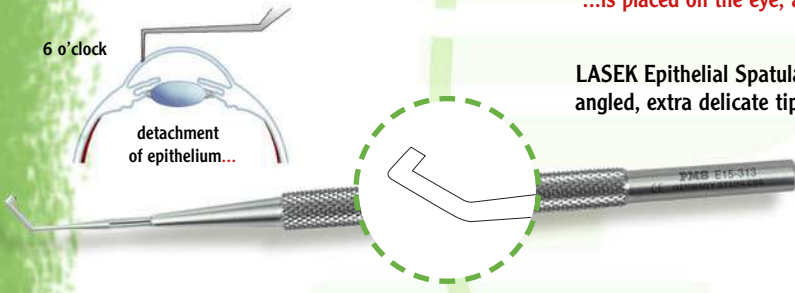
LASEK Alcohol Funnel  
dual concentric rings, blunt, 11.0 cm

E15-310+ 8.5 mm for 8 mm flap

E15-310+ 9.5 mm for 9 mm flap

E15-310+ 10.0 mm for 9.5 mm flap

...is placed on the eye; a 20 % Alcohol/BSS solution is then instilled



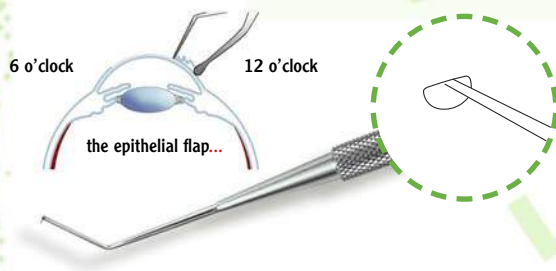
6 o'clock

detachment  
of epithelium...

LASEK Epithelial Spatula  
angled, extra delicate tip, 10.5 cm

E15-313

...is performed in the pre-cut margin of the epithelium



6 o'clock

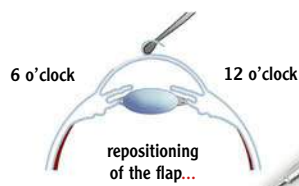
12 o'clock

the epithelial flap...

LASEK Epithelial Micro Hoe  
semi-circular 2 mm wide tip, 10.5 cm

E15-315

...is gently detached and folded over to the 12 o'clock position



6 o'clock

12 o'clock

repositioning  
of the flap...

LASEK Epithelial  
Flap Repositor  
curved, blunt tip  
with smooth edges,  
10.5 cm

E15-317

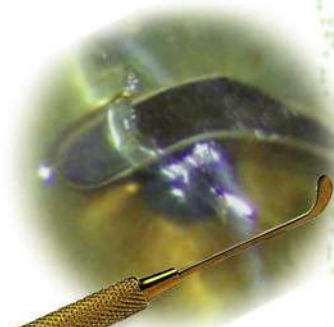
...is done after Laser surgery to protect the ablated surface. A soft contact lens is applied for 3 to 4 days to keep the flap in place.

## LASEK INSTRUMENTS FOR VINCIGUERRA TECHNIQUE

PMS



**“Curtain Technique”** - the initial incision is made off-center of the pupil. After an Alcohol/BSS solution is applied the flap is dissected underneath the epithelium and peeled from the center outward to the limbus.



**Vinciguerra Style  
PRK/LASIK Spatula Knife**  
curved 2.5 x 5 mm long blade,  
semi-sharp anterior edge, 11.5 cm  
**E15-355T**

used to make initial off-center  
incision into the epithelium  
and to dissect the flap outwards to the limbus



**LASEK Epithelial Dissector**  
vaulted, 1.7 x 6 mm blade,  
semi-sharp tip, 10.5 cm  
**E15-316**

to undermine and peel the flap from the center  
outward to the limbus for the “curtain technique”



**LASEK Epithelial Peeler**  
angled, 1 x 5 mm long blade,  
semi-sharp edges, 10.5 cm  
**E15-318**

to efficiently dissect and fold back the flap



**E42-125 CAMELLIN STYLE LASEK SET**  
complete, consisting of the following:

- E40-100L** Slade LASIK Speculum
- E15-300+ 9.0** LASEK Trephine
- E15-310+ 9.5** LASEK Funnel
- E15-315** LASEK Micro Hoe
- E15-317** LASEK Repositor
- E20-025** Alcohol Cannula
- E45-162** Instrument Tray



**Silicone Instrument Tray**  
(160x85x20 mm)  
**E45-162**

for secure positioning of 10 instruments

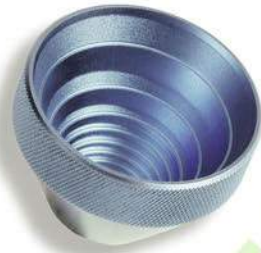
KERATOREFRACTIVE





**ASTIGMATIC KERATOTOMY INSTRUMENTS**

**KERATOREFRACTIVE**



**Maloney**  
Astigmatic Keratometer  
**E10-690T**

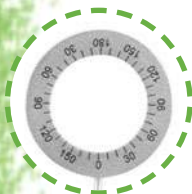
projects multiple rings on cornea for qualitative evaluation of astigmatism



**Hoffer**  
Optical Zone Marker  
low profile ring with cross hair,  
10.5 cm, available in 3 sizes:  
7.0, 8.0 and 9.0 mm dia.

\*E10-522+ size

ideal to define arcuate positioning



**Mendez**  
Degree Gauge  
measures 0-180° every 10 degrees,  
12.0 mm dia. inner ring, 11.0 cm

\*E10-562

used with the Bores axis marker for easy alignment



A simple method of marking the steep meridian is with the Bores axis marker aligned in the Mendez degree gauge.

**Bores**  
Astigmatism Axis Marker  
two blades, 11.0 mm OD,  
9.5 cm

\*E10-572

fits inside the Mendez Degree Gauge to precisely mark the steepest meridian



\*also available on titanium round handle, add "T" to cat. no.

## AK MICROMETER DIAMOND KNIVES

PMS

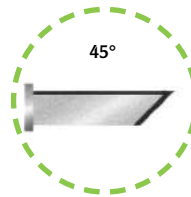


**Incisional Corneal Procedures** - are used to treat regular astigmatisms by flattening the corneal curvature in one meridian, utilising either transverse (straight) or arcuate (curved) incisions across the steep meridian.

**Back & Front Cutting Knife**  
vertical and 45° cutting edges

\*E10-260

suitable for all types of  
keratorefractive incision

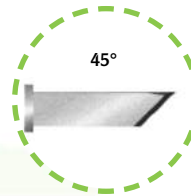


Gem Quality Diamond Knives. A gem quality diamond is considered to be free of inclusions visible at 10x magnification.

**"Duo-Blade" Knife**  
45° cutting edge and 250 microns vertical cutting edge

E10-262

for both Russian and American technique



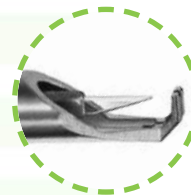
Micrometer mechanism is easy to adjust in 10 micron increments from 0 to 3.0 mm.



**Thornton Arcuate Knife**  
"triple-blade" with vertical and 15° cutting edges

E10-263

perfect for arcuate incisions, because it easily follows the curvature of the arc



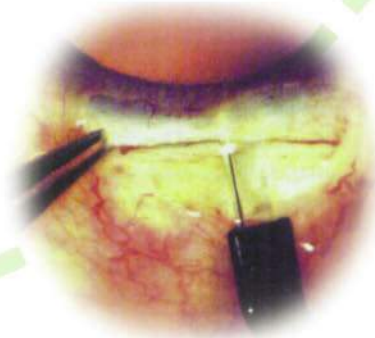
Footplates of PMS micrometer diamond knives are highly polished and coated with titanium nitride for smooth gliding on the corneal surface.

### CURRENT INCISIONAL AK TECHNIQUES

performed with arcuate (curved) cuts

Nomograms developed by different surgeons precisely stipulate the length and location of such incisions.

performed with transverse (straight) cuts



Ultra thin (100 microns) diamond blades. Their extremely thin profile makes them ideal for transverse (straight) and arcuate (curved) incisions.

\*also available with 0.17 mm thick standard diamond blades

KERATOREFRACTIVE



**LRI INSTRUMENTS**

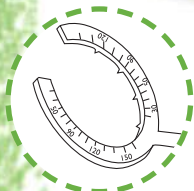
**LRI Degree Gauge** - are designed to determine Limbal Relaxing Incision axis. Multiple fixation teeth are ideal to stabilise the globe during marking.

KERATOREFRACTIVE



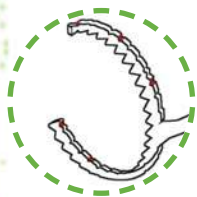
**Fine-Thornton**  
 Fixation Ring/Incision Guide  
 multiple blunt teeth, 13.0 cm  
**E10-513F** 13.0 mm ID  
**E10-516F** 16.0 mm ID

features 15° markings on the anterior surface as a guide for placement of limbal relaxing incisions



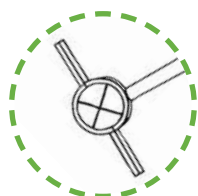
**Lu-Mendez**  
 LRI Guide/Fixation Ring  
 measures from 0-150° on both sides, 13.0 mm ID, 11.5 cm  
**E10-561**

for globe fixation and axial alignment of corneal incisions



**Nichamin**  
 LRI Fixation/Degree Ring  
 28 atraumatic teeth, visible 10° scale and 30° hash marks at top of the ring, 14.0 mm ID, 11.5 cm  
**E10-563**

when used with the Bores Two-Ray Meridian Marker the system delivers simplicity and acuity with precision engineering performance

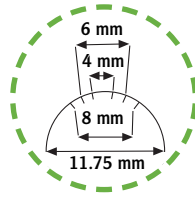


**Bores**  
 Two-Ray Meridian Marker  
 low-profile 3 mm ring with cross hair, 12 mm OD, 11.5 cm  
**E10-573**

fits with degree gauge of max. 13.0 mm ID



**LRI Markers** - with patient laying down - are used with the degree gauge to mark the limbus in a symmetrical pattern for correcting astigmatism.



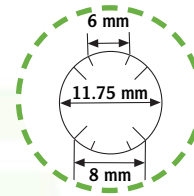
**LRI Marker**  
single marking blade for  
4, 6 and 8 mm chord length  
**E10-573T**

markers are designed to be used with a degree gauge



**LRI Marker**  
double marking blade for  
6 and 8 mm chord length  
**E10-574T**

chord lengths of 6.0 mm correct approx. 1.0 D of astigmatism  
chord lengths of 8.0 mm correct approx. 2.0 D of astigmatism



**LRI Marker/Degree Gauge**  
rotatable head with thin bevelled marking lines, 13.0 cm  
**E10-576T** for 6 & 8 mm chord length

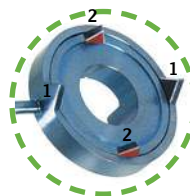
**E10-578T** for 40-60-80 degrees  
marks incision size by degrees instead of chord length; corrects up to 2.5 D of astigmatism

**Toric IOL/LRI Marker**  
low-profile degree gauge,  
with adjustable inner points, 13.0 cm

**E10-579T**

allows precise marking of the steeper meridian prior to IOL implantation

1 Fixed points allow to verify the 90° position as previously marked  
2 Inner points are adjustable to align the steepest axis



**KERATORREFRACTIVE**



**LRI INSTRUMENTS**

**LRI Markers** - to make LRI at slit lamp - are designed to mark the astigmatic axis on the cornea for a correct alignment of the lens.



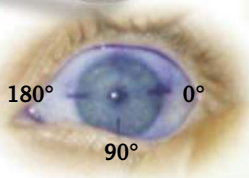
**LRI Slit Lamp Gravity Marker**  
lightweight, all titanium body with  
2-point pendulum marker, 13.5 cm  
**E10-582T**

used to mark the 0° and 180° meridian  
from the temporal position



**LRI/Toric Slit Lamp Marker**  
lightweight, titanium body with stainless steel  
3-point pendulum marker, 13.8 cm  
**E10-583T**

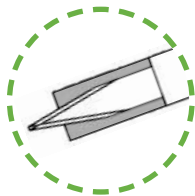
used to mark the 0°, 90° and 180° positions - as pictured at left



**Donnenfeld**  
Slit Lamp Preset Diamond Knife  
tri-facet 20° blade, 0.25 mm flat tip,  
fixed depth setting of 0.6 mm,  
10.5 cm

**E10-380**

short handle permits  
arcuate incisions at slit lamp,  
narrow, single footplate prevents  
corneal epithelial detachments



**E42-127** LIMBAL RELAXING INCISION SET  
complete, consisting of the following:

- E10-690T** Astigmatic Keratometer, page 160
- E10-561** Fixation Ring/Degree Gauge, page 162
- E10-572** Astigmatic Axis Marker, page 160
- E10-383** Three-Step LRI Knife, page 165
- 52-100** Marking Pen, page 151

## LRI DIAMOND KNIVES

PMS



**LRI Diamond Knives** - feature a titanium handle and gem quality 1.0 mm wide diamond blade with tri-facet, flat 20° tip for controlled Limbal Relaxing Incisions.

LRI Preset Diamond Knives  
tri-facet 20° blade, flat 0.4 mm tip,  
one fixed depth setting of:

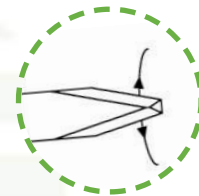
E10-384 0.5 mm

E10-385 0.55 mm

E10-386 0.6 mm



- ideal for paracentesis and astigmatism incisions
- side cutting edges for bi-directional cutting
- flat tip for controlled entry during incision
- used with open fixation ring/degree gauge



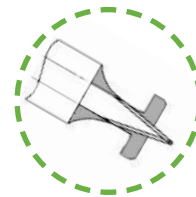
LRI Three-Step Diamond Knife  
tri-facet 20° blade, flat 0.4 mm tip,  
preset depths of: 0.5, 0.55 and 0.6 mm

E10-383

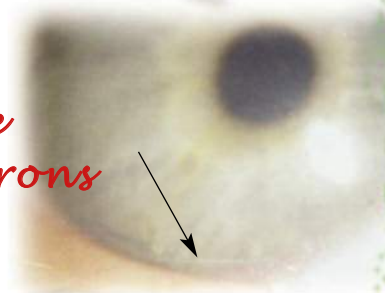
Nichamin  
LRI 7-Step Diamond Knife  
tri-facet 15° blade, narrow/flat  
0.2 mm tip, preset depth settings of:  
0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75 mm

E10-387

excellent blade visualisation  
while performing the incision

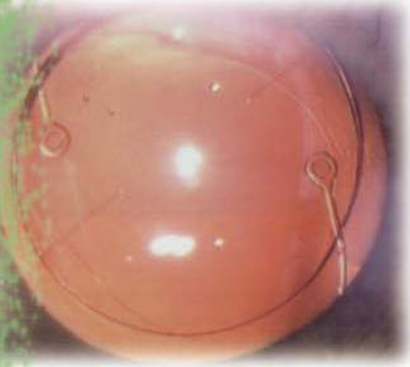


*the preferred depth of the  
LRI procedure is 600 microns*



limbal relaxing incision (arrow)  
performed with a diamond knife

KERATORREFRACTIVE



Hydrophobic, 3-Piece Toric IOL MS 6116 TU implanted

for more information visit  
[www.dr-schmidt-iol.de](http://www.dr-schmidt-iol.de)

**MATERIAL**

- Hydrophobic Silicone Elastomer
- With UV-Absorber and
- High Molecular PMMA haptics

**FEATURES**

- Three-piece posterior chamber lens
- 360° sharp posterior optic edge
- **Blue light protection**
- Optic size 6.0 mm
- Haptic angulation 0°

**LENS STYLES**

- Z-shaped haptics for implantation into capsular bag
- extended C-loop for implantation into ciliary sulcus
- undulated extended C-loop for piggyback implantation into the ciliary sulcus

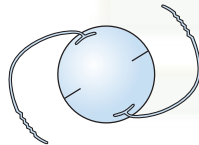
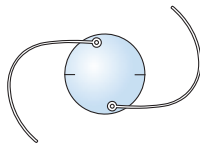
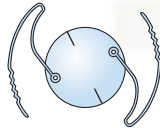
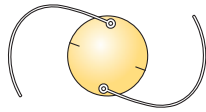
**DIOPTER RANGE**

**SPHERE**

- +15.0 to +25.0 D (0.5 D steps)
- - 3.0 to +14.0 D (1.0 D steps)
- +26.0 to +31.0 D (1.0 D steps)

**CYLINDER**

- 1.0 to 3.0 D (0.5 D steps)
- 4.0 to 12 D (1.0 D steps)
- (special production up to 30 D cylinder)



Discover Astigmatism  
 and its Correction  
 through our  
**Toric Demonstrator !**



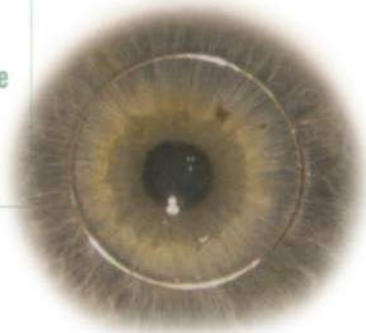
The Toric Demonstrator #100010 simulates why a toric lens is useful for patients having corneal astigmatism.

\* Manufacturer:  
 Dr. Schmidt  
 Intraocularlinsen GmbH  
 St. Augustin, Germany



“In the eyes where the ring was implanted, the immune rejection rate was significantly lower than in the control group.”

— Jörg H. Krumeich, MD

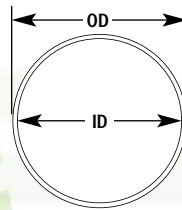


Krumeich ring in place

**Krumeich**  
Intrastromal Corneal Rings  
available in three sizes:  
**CR 7.0** OD 7.3 mm, ID 7.00 mm  
**CR 7.5** OD 7.8 mm, ID 7.50 mm  
**CR 8.0** OD 8.3 mm, ID 8.00 mm

**For more information:**

Jörg H. Krumeich, MD, can be reached at  
Clinic Krumeich, Propst-Hellmich Promenade 28-  
30, Bochum D-44866, Germany; +49-2327-82002;  
fax: +49-2327-88171; e-mail: jk@krumeich.de.

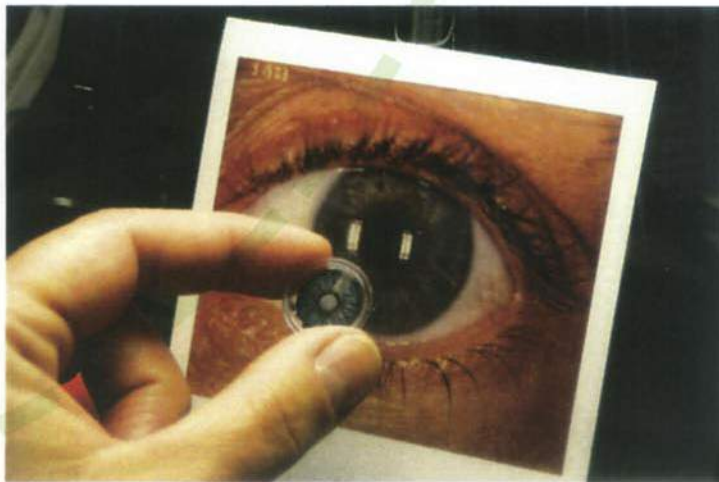


**MATERIAL** Ceralloy-Ti  
made from an alloy of  
• 69% cobalt  
• 24% steel  
• 4,5% molybdenum  
• 2% titanium


*Artificial Iris*



- Designed on the Basis of an Individual Photography of the Patient's Eye
- Structure and Topography resembling the Natural Iris
- Available on Customer's Request, Special Production



• Models: Artificial Iris with or without Fiber Layer

\*  Manufacturer:  
Dr. Schmidt  
Intraocularlinsen GmbH  
St. Augustin, Germany





**IMPLANTABLE CONTACT LENS INSTRUMENTS**

**KERATOREFRACTIVE**



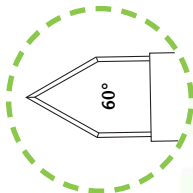
**Kraff-Lieberman**  
**Temporal Eye Speculum**  
 solid 15 mm blades, 8.0 cm  
**E40-104T** titanium  
**E40-104** stainless steel

facilitates unobstructed access  
 for temporal approach, adjusts  
 easily to comfort patient's eye

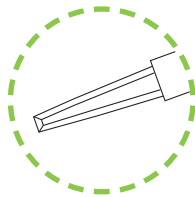


**Fine-Thornton**  
**Globe Fixation Ring**  
 3/4 open swivel ring with  
 nine blunt teeth, 13.0 cm

- E10-513T** 13 mm ID for clear cornea incision
- E10-516T** 16 mm ID for scleral tunnel incision



**EZCut®**  
**Clear Cornea Sapphire Knife**  
 angled, keratome shaped 60° blade,  
 3.2 mm width (4 cutting edges), 13.0 cm  
**\*E10-144**



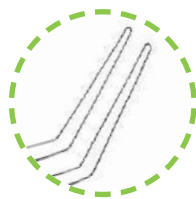
**EZCut®**  
**Zaldivar Style Sapphire Knife**  
 angled, trapezoid shaped blade,  
 0.55-1.0 mm width, 13.0 cm  
**\*E10-181**

ideal for making the side port incision



**EZCut®**  
**Micro Incision Sapphire Knife**  
 angled, spear shaped blade,  
 0.9-1.2 mm width, 13.0 cm  
**\*E10-170**

\* also available with Diamond Blade, see page 68-69



**Livisolo**  
**ICL® Loading Forceps**  
 angled 13 mm rounded jaws,  
 highly polished surface, 10.5 cm  
**E30-601T** titanium  
**E30-601** stainless steel

ideal to remove the ICL® from container  
 and place it inside the cartridge



**Livisolo**  
**ICL® Removal Forceps**  
 angled 13 mm jaws, TC textured,  
 flat inside surface, 10.5 cm  
**E30-602T** titanium  
**E30-602** stainless steel

ideal to grasp the ICL® inside the eye for removal  
 in case of upside-down placement of the lens

**Phakic IOL Forceps**  
 curved 15 mm shafts with delicate  
 T-bar jaws, universal lock, 11.5 cm

**E30-603T**



**ICL® Front Loading Forceps**  
 removable tip, 20GA/0.9 mm shaft,  
 angled 20°/1.2 mm wide jaws,  
 15.0 cm

**E30-604T**

Specially designed cup shaped  
 jaws to pull the ICL® through the  
 nozzle of the cartridge without  
 damage. This prevents the  
 ICL® from coming out  
 of the cartridge in the  
 upside down position



ICL® is a trademark of STAAR Surgical Company



*Instrument sets  
are presented as  
guidelines only*



Foldable Phakic Lens Implantation

**E42-128 PHAKIC LENS SET**  
complete, consisting of 1 each:

**E15-562T IOL Manipulator**, page 35

**E30-603T Phakic IOL Forceps**, page 169

**E10-360 Micro Diamond Knife**, page 69



ICL® is implanted into the posterior chamber  
Picture courtesy: STAAR Surgical Company

**E42-129 IMPLANTABLE CONTACT LENS SET**  
complete, consisting of the following instruments:

**E15-531T Vukich ICL® Lens Manipulator**, page 171

**E15-532T Deitz ICL® Slider/Tucker**, page 171

**E30-601T Livisolo ICL® Loading Forceps**, page 169

**E30-602T Livisolo ICL® Removal Forceps**, page 169

**E10-381 Zaldivar Style Diamond Knife**, page 69

*for Iridectomy add*

**EZChange®**

**Zaldivar Style Iridectomy Scissors**

rotatable 360° tip, 20GA/0.9 x 22 mm curved shaft,  
vertical cutting 2.0 mm curved blades with sharp tips, 15.0 cm

**E25-621Z**

*for easy iris cutting  
through side port  
incision*



**EZChange®**

**Kershner Micro Iridectomy Forceps**  
rotatable 360° tip, 23GA/0.6 x 22 mm  
curved shaft, 15.0 cm

**E30-623K**

*for iris pickup*



instrument tips

are coloured for

easier identification;

MAGENTA for scissors

BLUE for forceps and



ICL® is a trademark of STAAR Surgical Company

## IMPLANTABLE CONTACT LENS INSTRUMENTS

PMS



**EZGuard® Safety Instruments** - are premium instruments available on new titanium handle with retractable safety shield.

EZGuard®  
Vukich ICL® Manipulator  
0.6x1 mm oval tip, 13.0 cm

**E15-516P**



ICL® Manipulators have textured surface underside from tip...

EZGuard®  
Deitz ICL® Tucker and Slider  
0.75 mm forked tip, 13.0 cm

**E15-517P**



...for placement of the ICL® haptic under the iris; and backward angled 45°/11.0 mm long shaft...

EZGuard®  
Deitz ICL® Slider  
0.8 mm dia. ring tip, 13.0 cm

**E15-518P**



... for ease of manipulation of the ICL® through a paracentesis



PMS EZGuard® Safety Instruments **FEATURE:**

**AND THE MOST POPULAR INSTRUMENT TIPS**

### PROTECTION

Instruments have an integrated retractable shield specifically designed to protect health care workers from accidental sharp injuries.

### PERFORMANCE

The built-in shield protects the quality and consistency of the instrument tips from possible damage.

### SIMPLICITY

The integrated safety shield is activated by the user through screw locking device.

### MATERIAL

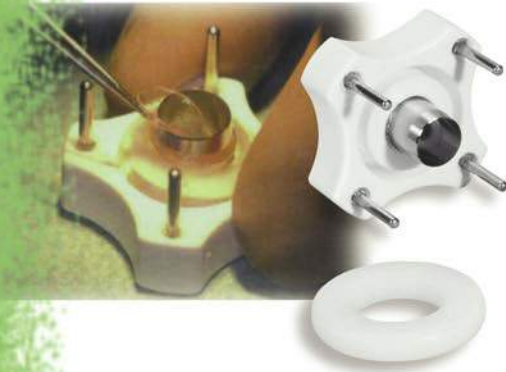
Stainless steel instrument tips are made from 302S26 orthodontic hard wire, this provides a hard wearing surface that will never rust and will hold for a good length of time.



also available on round handle - made of:

- stainless steel, page 21
- titanium, page 34
- aluminum, page 94

KERATORREFRACTIVE



**The Barron Donor Marking Punch** is a single use, sterile system, designed to make an exact cut of the donor tissue for corneal transplant surgery.

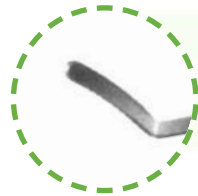
more information on page 140



- A7048 8.0 mm
- A7050 8.5 mm
- A7052 9.0 mm
- A7053 9.5 mm

**STERILE**  
**DISPOSABLE**

for punching the endothelial donor button



**Corneal Dissectors**  
12 mm long x 3 mm wide blade, semi-sharp front end, 11.5 cm

\*E15-331 angled, straight

\*E15-333 angled, curved

for intrastromal dissection

**Donor Tissue Insertion Spatula**  
4 x 8 mm smooth platform with two raised edges, 12.0 cm



\*E15-335

for atraumatically insertion of the donor lamella, raised edges prevent the graft from moving during insertion



**Membrane Manipulators**  
angled 12 mm shaft, blunt tip, 12.0 cm

\*E15-341 Reverse Sinsky Hook, 0.2 mm

\*E15-343 Z-shaped Hook, 0.15 mm

ideal for scoring the area of planned Descemet's removal and to manipulate the donor lamella into position



for tucking the donor lamella edge

\*also available on titanium round handle, add "T" to cat. no.



The Hessburg Barron Vacuum Trephine for cutting the recipient cornea is a single use, sterile instrument for lamellar or penetrating keratoplasty.



corneal graft trephination of recipient eye

more information  
on page 140

**A7034 7.5 mm**

**A7036 8.0 mm**

**A7038 8.5 mm**

**A7040 9.0 mm**

**STERILE**  
**DISPOSABLE**

**Bores**  
**Optic Zone Markers**  
without cross hair, 10.5 cm  
available in 8.0, 8.5  
and 9.0 mm dia.  
**E10-521+size**



for marking the recipient cornea

**DLEK Excision Scissors**  
extra long blades with lightly rounded tips, 11.0 cm  
ideal for excision of the recipient  
posterior lamellar disc

**E25-471** light curved  
for primary excision  
10 & 2 o'clock

**E25-472** medium curved  
for enlargement of excision 8 & 4 o'clock

**E25-473** strongly curved  
for completing the excision  
towards 6 o'clock position



**EZSert®**  
**Donor Tissue Insertion Forceps**  
vaulted, very thin 12.0 mm shanks with  
ultra fine platform tips and heel stop, 10.5 mm

**E30-541T** titanium  
**E30-541** stainless steel

to fold and insert the donor  
lamella - preferably coated with  
viscoelastics to minimise crushing of  
tissue - into the recipient's eye



**KERATORREFRACTIVE**



**DSAEK INSTRUMENTS**

*for patient preparation*

**KERATOREFRACTIVE**



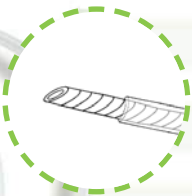
**Shapira**  
 DSAEK Eye Speculum  
 open 14 mm round blades,  
 blunt distal ends, 8.0 cm  
**E40-100P** stainless steel  
**E40-100TP** all titanium

*ideal for micro lamellar keratoplasty*



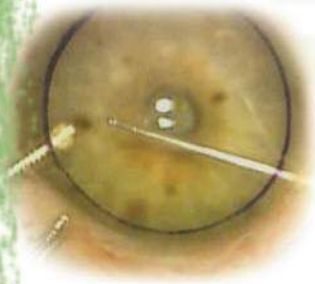
**DSAEK Marker**  
 double-ended, low profile rings of  
 8.0 mm and 9.0 mm dia., 12.0 cm  
**E10-529**

*for marking the Decemet's-Rhexis  
 on the epithelial side*



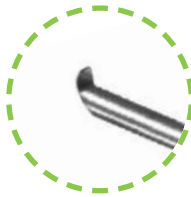
**Gispel**  
 DSAEK Anterior Chamber Maintainer  
 20GA/0.9 x 6 mm self-retaining, serrated tip  
 attached to silicone tubing with LL-adapter  
**E20-020SR**

*ideal to keep a deep chamber during stripping and  
 removal of the Descemet's membrane*



**DSAEK Endothelial Irrigating Stripper**  
 20GA/0.9 x 12 mm angled cannula,  
 thin, semi-circular 0.4 x 1.0 mm tip,  
 angled upward, 10.0 cm  
**E20-481**

*for gently stripping and removing  
 the endothelial layer*



*irrigation allows the surgeon  
 to maintain the chamber with  
 BSS thereby reducing the  
 dependence on viscoelastics*



*for insertion & positioning*



**EZSert®**  
 DSAEK Insertion Forceps  
 angled jaws, spatulated tips  
 with smooth, bevelled edges,  
 11.5 cm

**E30-330T** angled straight  
**E30-331T** angled curved

calibrated heel stop prevents  
 the tips from complete closing,  
 thus minimising trauma to  
 donor tissue



the edge of the donor graft is grasped with the foremost tips of the forceps and placed on the guide plate with the endothelial-side facing up

“What counts is the way you insert your graft into the anterior chamber and how you unfold it.”  
 — Massimo Busin, MD

**EZSert®**  
 Busin Style DSAEK Implantation Guide  
 angled shaft, thin concave plate with slot and 4 x 2.5 mm  
 funnel-shaped tip, 11.5 cm

**E15-344T** titanium  
**E15-344** stainless steel



illustration shows inverted position

to support “PULL-THROUGH” technique for quick and  
 easy insertion of the donor lamellar button  
 through a nasal clear corneal tunnel.

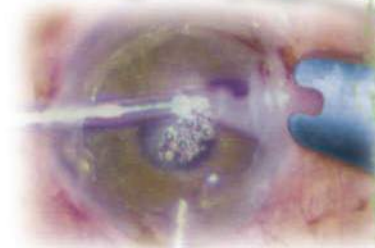


the donor lamella is pulled into the funnel-shaped part of the insertion guide using E30-549T forceps

**EZSert®**  
 DSAEK Grasping Forceps  
 rotatable 360° tip,  
 20GA/0.9 mm x 25 mm  
 curved shaft with micro  
 TC-textured jaws, 15.0 cm

**E30-549T**

used through opposite side entry to grasp  
 the donor tissue from the insertion guide  
 and to pull it into the anterior chamber



donor lamella is grasped and pulled into the A.C.

**NOTE:**  
 The medical information is not intended as instructional materials for  
 the performance of the demonstrated procedures or techniques.

**KERATORREFRACTIVE**