

PMS



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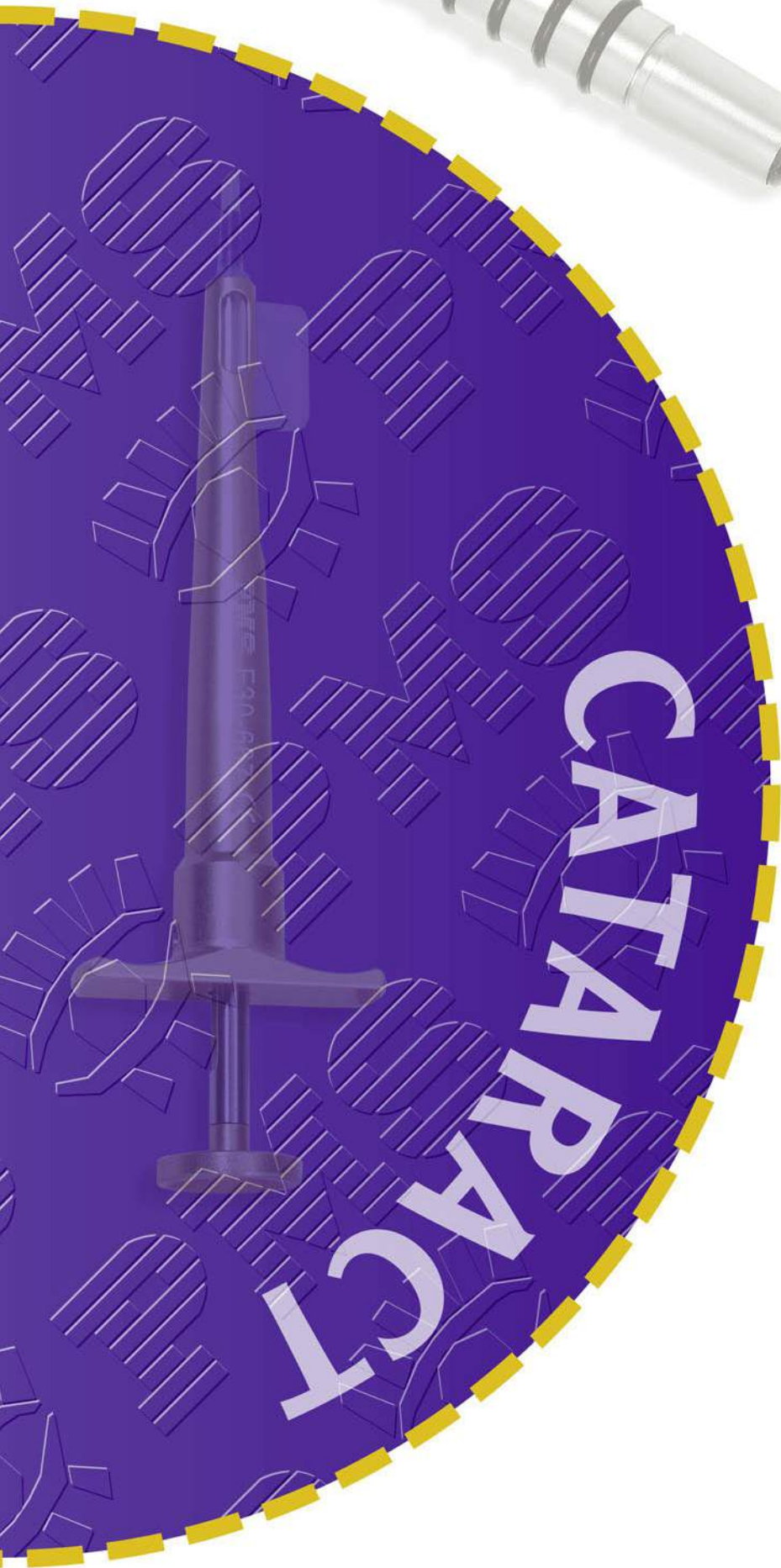
Cooper Medical Limited
57 Mahunga Drive
Mangere Bridge
Auckland 2022



CATARACT



PMS



ECED0308F



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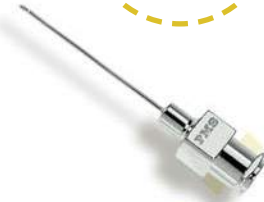
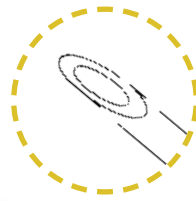
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CATARACT



ANESTHESIA NEEDLES



**Atkinson Style
Anesthesia Needles**
23GA/0.6 mm, bevel blunt tip

E20-672 peribulbar, 22 mm

E20-674 retrobulbar, 38 mm

E20-673 retrobulbar/peribulbar, 32 mm



**Atkinson Style
Peribulbar Needles**

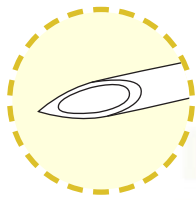
22 mm tube, bevel blunt tip,
single use, sterile (box of 10)

102-23-22 23GA/0.6 mm

102-25-22 25GA/0.5 mm

102-27-22 27GA/0.4 mm

Atkinson point needles - with single bevel 20° front open port - are designed to push aside blood vessels rather than perforate.



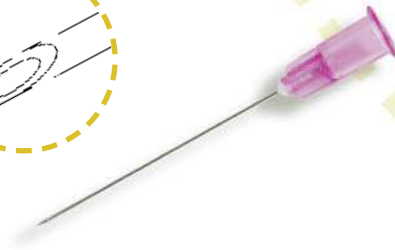
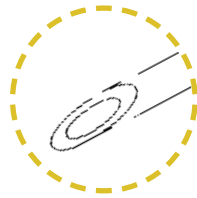
**Atkinson Style
Retrobulbar Needle**

38 mm tube, bevel blunt tip,
single use, sterile (box of 10)

101-23 23GA/0.6 mm

101-25 25GA/0.5 mm

103-25 25GA/0.5 mm, sharp point



**Atkinson Style
Retrobulbar/Peribulbar Needles**

32 mm tube, bevel blunt tip,
single use, sterile (box of 10)

102-23-32 23GA/0.6 mm

102-25-32 25GA/0.5 mm

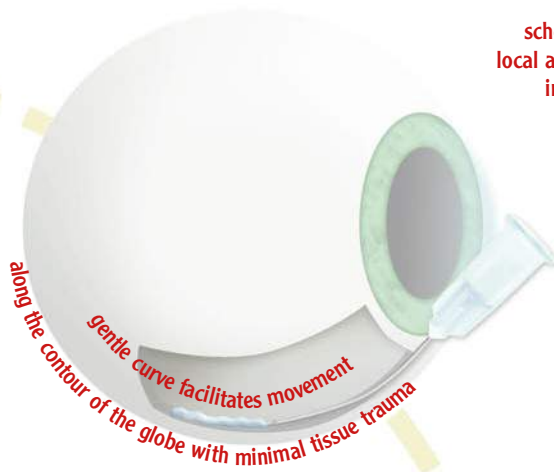


injection of local anesthetic prior to ophthalmic surgery

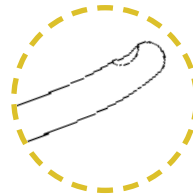
ANESTHESIA CANNULAE



schematic representation of
local anesthesia solution injection
into Sub-Tenon's space

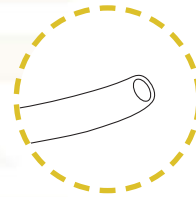


Corbin
Sub-Tenon Cannula
23GA/0.6 x 25 mm tube,
rounded tip, 0.3 mm top port
E20-683



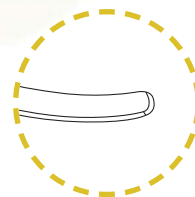
all cannulae are curved to a radius of 30 mm

Fukasaku
Sub-Tenon Cannula
23GA/0.6 x 25 mm tube,
tapered tip, front port
E20-685

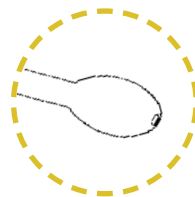


tapered and flattened tips facilitate advancement
within sub-Tenon tissue plain

Stevens
Sub-Tenon Cannula
21GA/0.8 x 25 mm tube,
flattened tip, front port
E20-689



Troutman
Alpha-Chymotrypsin Cannula
25GA/0.5 x 27 mm tube,
olive tip, front port
E20-089

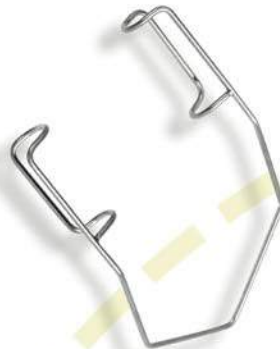


CATARACT INSTRUMENTS



EYE SPECULAE

CATARACT INSTRUMENTS



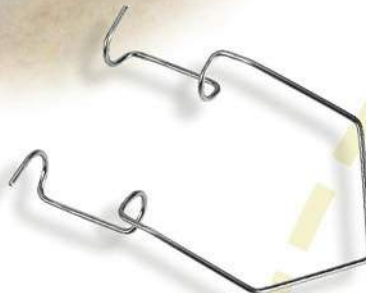
**Barraquer
Wire Speculum**

E40-011 adult size

E40-012 child size

E40-013 infant size

E40-017 adult, heavy wire model
to better control eyelids

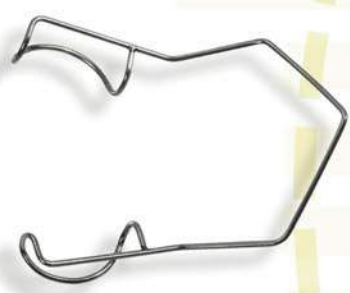


**Kratz-Barraquer
Wire Speculum**

E40-031 adult size

E40-032 child size

E40-033 adult, heavy wire model
to better control eyelids



**Barraquer
Wire Speculum (new model),
fenestrated rounded blades**

E40-015 adult size, for nasal approach

E40-016 child size, for nasal approach

E40-018 adult size, for temporal approach



**Jaffe
Eyelid Retractor Set**

E40-041 adult, 14 mm blade

E40-042 child, 10 mm blade
may be clamped to surgical drape
with suture or adhesives



**Kratz-Barraquer
Aspirating Speculum
6 ports on each blade**

E40-033AM adult size

E40-033AS child size

use with syringe
or suction on low

EYE SPECULAE

PMS



Lieberman style eye speculae are an excellent choice for cataract and other anterior segment surgeries

**Lieberman
Temporal Speculum**

E40-100 adult size

E40-100S child size



Kratz style open blades allow easy access for cataract incision with phaco or I/A tips

**Lieberman
Nasal Speculum**

E40-101 adult size

E40-101S child size



**Lieberman
Temporal Speculum**

E40-102 adult size

V-wire blades help to retain the surgical drape under the eyelids



**Lieberman
Temporal Speculum**

E40-104 adult size

E40-104S child size

solid blades keep eye lashes from entering the surgical field

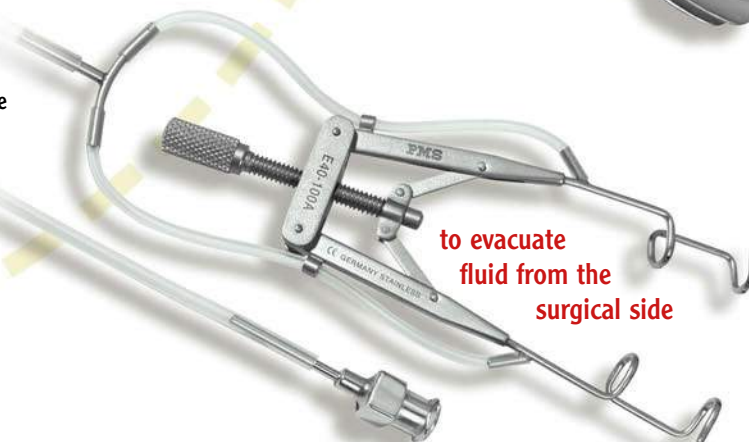


**Lieberman
Aspirating Speculum**
6 ports on each blade

E40-100A adult size

E40-100AS child size

to evacuate fluid from the surgical side



CATARACT INSTRUMENTS



GLOBE FIXATION RINGS

CATARACT INSTRUMENTS

Super instruments to achieve excellent fixation of the globe during construction of the Paracentesis, Phaco Incision, AK Incision, Limbal Relaxing Incision and during Lens Implantation.



Fyodorov
Phaco Fixation Ring
3/4 open swivel ring, with atraumatic concentric rings, 11.5 mm ID, 13.0 cm

E10-511T

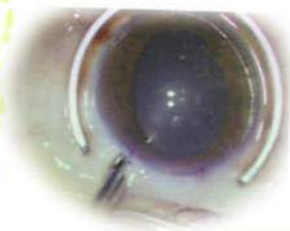
for atraumatic fixation of the eye during phaco



Fine-Thornton
Phaco Fixation Ring
3/4 open swivel ring, with multiple blunt teeth, 13.0 cm

E10-513 13 mm ID
for clear cornea incision

E10-516 16 mm ID
for scleral tunnel incision



Fine-Thornton
Phaco Fixation Ring
3/4 open swivel ring, multiple blunt teeth

E10-513T 13 mm ID
for clear cornea incision

E10-516T 16 mm ID
for scleral tunnel incision



Gimbel
LASIK Stabilising Ring, 3/4 open swivel ring, blunt teeth on both sides, 13 mm ID, 13.0 cm

E10-517

for stabilizing either the right or the left eye during LASIK

CALIPER AND MARKERS



most helpful for...

Castroviejo
Eye Caliper
double sided scale
E40-552 0-15 mm
E40-554 0-20 mm

...measuring white to white of the corneal and marking the limbal incision width

Osher
Incision Caliper
single scale reading
from 0 to 10 mm
E40-550

...internal measurement of cataract incisions

Galand
Incision Marker
pre-calibrated templates available in 3.0, 3.2, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 7.5 and 8.0 mm width
E40-560+ size

...measuring cataract incisions before phaco,...

Memmen
Incision Gauge
pre-calibrated templates ranging from 2.0 to 4.0 mm width in 0.10 mm increments
E40-561+ size

...after phaco and after IOL implantation

Marking Pen
Gentian Violet Ink
sterile (box of 10)
52-100

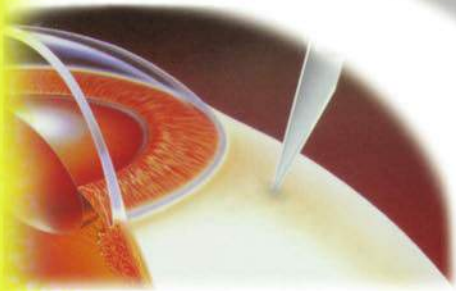
can be used with any refractive/
cornea marking instruments

CATARACT INSTRUMENTS



DISPOSABLE BLADES AND KNIVES

CATARACT INSTRUMENTS



Chuck Handle
(for miniature edged blades)

*E10-003K #3K, 10.0 cm

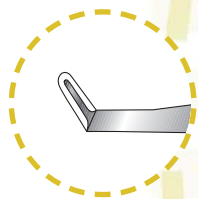
*E10-003KM #3KM, 7.5 cm



Miniature Edged Blades
sterile (pack of 10)

E10-065 #65 for stab incisions

E10-069 #69 for tunnel incisions



Lamellar Blades
#66-60, sterile (box of 6)

EL-6600

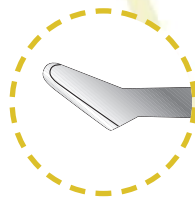
sharp all around surfaces;
ideal for undermining



Scleral Blades
#57, sterile (box of 6)

EL-5700

used for limbal incisions as well as preparing
scleral buckle tunnels in retina surgery



Scleral Knives
#57 with handle,
sterile (box of 6)

EL-6823H



*also available in titanium, please add "T" to cat. no.

CONJUNCTIVA AND TENOTOMY SCISSORS

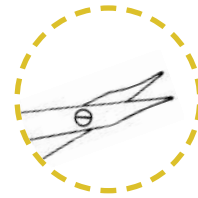
PMS



**McPherson-Westcott
Conjunctiva Scissors**
curved, small blades,
10.0 cm

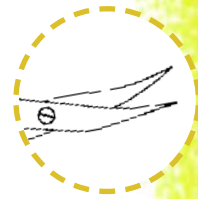
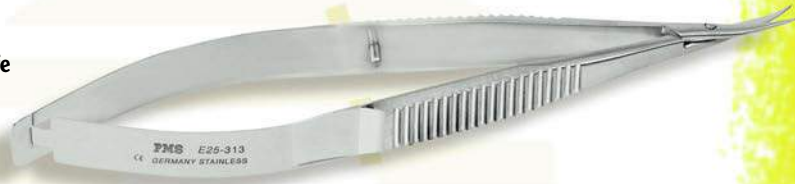
E25-311 sharp tips

E25-331 blunt tips



sharp tips are ideal for suture knots
and conjunctival incision, ...

**Jaffe
Stitch Scissors**
curved, medium blades,
sharp tips, 10.5 cm
E25-313



blunt tips for preparation and dissection of
other soft and delicate tissues, tendons, etc.

**Westcott
Tenotomy Scissors**
curved, medium blades,
blunt tips, 11.0 cm
E25-333



**Stevens
Tenotomy Scissors**
rounded blunt tips,

short model, 10.5 cm

E25-564 straight

E25-565 curved

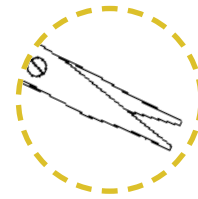
long model, 11.5 cm

E25-566 straight

E25-567 curved



strong, stable scissors for
performing a tenotomy

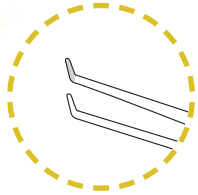


CATARACT INSTRUMENTS



CONJUNCTIVA FIXATION FORCEPS

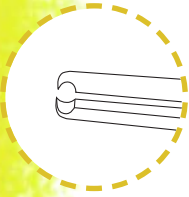
CATARACT INSTRUMENTS



New

Akahoshi Style
 Universal Micro Forceps
 angled 30°, blunt 0.35 mm tips
 with platform, TC textured
 inner surface, 10.5 cm
E30-239T

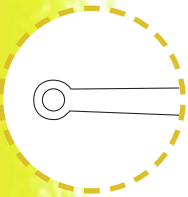
multi purpose forceps for fixating eye by grasping the bulbar conjunctiva; picking up foldable IOLs from case, implanting PMMA lenses, and fine suture tying



New

Koch Style
 Paracentesis Fixation Forceps
 grooved 0.1 mm tips, 11.0 cm
E30-240T

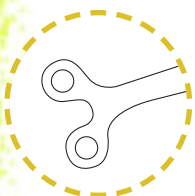
ideal to atraumatically hold the edge of the paracentesis during topical anesthesia procedures



New

Fechtner Style
 Conjunctiva Forceps
 ring shaped jaws with hole of 0.5 mm dia.,
 fine tying platform, 10.5 cm
E30-241T

these forceps are ideal for atraumatic grasping and handling of the conjunctiva and other soft tissue.



New

Solish Style
 Conjunctiva Forceps
 ring shaped jaws with
 2 holes of 0.4 mm dia.,
 tying platform, 10.5 cm
E30-242T

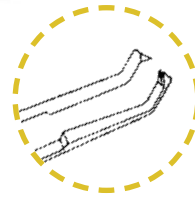
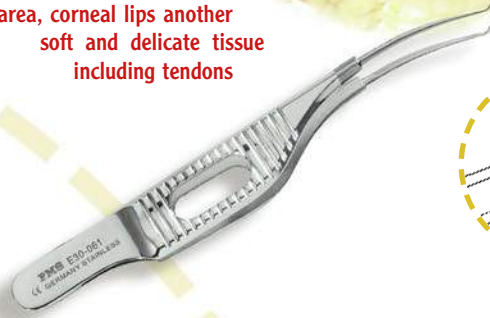
SUTURING FORCEPS

delicate, toothed forceps are ideal for manipulation and fixation of conjunctiva, limbal area, corneal lips another soft and delicate tissue including tendons

Barraquer-Colibri
Corneal Suture Forceps
1x2 teeth 90°, delicate tying platform, 7.5 cm

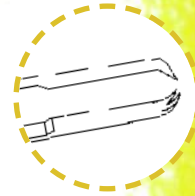
E30-061 0.12 mm

E30-063 0.30 mm



Micro (M-types)
Suture Fixation Forceps
1x2 teeth 45°, 0.12 mm delicate tying platform, 8.5 cm

E30-412



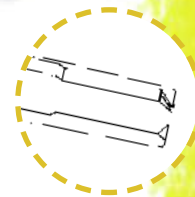
Troutman
Suturing Forceps
1x2 teeth 90°, 0.12 mm, delicate platform, 10.0 cm

E30-438

Tying Forceps
delicate platform

E30-428 straight

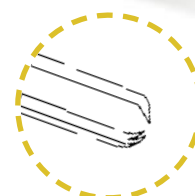
E30-429 curved



Castroviejo
Fixation Forceps
1x2 teeth 45°, 10.5 cm

E30-453 0.3 mm

E30-455 0.5 mm



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CATARACT INSTRUMENTS



DISPOSABLE EYE KNIVES

CATARACT INSTRUMENTS

***Stab Knives**
 EG-1500 15°
 EG-3000 30°
 EG-4500 45°

15° Stab
 for initial stab incision

20 Ga MVR
 for 20GA vitreoretinal infusion port or paracentesis incision

***Stiletto MVR Knives**
 EG-5560 straight
 EG-5660 angled

for smooth, true point micro sideport incision

EZCut® Sapphire Eye Knives
 straight, single edge blade, 1.0 mm x 0.2 mm thick

EZ-1030 30° angle
 EZ-1045 45° angle
 EZ-1060 60° lancet

for accurate width clear cornea or sclera incision

EZCut® Sapphire Phaco Knives
 angled, single edge, lancet 60° blade

EZ-1028 2.8 mm wide
 EZ-1030 3.0 mm wide
 EZ-1032 3.2 mm wide

disposable knives, sterile, 6 per box

* Manufacturer:
 EAGLE LABS
 Rancho Cucamonga,
 California, USA

DISPOSABLE PHACO KNIVES

PMO



***Crescent Knife**
angled 2.0 mm blade
(bevel up),
EG-9402



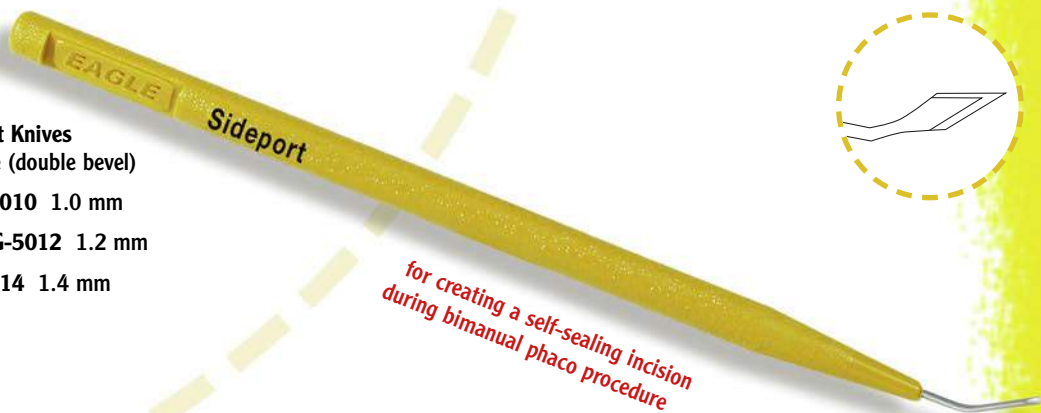
***Phaco Slit Knives**
angled blade (bevel up)
EG-4740 2.85 mm
EG-5570 3.0 mm
EG-5572 3.2 mm



***Phaco Slit Knives**
(2.0 mm Sub)
angled blade (bevel up)
EG-1015 1.5 mm
EG-1018 1.8 mm
EG-1020 2.0 mm



***Sideport Knives**
angled blade (double bevel)
EG-5010 1.0 mm
EG-5012 1.2 mm
EG-5014 1.4 mm



disposable knives, sterile, 6 per box

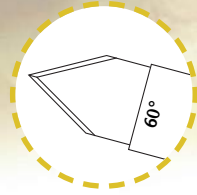
*  Manufacturer:
EAGLE LABS
Rancho Cucamonga,
California, USA

CATARACT INSTRUMENTS



SAPPHIRE KNIVES

PMS EZCut® Sapphire Phaco Knives
 - providing consistent sharpness for repeated use - are the perfect choice for those who want performance without the cost of a diamond knife.

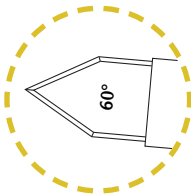


very sharp precision cutting edges reduce trauma to the wound and recovery time following surgery

EZCut®
Sapphire Phaco Knives
 angled, lancet 60° blade (double edge)

- E10-122** 2.8 mm
- E10-123** 3.0 mm
- E10-124** 3.2 mm

for controlled clear cornea and sclera incisions

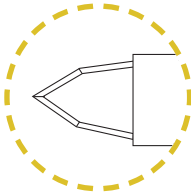


EZCut®
Sapphire Clear Cornea Knives
 angled, keratome 60° blade (4 cutting edges)

- E10-142** 2.8 mm
- E10-143** 3.0 mm
- E10-144** 3.2 mm

for accurate clear cornea incisions

lightweight titanium handles have gnarling to aid secure grasping and holding during the procedure

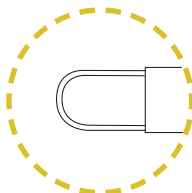


EZCut®
Sapphire Trapezoid Knives
 angled, tapered spear blade (double lancet)

- E10-152** 2.1-2.9 mm
- E10-153** 2.35-3.2 mm
- E10-154** 2.5-3.4 mm

for precise and controlled phaco incisions

handles are spring action bayonet style for protection of the sapphire when not in use



EZCut®
Sapphire Crescent Knives
 angled, facet-free blade (bevel up)

- E10-191** 1.5 mm
- E10-192** 2.0 mm

for scleral tunnel incisions

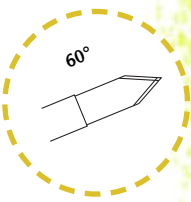
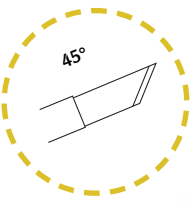
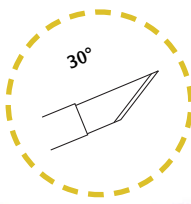
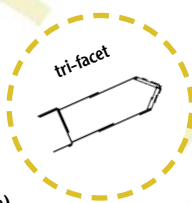
when the plunger is pushed forward the knife is ready for surgery

SAPPHIRE KNIVES

PMS



only models with width of 1.2 mm or less can be used for sideport incision



EZCut®

Sapphire Universal Knives
straight blade (double edge)
1.0 mm width x 0.2 mm thick

E10-112 20° tri-facet

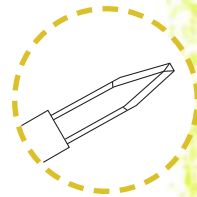
E10-113 30° angle

E10-114 45° angle

E10-116 60° lancet

E10-121 60° lancet, 1.2 mm wide

for smooth, true point micro stab incision



EZCut®

Sapphire Micro Incision Knives
angled, tapered spear shaped blade

E10-170 0.9-1.2 mm

E10-171 1.3-1.5 mm

E10-172 1.8-2.4 mm

for ultra small, precise bimanual phaco incision

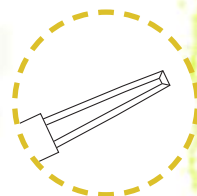


EZCut®

Sapphire Zaldivar Style Knife
angled, trapezoid shaped blade,
0.55 - 1.0 mm width,
4.5 mm long

E10-181

ideal for anterior segment procedures, initial groove,
sideport, sclera tunnel, clear cornea technique, etc.



Sterilising Case
(autoclavable) clear plastic,
for 1 sapphire knife

E45-000



supplied
without knife

CATARACT INSTRUMENTS



SAPPHIRE KNIVES - RETRACTABLE HANDLES

FEATURES AT A GLANCE:

- New lightweight, ALL-aluminum handle
- Round for perfect balance and control
- Compatible with EZChange® blade holder
- Selective, highly economical solution, too
- Available in five colours:

New

E10-200AY handle, yellow

E10-200AR handle, red

E10-200AG handle, green

E10-200AB handle, blue

E10-200AP handle, purple



When changing the blade, place your fingers firmly on the flat part of the shaft and turn handle anti-clockwise to unscrew. Avoid touching the blade!



Do not use aggressive (alkaline) detergents or any kind of acid based products for cleaning the aluminium handle. Never use BSS for rinsing.

SAPPHIRE BLADES - BLADE HOLDER

PMO

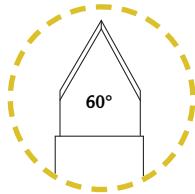


New

- Corundum Clear Gemstones; sharp similar to diamond
- All blades are computer video cut and inspected
- Blades fully mounted in stainless steel shaft

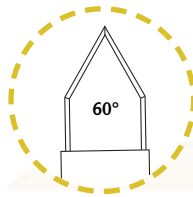


blade shapes	width in mm	removable holder with sapphire blade
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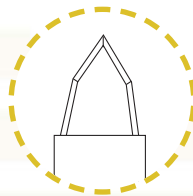
Lancet	2.8	E10-222
	3.0	E10-223
	3.2	E10-224

for controlled clear cornea and sclera incision



Keratome	2.8	E10-242
	3.0	E10-243
	3.2	E10-244

for accurate clear cornea incision



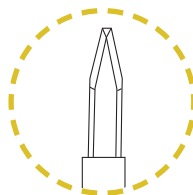
Tapered Spear	2.5/2.9	E10-252
	2.5/3.2	E10-253
	2.5/3.4	E10-254

for precise phaco incision



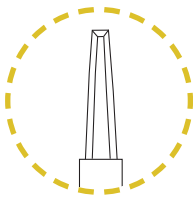
Crescent	1.5	E10-291
	2.0	E10-292
	2.8	E10-293

for smooth scleral shelf incision



Trapezoid	0.9/1.2	E10-270
	1.3/1.5	E10-271
	1.8/2.4	E10-272

for ultra small bimanual phaco incision



Zaldivar Style	0.55/1.0	E10-281
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for anterior segment procedures, initial groove, side-port, sclera tunnel, clear cornea technique, etc.

Sapphire blade is fully mounted in a stainless steel shaft with thread



CATARACT INSTRUMENTS

Choose your own handle and blade style



DIAMOND KNIVES

NOTE: Complementary sterilisation tray is included with diamond knife purchase.

CATARACT INSTRUMENTS

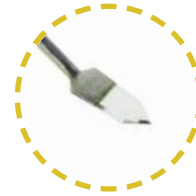
EZCut®

Diamond Phaco Knives
lancet shaped 60° blade
(double edge)

E10-322 2.8 mm

E10-323 3.0 mm

E10-324 3.2 mm



for Clear Corneal and Scleral Incisions
Angled diamond knives in new titanium handle with bayonet mechanism.

EZCut®

Diamond Clear Cornea Knives
keratome shaped 60° blade
(4 cutting edges)

E10-342 2.8 mm

E10-343 3.0 mm

E10-344 3.2 mm



EZCut®

Diamond Trapezoid Knives
tapered spear shaped blade
(double lancet)

E10-352 2.0-2.3 mm

E10-353 2.6-3.0 mm

E10-354 2.8-3.2 mm

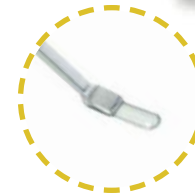


EZCut®

Diamond Tunnel Knives
crescent shaped (9 facet) blade

E10-391 1.5 mm

E10-392 2.0 mm



Individual Designs and Special Mountings on Request.

DIAMOND KNIVES



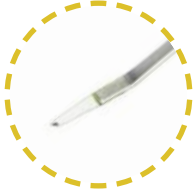
EZCut®

Diamond Micro Incision Knives
tapered spear blade (double lancet)

E10-360 0.9-1.2 mm

E10-361 1.3-1.5 mm

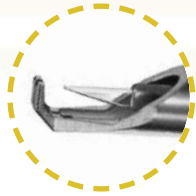
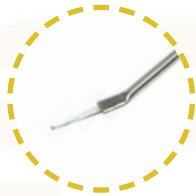
E10-362 1.8-2.0 mm



EZCut®

Diamond Zaldivar Style Knife
trapezoid shaped blade,
0.55 - 1.0 mm width,
4.5 mm long

E10-381



for Arcuate and T-Incision

Diamond Micrometer Knives are developed to complement modern surgical techniques for correction of myopia, astigmatism and hyperopia.



for Limbal Relaxing Incision (LRI)

Diamond Step Knives with single foot plate and preset blade depths are ideal to make controlled scleral incisions.

For more details please refer to page 157

Repairshop for all Types of Diamond Knives.



CARE PRODUCTS FOR DIAMOND KNIVES

CATARACT INSTRUMENTS



wet fully before use

Netcell®
Instrument Wipe
3" x 3" x 2 mm sponge,
single use, sterile (box of 20)

37-900

ideal for cleaning diamond blades,
and wiping delicate instrument tips



Netcell®
Diamond Knife Cleaning Block
single use, sterile (box of 10)

37-462

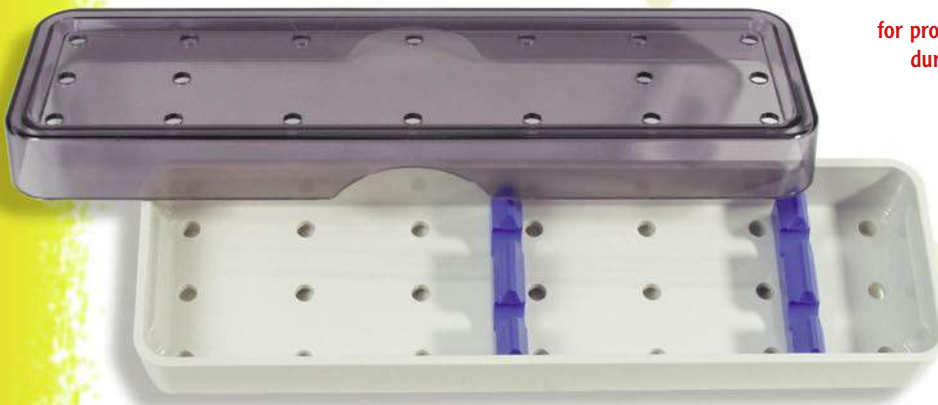
small pore construction absorbs fluids, ideal to
remove stains and debris from diamond blade



Economy
Illuminated Magnifying Loupe (pocket size)
biconvex lens 30 mm dia., 21.0 dpt./6.25X

1571

used to examine the cutting edge of diamond
knives and instrument tips prior to sterilisation



Minitainer
Sterilising Tray
autoclavable plastic (180 x 75 x 18.5 mm)
lid/base are perforated for steam penetration

E45-001 for 1 diamond knife

E45-002 for 2 diamond knives

for protecting diamond knives
during sterilisation and storage



CARE AND HANDLING TIPS FOR PMS SAPPHIRE AND DIAMOND KNIVES

WASH

Immediately after each use flush diamond blade with running water or distilled water using a syringe.

WIPE

Gently wipe the diamond blade from back to the tip with a lint-free, moistened special sponge (art. no. 37-900).

CLEAN

If the diamond blade is still not clean, use a diamond knife cleaning block (art. no. 37-462) to remove stains or debris.

ULTRA SONIC

Ultra Sonic Cleaning is not recommended. Where used, restrict to low power for 60 seconds with the blade retracted into the handle.

EXAMINE

The diamond blade should be examined under high magnification for tip and cutting edge damage prior to sterilisation and each use.

RETRACT

Fully retract the diamond blade into the handle safety position and **STORE** it in a protective tray (art. no. E45-002) for sterilisation.

STERILISE

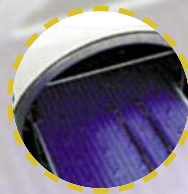
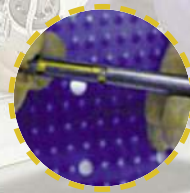
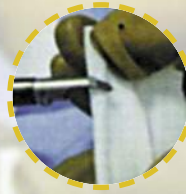
The diamond blade can be gas, flash or steam sterilised (in autoclave). The temperature should not exceed 273°F/134°C.

CLOSE

Never keep the diamond blade open while handing it over to others or when laying it down (store it).

TOUCH

Always ensure that the diamond blade never touches any metal surface. If possible keep your diamond knife separate from other instruments.

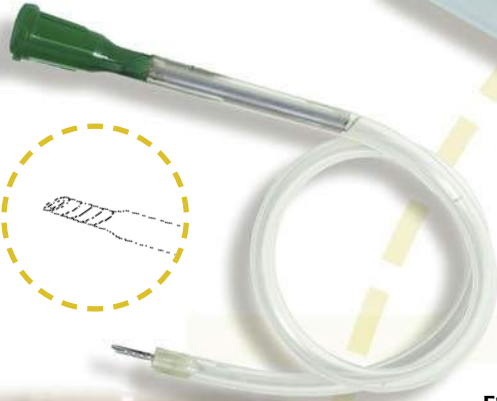




ANTERIOR CHAMBER MAINTAINER



Bishop-Harmon
AC Irrigator System
E20-001 complete
E20-002 silicone bulb
E20-003 LL adaptor
E20-004 19GA cannula



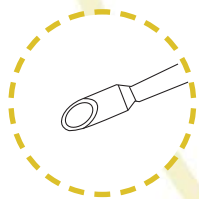
Lewicky
Anterior Chamber Maintainer
 20GA/0.9 x 6 mm serrated tip
170-20 disposable (box of 3)
E20-020ST reusable

cannula tips of reusable maintainers are attached to 180 mm long silicone tubing with Luer-Lock adaptor

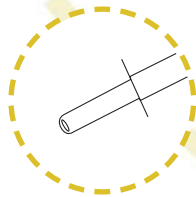


Heslin
Anterior Chamber Maintainer (reusable)
 23GA/0.6 x 6 mm bevelled blunt tip
E20-023PT polished
E20-023TT textured

Anterior Chamber Maintainer (reusable)
 23GA/0.6 x 6 mm "Flager" tip
E20-023FT



Rainin
Suturing Cannula Set (reusable)
 18GA/1.2 x 6 mm blunt tip,
 with suturing flange
E20-018SF



ANTERIOR CHAMBER IRRIGATORS

PMO



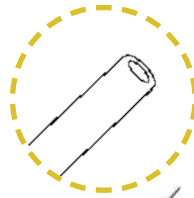
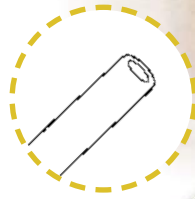
Anterior Chamber Irrigating Cannula

25 mm straight tube,
single use (box of 10)

112-25 25GA/0.5 mm

112-27 27GA/0.4 mm

112-30 30GA/0.3 mm



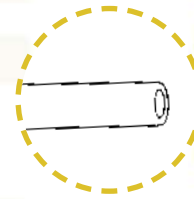
Anterior Chamber Irrigator

25 mm tube, angled 7 mm,
single use (box of 10)

110-25 25GA/0.5 mm

110-27 27GA/0.4 mm

110-30 30GA/0.3 mm



McIntyre

Anterior Chamber Cannula

15 mm straight tube - 12 mm angled tube

E20-043 30GA/0.30 mm E20-047

E20-045 26GA/0.45 mm E20-048

E20-046 23GA/0.60 mm E20-049



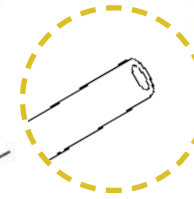
Rycroft

Air Injection Cannula

20 mm tube, angled 5 mm

E20-030 30GA/0.3 mm

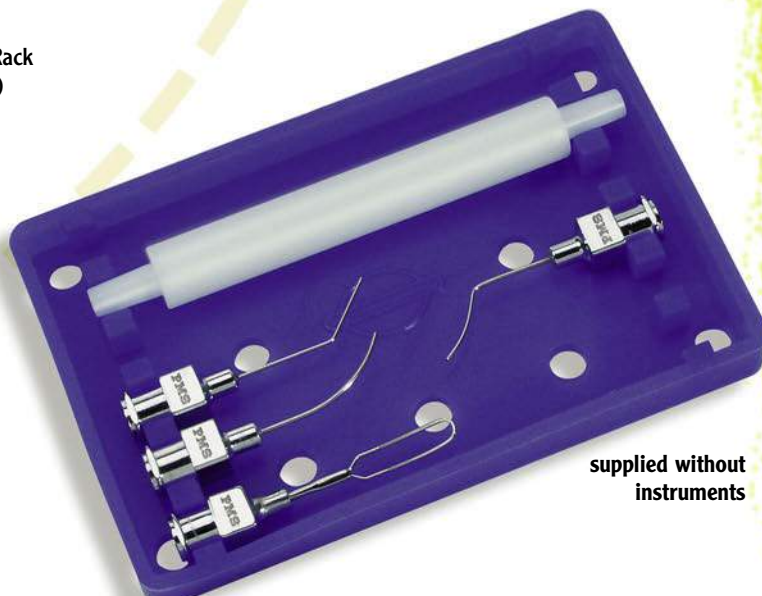
E20-031 27GA/0.4 mm



Silicone Cannula Rack
autoclavable, (85x55x8 mm)

E45-085

for secure positioning of
conventional cannulae
and handpieces



supplied without
instruments

CATARACT INSTRUMENTS



DISPOSABLE IRRIGATING CYSTOTOMES

CATARACT INSTRUMENTS



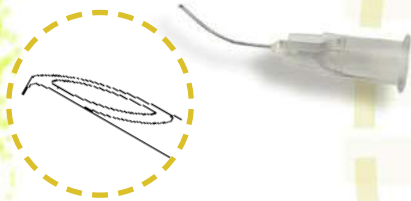
1 ml syringe provides the optimum hydraulics and feel; larger syringes can produce excessive flow with only light pressure of the plunger



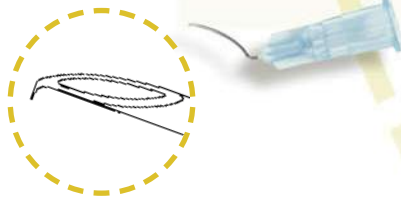
Irrigating Cystotome, straight
120-25S 25GA/0.5 x 16 mm
120-27S 27GA/0.4 x 13 mm
120-30S 30GA/0.3 x 19 mm
 to perform a can-opener technique

All Glass Syringe
 Luer-Lock cone
E20-801 1 ml
E20-802 2 ml

provides smooth control of hydrodissection, hydrolineation and manipulation of the nucleus



Joyce
Irrigating Cystotome, curved
220-25 25GA/0.5 x 16 mm
220-27 27GA/0.4 x 13 mm
 for intercapsular/endocapsular techniques



Irrigating Cystotome, formed
120-25F-12 25GA/0.5 x 16 mm
120-27F-12 27GA/0.4 x 13 mm
 for direct puncture capsulorhexis



Irrigating Cystotome, angled
123-25 25GA/0.5 x 16 mm
123-27 27GA/0.4 x 13 mm
 for CCC techniques

disposable cannulae, sterile, 10 per box



Manual Capsulorhexis remains the favourite standard procedure as it offers greater resistance to capsule tearing and also reveals a smooth regular edge.

Direct Puncture Capsulorhexis

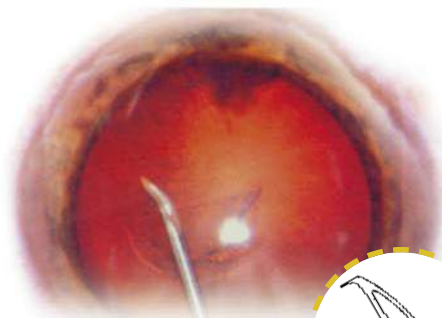
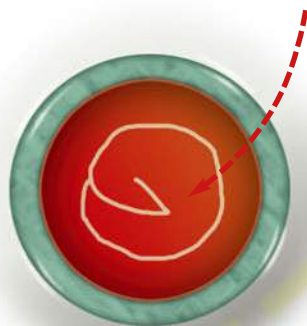
A simple technique is to use a 27 gauge or 30 gauge bent cystotome and directly puncture the clear cornea to create a capsulorhexis without a groove or stab incision. The technique offers savings in instruments and viscoelastics and is ideally suited for bimanual micro incision phaco surgery. For more details: M.Spencer, MD, 1179 Seafield Crescent, Nanaimo, BC V9S4S1, Canada, E-mail: martin.spencer@shaw.ca

Continuous Curvilinear Capsulorhexis (with cystotome cannula)

Initiation of a 5 to 6.5 mm continuous curvilinear capsulorhexis (CCC) is performed with a 27 gauge or 30 gauge bent needle. The cystotome is introduced through the side port and creates the first puncture on the center of the anterior capsule and then creates the anterior capsular flap. The anterior capsule is torn in a curved fashion by pushing or pulling the flap to create an optimal circular opening.

Continuous Curvilinear Capsulorhexis (with forceps)

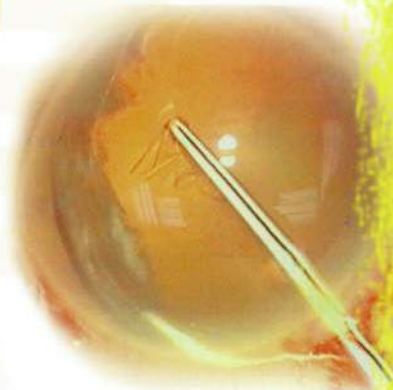
The tips of a capsulorhexis forceps are used to puncture the anterior capsule. A flap is created by grasping the inferior end of the puncture and lifting it anteriorly. The edge of the flap is grasped and then re-grasped in a curved fashion creating a circular tear. **Ideally, the puncture site should always be in the central "safe" area of the anterior lens capsule.**



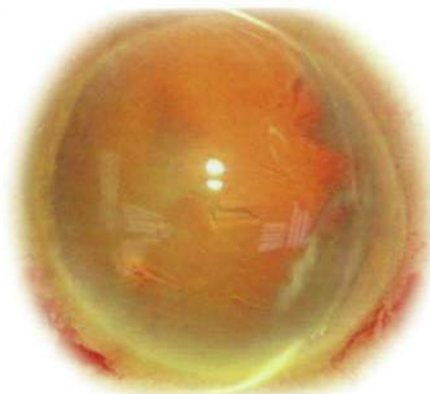
Capsulorhexis in progress using a cystotome cannula



Anterior capsule is torn to complete a circular tear



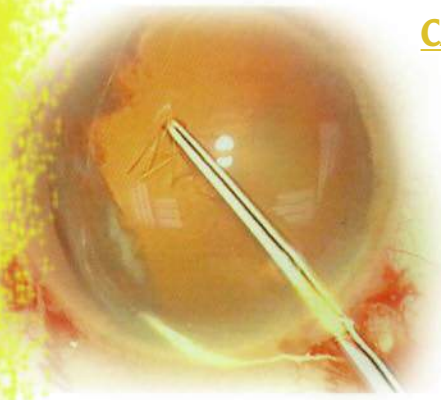
Capsular flap grasped with capsulorhexis forceps



Capsulorhexis shown with an optimal circular opening



CAPSULOREXIS FORCEPS



“Always keep in mind”
 a well defined capsulotomy is of supreme importance. An irregular capsulotomy will create difficulties throughout the remainder of the procedure.



Utrata
 Capsulorhexis Forceps
 angled 11 mm shanks,
 10.5 cm
E30-581+

TIP DESIGNS



blunt tips
 +BL

...grip, lift and pull



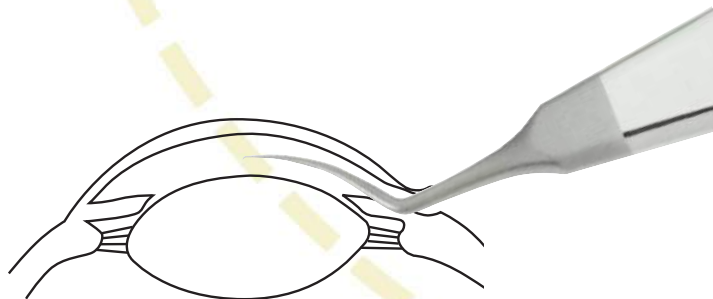
sharp tips
 +SH

...penetrate and tear

triangular jaws with delicate platforms and ultra fine grasping tips are ideal to...



Masket
 Capsulorhexis Forceps
 vaulted 11 mm shanks,
 10.5 cm
E30-589+



vaulted shaft forceps allow to perform the capsulorhexis from a more posterior incision without gaping the wound

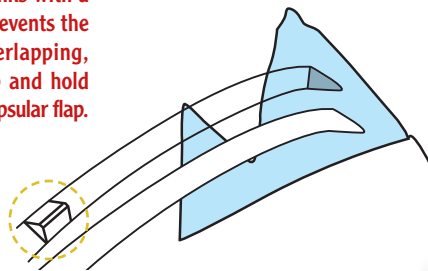
*when ordering please specify tip design: BL=blunt, SH=sharp

CAPSULOREXIS FORCEPS

PMS



Featuring very thin, angled and vaulted shanks with a calibrated heel stop. This design prevents the ultra fine tips from overlapping, tough enough to grip and hold the edge of the capsular flap.



Utrata
Capsulorhexis Forceps
angled 11 mm shanks,
10.5 cm
E30-583+



Masket
Capsulorhexis Forceps
vaulted 11 mm shanks,
10.5 cm
E30-590+



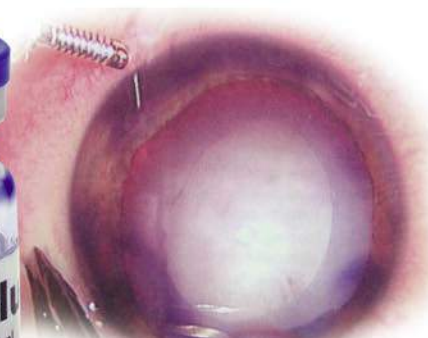
Inamura Style
Capsulorhexis Forceps
vaulted 13 mm shanks,
ultra fine tips, 12.0 cm
E30-591+



ideal for CCC during
micro incision surgery

Oftalblu
Trypan blue 0.1 %
-sodium chloride- purified water
does not contain preservatives
supplied in 1 ml bottle, sterile packaged

sterile intraocular solution for
anterior capsule staining
during cataract operati-
on



A CCC is performed with the aid of
trypan blue and an ACM inserted
through the paracentesis.

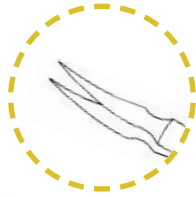
CATARACT INSTRUMENTS



CAPSULOTOMY SCISSORS

CATARACT INSTRUMENTS

ideal for cutting the anterior capsule, ...

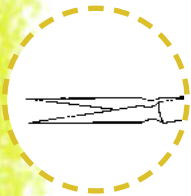


Vannas
Capsulotomy Scissors
5 mm blades, sharp tips, 8.2 cm

E25-400 straight

E25-401 curved

E25-405 angled



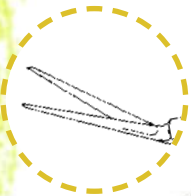
Gills-Vannas

Capsulotomy Scissors
7 mm blades, sharp tips, 8.2 cm

E25-410 straight

***E25-411** curved

E25-415 angled



Ong

Capsulotomy Scissors
angled 9 mm blades, 8.5 cm

E25-440 blunt tips

E25-442 sharp tips



EZChange® Side Port Capsulotomy Scissors

removable tips with 20GA/0.9 x 30 mm curved tube,
2 mm sharp blades, 15.2 cm

E25-460 straight blade

E25-461 curved left

E25-462 curved right

ideal for cutting capsulorhexis
edge through a paracentesis



removable scissors tips
(**E25-460R**, **E25-461R** & **E25-462R**)
and titanium squeeze handle (**E25-600T**)
can be ordered separately

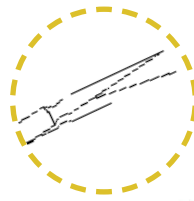
*also available on titanium handle, please add "T" to cat. no.

CAPSULOTOMY SCISSORS

PMB



snips capsule tags, iris, cornea and membranes



Gills-Welsh
Capsulotomy Scissors
very thin 10 mm blades,
sharp tips, 8.5 cm

E25-430 straight

E25-431 curved



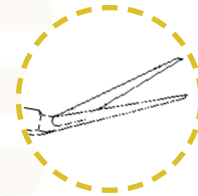
Uthoff-Vannas
Capsulotomy Scissors
very thin 10 mm blades,
strong curve, blunt tips,
8.2 cm

E25-433



Stern-Gills
Capsulotomy Scissors
very thin 10 mm blades,
angled up, sharp tips,
8.5 cm

*E25-435



Janach 4223 Style
Micro Capsulotomy Scissors
very delicate 7 mm blades,
lightly curved, 10.5 cm

E25-451 blunt tips

E25-453 sharp tips



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

CATARACT INSTRUMENTS



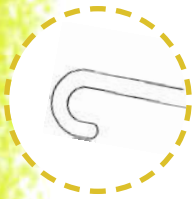
NUCLEUS MOBILISATION INSTRUMENTS

CATARACT INSTRUMENTS



Barraquer
Iris Repositor
vaulted 12 x 0.5 mm
rounded blade, 12.0 cm
E40-662

ideal for repositioning - tucks,
pushes, retracts and retains
- the iris during ECCE



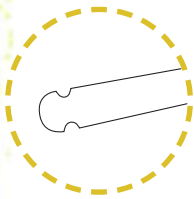
Bonn
Micro Iris Hook
delicate 0.3 mm blunt tip, 12.0 cm
E15-602 straight
E15-603 angled

used to retract the iris
and anterior capsule, supports nucleus delivery



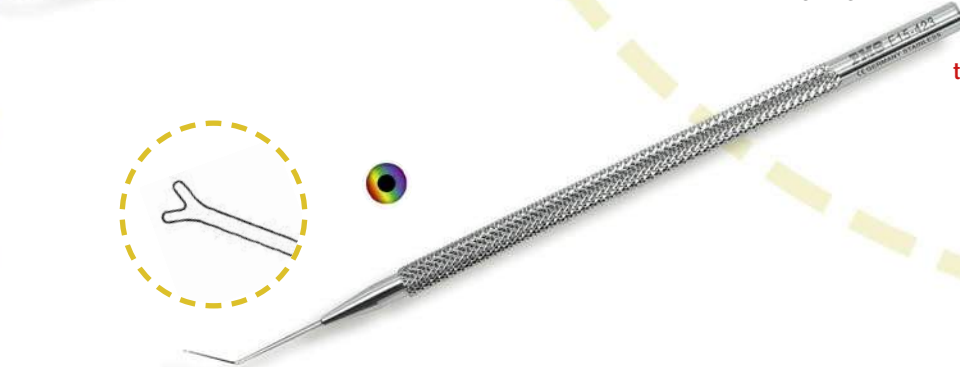
Barrett
Nucleus Rotator/Manipulator
angled 90° "mushroom style" tip, 11.5 cm
E15-466

used to control, manipulate and
divide either soft or hard nucleus



Koch II
Nucleus Spatula
light curved "duckbill style" tip with notches, 11.5 cm
E15-418

placed under the nucleus
to control and support easy
delivery into anterior chamber



Jaffe-Bechert
Nucleus Rotator
angled 9 mm, blunt forked tip, 11.5 cm
E15-423

used to impale,
lift and remove
the nucleus into the
anterior chamber



also available on coloured aluminium handles, see page 95, 107 and 131

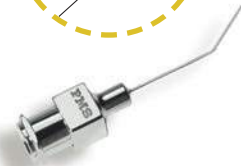
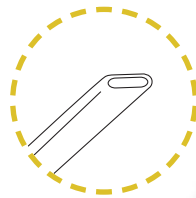
NUCLEUS REMOVAL CANNULAE

PMS



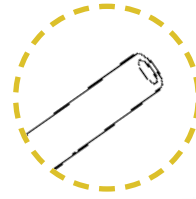
Rainin
Irrigating Cannula
20 mm tube, angled 7 mm
horizontal flattened tip
E20-033 30GA/0.3 mm
E20-034 27GA/0.4 mm

used to create a separation plane between the nucleus and posterior cortical position of the lens



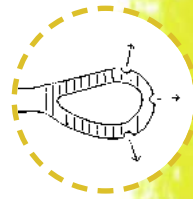
Gill
Cortex Aspiring Cannula
25GA/0.5 x 20 mm tube,
angled 5-9 mm round tip:
E20-164 5 mm
E20-167 7 mm
E20-169 9 mm

used to remove the anterior cortex and epinucleus through a side port incision



Sheets
Irrigating Vectis
23GA/0.6 x 35 mm tube,
finely serrated 6x9 mm loop,
with 3 irrigating ports
E20-231

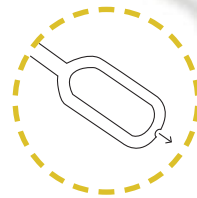
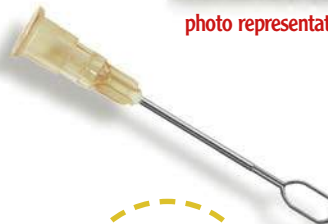
used to effectively remove
- irrigate, separate and lift out -
the lens nucleus and large cortical debris



Irrigating Vectis
25GA/0.5 x 35 mm tube,
with 0.3 front opening port,
single use, sterile (box of 10)
140-25-1 1 open port
140-25-2 2 open ports
140-25-3 3 open ports



photo representation of lens nucleus removal



CATARACT INSTRUMENTS



IRRIGATION AND ASPIRATION CANNULAE

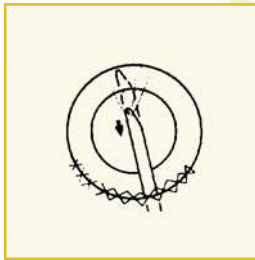
CATARACT INSTRUMENTS



**Simcoe (Reusable)
Double I and A Cannula**
23/23GA x 15 mm tube,
0.3 mm aspirating port with
silicone tubing and LL adaptor
E20-300 original model
E20-301 reverse model



Manual irrigation and aspiration of lens cortex.



Inferior cortex approached via superior incision.



Superior cortex approached via inferior stab wound.



Vacuum cleaning of capsule with posterior capsule polishers.



**Simcoe (Disposable)
Double I and A Cannula**
23/23GA x 15 mm tube,
0.4 mm aspirating port with
flexible tubing and adaptor,
sterile (box of 6)
150-23 original model
150-23R reverse model



Aspirating Syringe (Disposable)
with spring and LL cone,
sterile (box of 10)
300-03 3 ml
300-05 5 ml

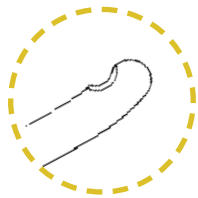
aspirating syringes provide smooth, one-handed aspiration when plunger is compressed against spring device and gradually released

CORTEX REMOVAL CANNULAE



Simcoe (Reusable)
Cortex Extractor Cannula
23GA/0.6 mm tube,
0.3 mm top port

E20-151 13 mm
E20-152 21 mm



Simcoe (Disposable)
Cortex Extractor Cannula
22 mm tube, 0.3 mm top port,
single use, sterile (box of 10)

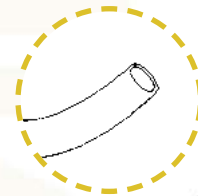
108-23 23GA/0.6 mm
108-25 25GA/0.5 mm



curved cannulae are very popular for aspirating
difficult 12 o'clock cortex through a paracentesis

Charleux (Reusable)
Cortex Aspirating Cannula
23 GA/0.6 mm tube,
0.35 mm front port

E20-153 13 mm
E20-154 21 mm



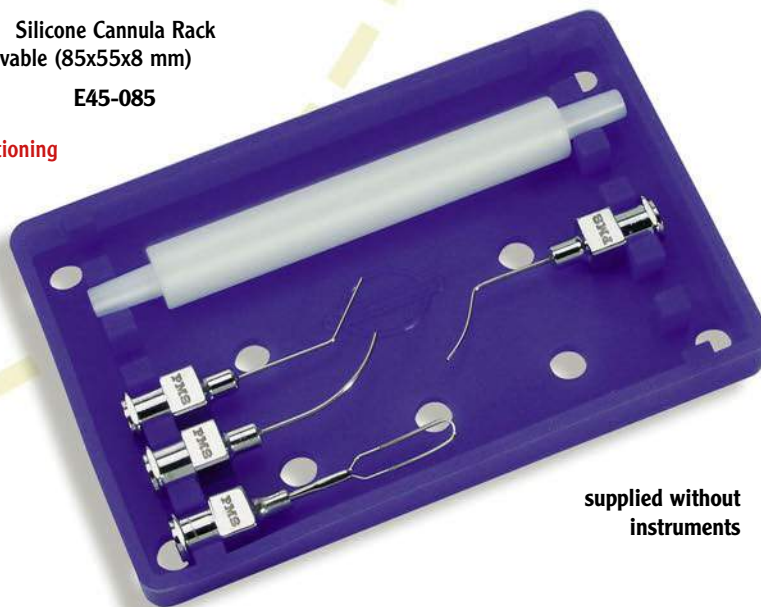
McIntyre
Handpiece
(autoclavable) Teflon

E20-880 for irrigating
male/female Luer slips, 6.8 cm
E20-881 for aspirating
male/male Luer slips, 7.5 cm



Silicone Cannula Rack
autoclavable (85x55x8 mm)
E45-085

for safe and selective positioning
of conventional cannulae
and handpieces



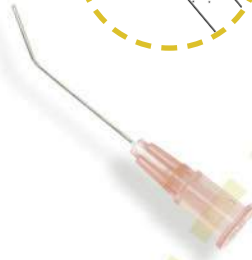
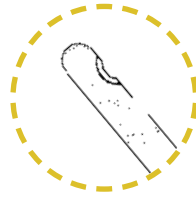
supplied without
instruments

CATARACT INSTRUMENTS



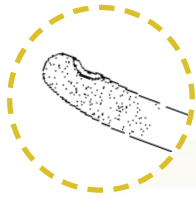
CAPSULE POLISHING CANNULAE

CATARACT INSTRUMENTS



Kratz
Capsule Polisher
 25 mm tube, angled 8 mm,
 rough tip, 0.3 mm top port
125-21 21GA/0.80 mm
125-24 24GA/0.55 mm

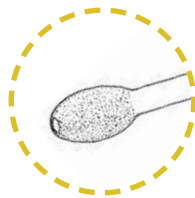
sandblasted and roughened tips allow controlled polishing of posterior capsule, scraping and aspiration of lens epithelial cells from the capsular bag



Simcoe
Capsule Polisher & Cortex Extractor
 23GA/0.6 mm curved tube,
 sandblasted tip, top port
E20-141 13 mm
E20-142 21 mm



Jensen-(Lu)
Posterior Capsule Polisher
 23GA/0.6 x 25 mm curved tube,
 roughened olive tip with front port
E20-145 reusable
124-23 disposable



Capsule Polisher
 25 mm tube, angled 10 mm,
 roughened olive tip, front port
126-23 23GA/0.6 mm
126-25 25GA/0.5 mm

disposable cannulae, sterile, 10 per box

GAUGE CONVERSION CHART AND ISO 6009 COLOUR CODING



Natural (Clear)
30GA/0.30 mm, ID 0.15 mm
(not ISO colour coded)

Grey
27GA/0.40 mm, ID 0.20 mm

Brown
26GA/0.45 mm, ID 0.25 mm

Orange
25GA/0.50 mm, ID 0.25 mm

Purple
24GA/0.55 mm, ID 0.30 mm

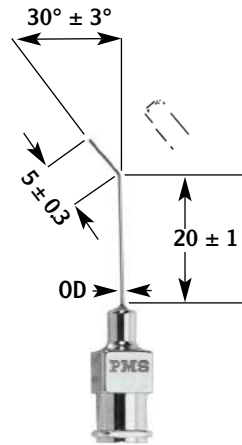
Blue
23GA/0.60 mm, ID 0.33 mm

Black
22GA/0.70 mm, ID 0.41 mm

Green
21GA/0.80 mm, ID 0.51 mm

Yellow
20GA/0.90 mm, ID 0.60 mm

Cream
19GA/1.10 mm, ID 0.70 mm



Rycroft
Air Injection Cannulae
E20-030 30GA/0.30 mm
E20-027 27GA/0.40 mm

CATARACT INSTRUMENTS



CATARACT (ECCE) SET

CATARACT INSTRUMENTS



E40-011



E25-200



E30-460



E30-623



E20-300

E40-011 Barraquer Speculum, page 54

E20-001 Bishop-Harmon Irrigator, page 72

E40-554 Castroviejo Eye Caliper, page 57

E35-010 Blade Breaker and Holder, page 18

E35-001 Razor Blade (box of 10), page 18

E25-050 Castroviejo Scissors, page 141

E25-051 Castroviejo Scissors, page 141

E25-200 Barraquer Iris Scissors, page 22

E25-315 Westcott Stitch Scissors, page 22

E25-334 Westcott Tenotomy Scissors, page 22

E25-440 Ong Capsulotomy Scissors, page 78

E30-051 Barraquer Corneal Forceps, page 23

E30-106 Bishop-Harmon Forceps, page 23

E30-431 Castroviejo Suture Forceps, page 24

E30-460 McPherson Tying Forceps, page 24

E30-463 Kelman-McPherson Forceps, page 124

E30-581+ Utrata Capsulorhexis Forceps, page 76

E30-623 Blaydes Lens Forceps, page 124

E15-553 Sinsky IOL Manipulator, page 21

E15-565 Kuglen Hook/Manipulator, page 21

E40-662 Barraquer Iris Repositor, page 80

E20-020ST Lewicky A/C Maintainer, page 72

E20-030 Air Injection Cannula, page 73

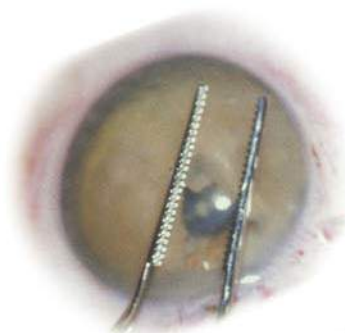
E20-231 Sheets Irrigating Vectis, page 81

E20-300 Simcoe I/A Cannula, page 82

E20-145 Jensen Capsule Polisher, page 84

E35-132 Castroviejo Needle Holder, page 25

E35-231 Micro Needle Holder, page 25



E30-567

FOR MANUAL PHACO FRACTURE ADD

- E15-432T Nucleus Trisector, angled, page 100
- E15-442T Nucleus Cutting Platform, page 100
- E30-562T Nucleus Splitter Forceps, page 101
- E30-567** Nucleus Fragment Forceps, page 101

FOR STERILE FIELD PREPARATION ADD

- E25-556** Knapp Utility Scissors, page 16
- E30-934** Dieffenbach Serrefine, page 16
- E30-902 Halstead Artery Forceps, page 16
- E30-965 Baby Jones Towel Clamp, page 16



E25-556



E30-934

FOR FLUID DISTRIBUTION ADD

- E20-805 All Glass Syringe, page 20
- 300-03SP** Disposable Syringe, page 89
- E20-880 Irrigating Handpiece, page 83
- E20-881 Aspirating Handpiece, page 83



300-03SP

MISCELLANEOUS PRODUCTS ADD

- 30601 Eye Spears, page 27
- E45-113** Sterilising Tray
(see section)



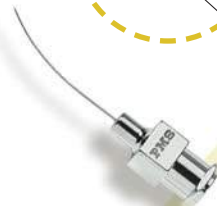
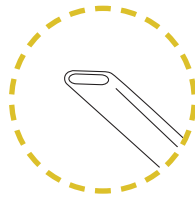
E45-113

CATARACT INSTRUMENTS



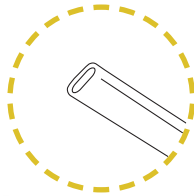
PHACO CHOICES - HYDRODISSECTION CANNULAE

CATARACT INSTRUMENTS



Helsinki
Nucleus Hydrodissector
27GA/0.4 x 20 mm tube
with horizontal flattened tip

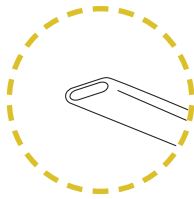
E20-201 reusable
118-27 disposable



Sautter
Nucleus Hydrodissector
27GA/0.4 x 20 mm tube
with vertical flattened tip

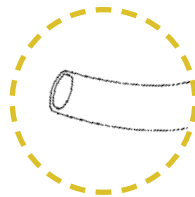
E20-203 reusable
118-27S disposable

Flattened tip cannulae allow for smooth insertion beneath the capsulorhexis edge. Fluid is distributed in a fan-like effect all around the capsular bag for effective hydrodissection.



Pearce
Nucleus Hydrodissector
25GA/0.5 x 20 mm tube,
angled 7 mm flattened tip

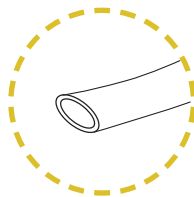
E20-205



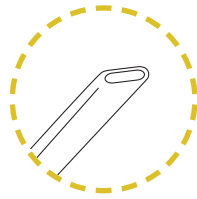
Kellan
Hydrodissection/Hydrolineation Cannula
25GA/0.5 x 20 mm curved tube

E20-211 flattened blunt tip
for hydrodissection

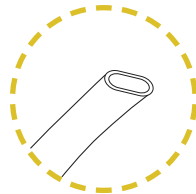
E20-213 bevelled blunt tip
for hydrolineation



disposable cannulae, sterile, 10 per box



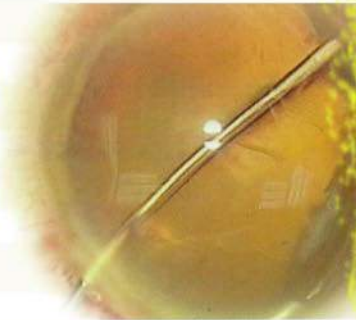
Hydrodissection Cannula
25 mm tube, angled 7 mm flat tip
113-25 25GA/0.5 mm
113-27 27GA/0.4 mm



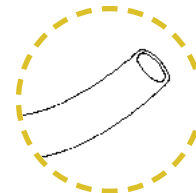
Nichamin
Nucleus Hydrodissector
25 mm tube, formed 12 mm flat tip
113-25F-12 25GA/0.5 mm
113-27F-12 27GA/0.4 mm



BSS or viscoelastic material is injected slowly and continuously until the "wave" of dissection is visible on the posterior capsule. Injection of the mentioned solutions are continued until luxation of the nucleus begins.



Tübingen
Hydrodissection Cannula
25 mm tube, curved round tip
313-27 27GA/0.4 mm
313-30 30GA/0.3 mm



Disposable Syringe
Luer-Lock cone sterile (box of 10)
300-03SP 3 ml
300-05SP 5 ml



disposable syringe provides smooth control of hydrodissection (supplied without cannula)

disposable cannulae, sterile, 10 per box



super instruments to achieve excellent fixation of the globe during construction of the Paracentesis, Phaco Incision, AK Incision, Limbal Relaxing Incision and during Lens Implantation



Fyodorov
Phaco Fixation Ring
3/4 open swivel ring, with atraumatic concentric rings, 11.5 mm ID, 13.0 cm

E10-511T

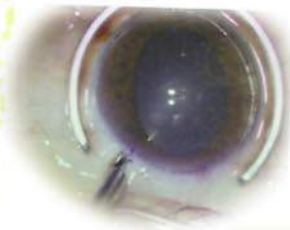
for atraumatic fixation of the eye during phaco



Fine-Thornton
Phaco Fixation Ring
3/4 open swivel ring, with multiple blunt teeth, 13.0 cm

E10-513 13 mm ID
for clear cornea incision

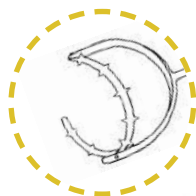
E10-516 16 mm ID
for scleral tunnel incision



Fine-Thornton
Phaco Fixation Ring
3/4 open swivel ring, multiple, blunt teeth

E10-513T 13 mm ID
for clear cornea incision

E10-516T 16 mm ID
for scleral tunnel incision



Gimbel
LASIK Stabilising Ring, 3/4 open swivel ring, blunt teeth on both sides, 13 mm ID, 13.0 cm

E10-517

for stabilizing either the right or the left eye during LASIK



PHACO CHOICES - EYE SPECULAE

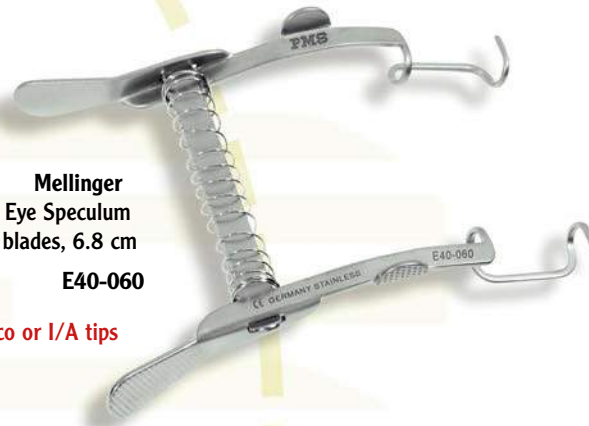


Mellinger
Universal Eye Speculum
self-retaining, fenestrated blades
E40-056 adult size, 6.8 cm
E40-057 child size, 5.5 cm



Mellinger
Phaco Eye Speculum
self-retaining, open blades, 6.8 cm
E40-060

for use with Phaco or I/A tips



these speculae provide unobstructed access to the globe during phaco and other eye surgical procedures

Kershner Style
Reversible Eye Speculum
fenestrated blades, 7.7 cm
E40-106



can be used either on the nasal or temporal side

Kershner Style
Reversible Eye Speculum
thin solid blades, 7.7 cm
E40-105



CATARACT INSTRUMENTS



New

PHACO CHOICES - DIAMOND KNIVES

CATARACT INSTRUMENTS

EZCut[®]

Diamond Phaco Knives
lancet shaped 60° blade
(double edge)

E10-322 2.8 mm

E10-323 3.0 mm

E10-324 3.2 mm



for Clear Corneal and Scleral Incisions

Angled diamond knives in new titanium handle,
spring action bayonet style.

EZCut[®]

Diamond Clear Cornea Knives
keratome shaped 60° blade
(4 cutting edges)

E10-342 2.8 mm

E10-343 3.0 mm

E10-344 3.2 mm



EZCut[®]

Diamond Trapezoid Knives
taped spear shaped blade
(double lancet)

E10-352 2.0-2.3 mm

E10-353 2.6-3.0 mm

E10-354 2.8-3.2 mm

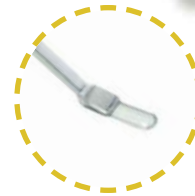


EZCut[®]

Diamond Tunnel Knives
crescent shaped (9 facet) blade

E10-391 1.5 mm

E10-392 2.0 mm



Individual Designs and Special Mountings on Request.

PHACO CHOICES - SAPPHIRE KNIVES

PMO



New

**EXCELLENT BACK UP for
expensive diamond knives**



blade shapes	width in mm	removable holder with sapphire blade
	2.8	E10-2222
	3.0	E10-223
	3.2	E10-224
	2.8	E10-242
	3.0	E10-243
	3.2	E10-244
	2.5/2.9	E10-252
	2.5/3.2	E10-253
	2.5/3.4	E10-254
	1.5	E10-291
	2.0	E10-292
	2.8	E10-293

Sapphire blade is fully mounted in a stainless steel shaft with thread



Coloured handles for above sapphire blades are shown on page 66. When ordering, specify desired handle and blade.



**EZWash®
Sterilising Tray
E45-113**

**excellent for safe positioning
of sapphire and diamond knives**

CATARACT INSTRUMENTS



we have shown all Nucleus Manipulators, Phaco Choppers/Splitters and Spatulae in this catalogue on ...



...stainless steel handles with stainless steel tips

...titanium handles with stainless steel tips

New

and now PMS offers ...

... colour coded ALL-aluminium handles for a series of EZChange® removable instrument tips from the most popular sideport instruments for Phaco Surgery



FEATURES AT A GLANCE:

- Lightweight, aluminium handle, 9.0 cm
- Optimal round handle for optimal balance and perfect control
- Colour coded for easy identification
- Handles and tips are sold separately
- Available in five colours:

Product code for handles only

- E15-100 AY yellow
- E15-100 AR red
- E15-100 AG green
- E15-100 AB blue
- E15-100 AP purple



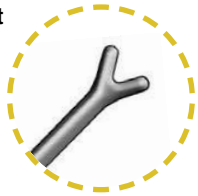
Do not use acid or alkali detergents or any kind of abrasives for cleaning the aluminium handle. Never use balanced salt solution for rinsing.



**Fukasaku
Phaco Splitter and Iris Pusher
E15-653R**



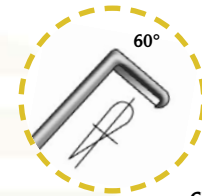
**Rosen
Phaco Splitter
E15-655R**



**Jaffe-Bechert
Nucleus Rotator
E15-423R**

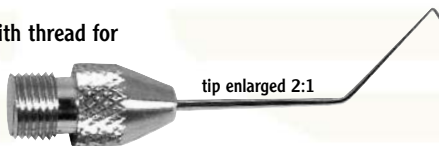


**Drysdale
Nucleus Manipulator
E15-465R**

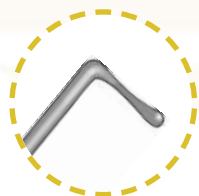


**Nagahara
Phaco
Chopper
E15-656R 60° cutting edge
E15-659R 90° cutting edge**

instrument tip with thread for absolute secure locking; shaft and tips are from one-piece stainless steel



**Koch
Phaco
Chopper
E15-657R**



**Chang
Nucleus Manipulator
E15-464R**



**Seibel
Phaco Chopper
E15-669R**



**Barrett
Nucleus Rotator/
Manipulator
E15-466R**



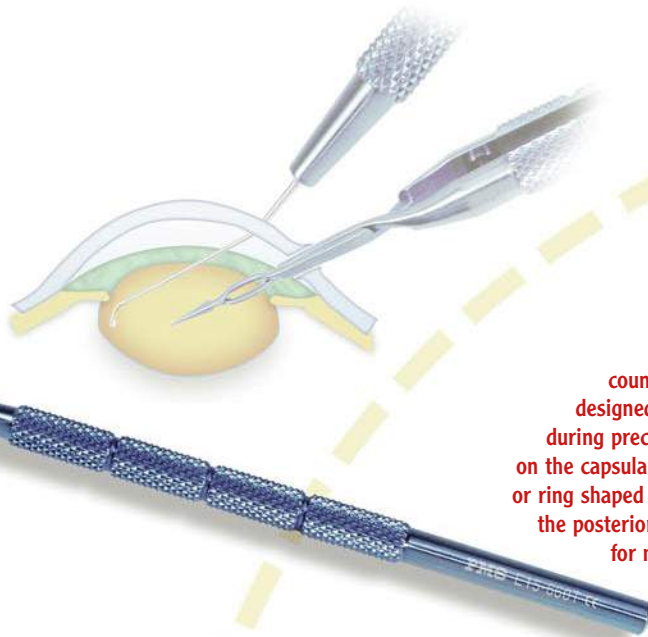
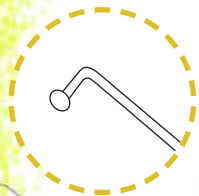
**"Connor Wand"
Nucleus Manipulator
E15-467R**

for detailed product description, please see page 34, 36 and 80



PHACO CHOICES - AKAHOSHI STYLE NUCLEUS SUSTAINERS

CATARACT INSTRUMENTS



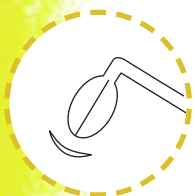
Nucleus Sustainers are ideal to use with the Akahoshi Style Prechopper series for the counter prechop technique. They are designed to support the harder nucleus during prechopping. This will reduce stress on the capsular bag and zonules. The ball-like or ring shaped tips offer optimal protection of the posterior capsule, and can also be used for manipulating the iris, nucleus and IOL's, etc.

Nucleus Sustainer

0.4 mm microball tip, angled 1.5 mm, 12.0 cm

E15-660T

helps to reduce the stress on the capsular bag and zonules

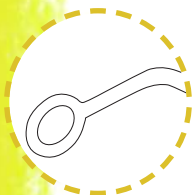


Nucleus Sustainer

olive tip, angled 1.9 mm, 12.0 cm

E15-661T

for stable nuclear support during prechopping



Nucleus Sustainer

1.0 mm dia ring, angled 2.5 mm, 12.0 cm

E15-662T

for maximum protection of the posterior capsule

NOTE: Stainless steel shafts and tips



Nucleus Splitter/Completer

1.5 mm dia. ring shaped jaws, 12.2 cm

E30-572T

the latest development, suitable for all prechopping techniques

PHACO CHOICES - AKAHOSHI STYLE PRECHOPPERS



CATARACT INSTRUMENTS

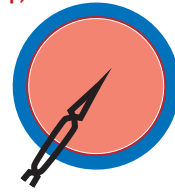
schematic representation of the Akahoshi Style (vertical prechop) technique fig. 1 to 4

Prechopper
 Forceps are designed to crack the nucleus into four or more fragments in the capsular bag. The shanks of the forceps open to a maximum of 1.8 mm at the incision area while the tips open to 2.8 mm. The tip of the forceps has a sharp point that initially penetrates the nucleus. When squeezing the round body handle the tips open to crack and split the nucleus. Ultrasound time can be reduced by 50 %.

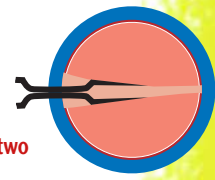
Universal Prechopper
 paddle style jaws,
 sharp tips, 12.2 cm
E30-564T straight
E30-565T angled
 for medium to hard nucleus



1. Penetrate nucleus



2. Split nucleus in two



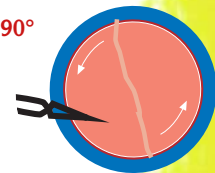
Sharp Prechopper
 triangular style jaws,
 sharp pointed tips, 12.2 cm

E30-566T straight
E30-567T angled



for hard nucleus, sharp pointed tips are used to insert into the dense nucleus, and performing initial prechopping

3. Rotate each half 90°



Karate Prechopper
 paddle style TC jaws,
 angular sharp edge on top,
 blunt edge on the bottom, 12.2 cm

E30-568T

for vertical prechop of soft to medium nucleus

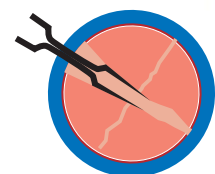


Hybrid Prechopper
 hooked jaws with
 sharp angular edge,
 12.2 cm

E30-569T

for initial split and prechopping nucleus (grades 1-4)

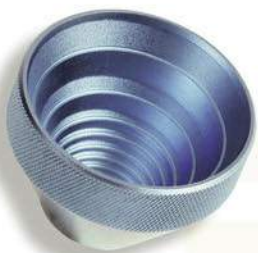
4. Split the halves into quarters



Tip drawings of forceps are shown on page 38 and 39



E40-100



E10-690T



E25-435



E30-581+



E30-661

E42-113 CATARACT PHACO SET
complete, consisting of one each:

E20-001 Bishop-Harmon Irrigator, page 72

E40-100 Lieberman Eye Speculum, page 55

E10-513 Phaco 3/4 Fixation Ring, page 56

E10-690T Maloney Keratometer, page 33

E40-554 Castroviejo Eye Caliper, page 57

E10-123 Sapphire Phaco Knife, page 64

E10-113 Sapphire Universal Knife, page 65

E25-333 Westcott Tenotomy Scissors, page 59

E25-400 Vannas Capsulotomy Scissors, page 78

E25-435 Stern-Gills Capsulotomy Scissors, page 79

E30-051 Barraquer Colibri Forceps, page 23

E30-110 Delicate Dressing Forceps, page 23

E30-431 Castroviejo Suture Forceps, page 24

E30-463 Kelman-McPherson Forceps, page 122

E30-581+ Utrata Capsulorhexis Forceps, page 76

E30-661 Livernois Soft IOL Folder, page 123

E30-663 Ernest-McDonald IOL Inserter, page 125

E15-423 Jaffe-Bechert Nucleus Rotator, page 21

E15-501 Lester Lens Pusher, angled, page 21

E15-565 Kuglen Hook/Manipulator, page 21

E15-656 Nagahara Phaco Chopper, page 21

E20-030 Air Injection Cannula, page 73

E20-151 Simcoe Cortex Extractor, page 83

E20-205 Pearce Hydrodissector, page 88

E20-300 Simcoe I/A Cannula, page 82

E35-231 Barraquer Needle Holder, page 25



E20-441

FOR BIMANUAL CORTICAL CLEAN UP

E20-441 Irrigating Handpiece, page 112

E20-452 Aspirating Handpiece, page 113

FOR COUNTER PRECHOPPING TECHNIQUE

E15-662T Akahoshi Nucleus Sustainer, page 96

E30-566T Akahoshi Sharp Prechopper, page 97

FOR MICRO INCISION CATARACT SURGERY

E10-170 Sapphire Micro Incision Knife, page 120

E25-623S Alio Micro Incision Scissors, page 121

E30-623S Micro Capsulorhexis Forceps, page 121

FOR FOLDABLE LENS IMPLANTATION

LP604240M Viscoject® Cartridge, page 126

E30-651 EZJect® Lens Injector, page 126

FOR SMALL PUPIL MANAGEMENT

E15-573 Pupil Dilator, page 106

IRIS-1000 Iris Retractor, page 107

MISCELLANEOUS PRODUCTS

30601 Eye Spears, page 27

Sterilising Trays (see section)

E30-566T

E30-623S

E30-651

E15-573

30601

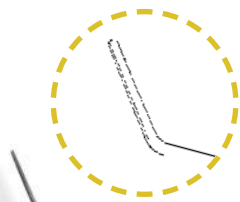
CATARACT INSTRUMENTS



PHACO CHOICES - MANUAL FRACTURE INSTRUMENTS

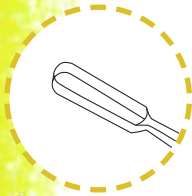
CATARACT INSTRUMENTS

The **KANSAS-ALFONSO** instruments for manual phaco fracture techniques offer several important benefits.



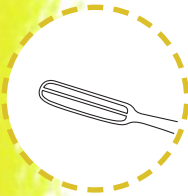
Kansas-Alfonso
Nucleus Bisector
angled 10 mm blade,
sharp cutting edge on
the vertical plane,
11.0 cm
E15-431T

used to split the nucleus in two parts



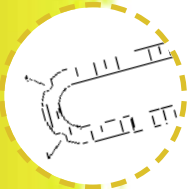
Kansas-Alfonso
Universal Nucleus Trisector
angled semicircular blade with
sharp cutting edges, 11.0 cm
E15-432T 1.5 mm wide
E15-433T 2.5 mm wide

used to divide the nucleus in three parts



Kansas-Alfonso
Universal Cutting Platform
angled 10 mm solid blade, 11.0 cm
E15-442T 2 mm wide
for use with E15-432T
E15-443T 3 mm wide
for use with E15-433T

used to slide under the nucleus and act as a cutting platform for Bisector and Trisector

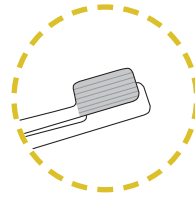


Alfonso-Hoffmann
Irrigating Nucleus Fragment Cannula
25GA/0.5 mm loop with fine
serrations, two front ports
E20-242 2 mm wide
E20-243 3 mm wide

ideal to remove nuclear fragments

McIntyre
Irrigating Handpiece, titanium,
male/female Luer fittings
E20-882T

- It can be performed through a small incision, thereby resulting in minimum astigmatism and rapid recovery.
- It functions well with hard and soft nucleus.
- It requires low investment in instrumentation.
- It provides a very good backup when complications arise and Phacoemulsification must be discontinued.
- Also important, it requires no sutures and stitches.

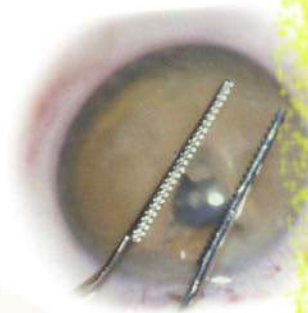


Salz
Nucleus Cracking Forceps
cross-action shanks with finely
serrated paddle style tips, 7.5 cm

E30-562T 1.1 x 2.5 mm tips

E30-563T 1.7 x 2.8 mm tips

used to crack the nucleus through
an incision size as small as 2.5 mm



Kansas
Nucleus Removal Forceps
angled 10 mm jaws with extra delicate
multiple teeth, 10.5 cm

E30-567TK titanium

E30-567 stainless steel

used to remove nuclear
fragments and large cortical debris



Alfonso
Nucleus Fragment Forceps
angled 10 mm jaws, 2 short rows
of delicate interlocking teeth,
10.5 cm

E30-567TA

used to extract nuclear fragments

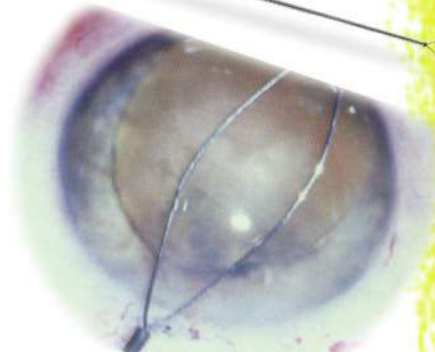
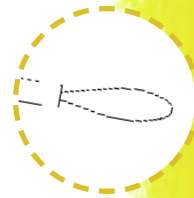


Keener
Lens Nucleus Divider
with set of snare wire

E15-450

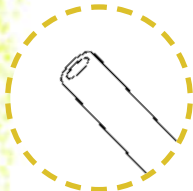
E15-452 replacement
snare wire (set of 2)

used to divide the nucleus
in two or more segments





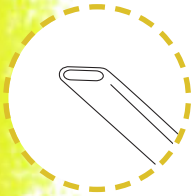
A combination of the E20-020ST Lewicky Chamber Maintainer and E20-152 Simcoe Cortex Aspirating Cannula can be used to remove the anterior cortex and epinucleus through a side port incision at 11 and 2 o'clock.



A E20-055 cannula is used to inject viscoelastic, which is mandatory in MIC surgery to protect the endothelium from being touched by the relatively large nuclear fragments.



E20-033 and E20-034 Rainin Irrigating Cannulae are ideal to create a separation plane between the nucleus and the posterior cortical position of the lens.



After hydrodissection, the anterior pole of the nucleus is partially prolapsed into the anterior chamber using a E15-565 Kuglen Hook.



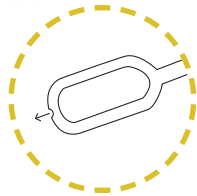
Irrigating Vectis
27GA/0.4 mm x 30 mm tube,
3 mm wide loop with 0.3 mm port,
single use, sterile (box of 10)
140-27-1



designed for small incision surgery;
ideal to remove nuclear fragments



Cortex Aspirating Cannulae
26GA/0.45 mm x 20 mm tube,
angled 5 mm J-shaped tip, front port



E20-064 straight

E20-065 angled left

E20-066 angled right

ideal for retracting the iris, and
aspirate the cortex between
10 and 2 o'clock

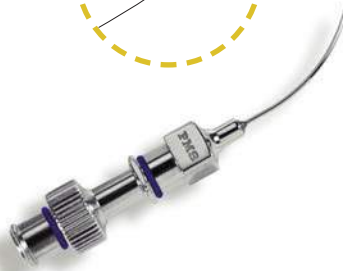


You can also use other surgical techniques and instrumentation.



EZFit®
 Irrigation Cannula with
 female/male LL connector and
 21GA/0.8 x 21mm curved tube,
 smooth tip, dual 0.4 mm side ports
E20-431EF

cannulae and connectors have coloured rings:
BLUE stands for irrigation - **RED** for aspiration



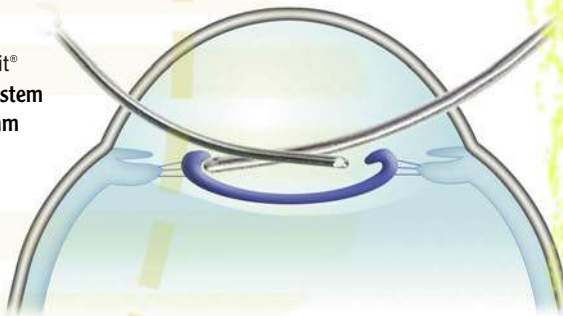
EZFit®
 Cortex Aspiring Cannula with male/male Luer connector
 21GA/0.8x21mm curved tube with 0.4 mm top open port
E20-432EF smooth tip
E20-433EF rough tip

21GA/0.8 curved tip facilitates cortex clean up; when used with
 irrigating handpiece, complete 360° removal of cortex is possible



EZFit®
 Bimanual I/A Cortex Removal System
 consisting of 1 piece each 21GA/0.8 mm
 Irrigating cannula, dual 0.4 mm side ports,
 Aspiring cannula, single 0.4 mm top port
E20-434EF system with smooth aspirating tip
E20-435EF system with rough aspirating tip

can be attached to an I.V. Line, on a syringe or on an
 irrigation handpiece while maintaining the chamber



Bimanual I/A Cortex Removal System
***192-23** IRRIGATION 21GA x 1" (25mm)
 TWO .4mm PORTS WITH FEMALE CONNECTOR



ASPIRATION 23GA x 1" (25mm)
 ONE .4mm PORT .5mm FROM TIP
 WITH MALE CONNECTOR

MALE AND FEMALE CONNECTORS ARE COMPATIBLE WITH I/A AND PHACO SYSTEMS. ALLOWS CORTEX
 REMOVAL THROUGH PARACENTESIS OR PHACO INCISION WHILE MAINTAINING THE CHAMBER WITH IRRIGATION.

*  Manufacturer:
 EAGLE LABS
 Rancho Cucamonga,
 California, USA

*disposable products, sterile, 10 per box

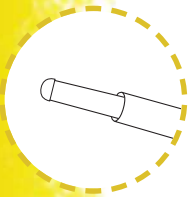


side view of the micro punch head

for Viscocanalostomy,
Canaloplasty and other
Trabeculectomy procedures

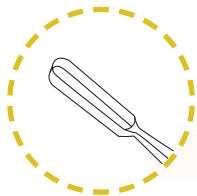
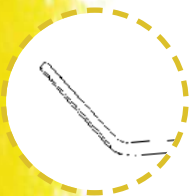
EZCut®
Micro Membrane Punch
titanium "direct action" handle,
19GA/1.1 x 15 mm straight shaft,
micro 0.75 mm dia. head with
0.5 mm deep bite, 13.0 cm
E40-994T

for primary trabeculectomy without iridectomy; best to
use after phaco having filled the chamber with viscoelastic



EZCut®
Kelly Decemet's Membrane Punch
micro 1.1 mm dia. head with
0.75 mm deep bite, 13.0 cm
E40-992T titanium handle
E40-992 all stainless steel

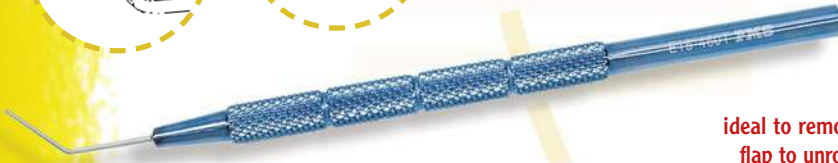
for easy insertion through small incisions



USC Scleral Shaver
angled 10 mm sharp blade, single cutting edge, 11.0 cm
E15-221T

USC Scleral Planer
angled 10 x 1 mm wide blade,
dual cutting edges, 11.0 cm
E15-222T

ideal to remove layers of sclera on the base of the second
flap to unroof Schlemm's Canal in a non-invasive manner



Nishi Style
Schlemm's Canal Scissors
removable tip, 20GA/0.9 x 25mm curved tube,
thin curved blades, 14.5 cm
E25-621N

for cutting scleral tissue
adhering to Schlemm's canal





dual function,
retracts and lifts lids without pressure on the globe

Schott Lid Speculum

E40-001 fenestrated
E40-003 solid blades

Diamond 7-Step Knife

retractable, tapered spear shaped blade (1 mm wide), steps:
0.15, 0.2, 0.25, 0.37, 0.4, 0.5 and 4.0 mm fully extended

E10-367

to create the initial and second flap of the USC procedure
when the micrometer is set at 0.3 mm

Luntz-Dodick Punch

bullet shaped head for easy entry into the scleral tunnel,
rotatable tip can be preset to cut in one of four directions

E40-995 all stainless steel

E40-995T on titanium handle

Retrograde cutting edge is ideal to engage the scleral lip at the
base of the tunnel and cuts 0.5 mm bites of tissue for small and
large trabeculectomies.



image of punch head
in cutting position



E42-114 PHACO-TRABECULECTOMY SET

Consisting of E40-001, E10-367, E40-995
and one each of the following instruments:

E40-554 Castroviejo Eye Caliper, page 57

E25-200 Barraquer Iris Scissors, page 22

E25-333 Westcott Tenotomy Scissors, page 59

E30-051 Barraquer Colibri Forceps, page 23

E30-241T Fechtner Conjunctiva Forceps, page 60

E35-251T Barraquer Micro Needle Holder, page 46

EG-1020 Phaco Slit Knife (Sub 2.0 mm), page 63

EG-9402 Crescent Style Tunnel Knife, page 63

30601 Sugi® Disposable Eye Spears, page 27

14-5006 Intraocular Cautery Pencil, see VR section

14-5004 Cautery Pencil, see MVR section

E45-321 EZLoad® Sterilisation Container

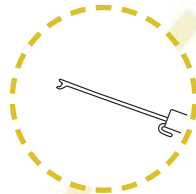
E45-111 EZWash® Sterilising Tray



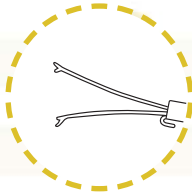
*Beehler Style
Small Pupil
Dilators*



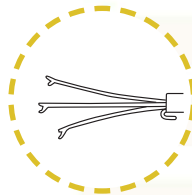
for micro incision
20GA/0.9 mm straight tube,
1 finger for 2 points dilation
E15-571



for small incision
18GA/1.2 mm straight tube
2 fingers for 3 points dilation
E15-572



for 3 mm incision
16GA/1.6 mm curved tube,
3 fingers for 4 points dilation
E15-573

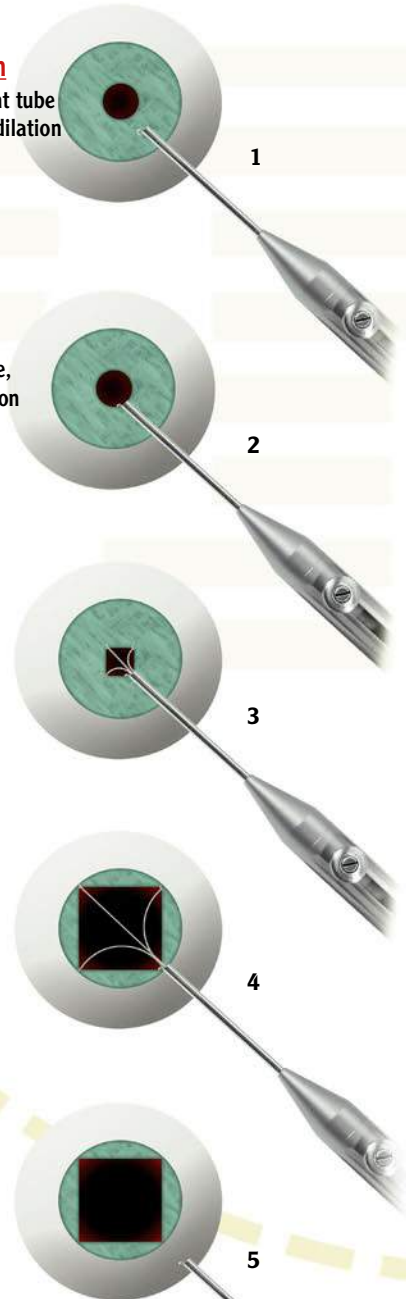


NOTE:
This instrument is ineffective on an eye which has not been properly medicated preoperatively.

The Beehler Style Pupil Dilators enlarge small pupils to 6-7 mm without additional incision:

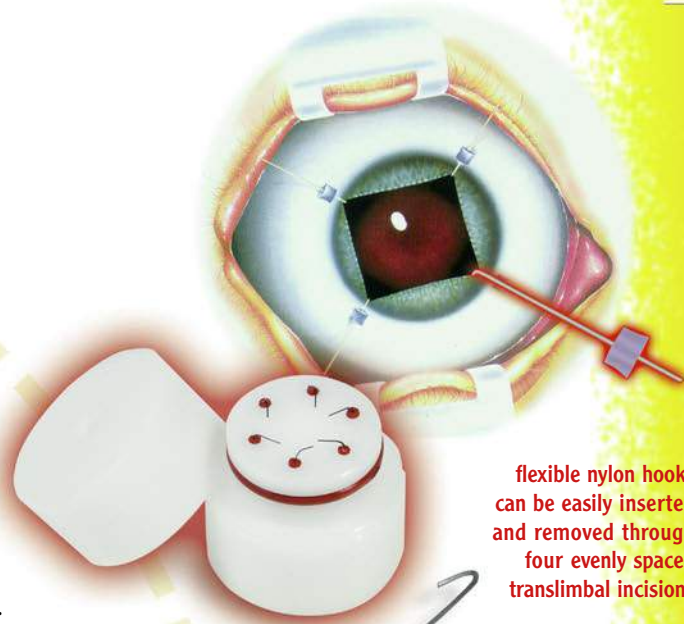
1. Tubular shaft fits easily through a side port or standard phaco incision.
2. After entering, the instrument is turned 90° and the external micro hook is engaging the 12 o'clock pupil margin.
3. A simple -thumb controlled- activation of three microfingers results in a 4 points symmetrical and simultaneous dilatation.
4. The pupil is gently dilated to the limbus.
5. The tip is then removed, leaving a widely dilated pupil for the remainder of the case.

Not only is the instrument easy to use, but it's atraumatic pupil dilatation eliminates the need for costly and time consuming disposable iris retractors.





**IrisMate®
Translimbal Iris
Retractors**



- *IRIS-1000 reusable (6 pcs) in autoclavable case
- **IRIS-2000 disposable (5 pcs) in plastic tray

- Ideal for temporary iris dilation.
- Safely used in Aphakic, Pseudophakic and Phakic eyes.
- Works through 0.3 mm - 0.5 mm self sealing incision.
- Specially designed silicone cinch provides superior grip.
- Nylon hook retracts iris with minimal damage to the tissue.
- Cinch is colour coded for easier viewing under microscope.

flexible nylon hooks
can be easily inserted
and removed through
four evenly spaced
translimbal incisions

all **MEDICAL GRADE** materials

* **Manufacturer:**
Howard Instruments, Inc.
Tuscaloosa, AL
USA

** **Manufacturer:**
Biotech Vision Care Ltd.
Khatraj, Gandhinagar
India

Video available

**Iridectomy
Instruments for**

MICS work well for the removal of fibrotic
synechia and the creation of micro cuts in the iris



EZChange®
Zaldivar Style Iridectomy Scissors
removable tip, 20GA/0.9 x 30 mm straight shaft,
curved 2.0 mm sharp blades, 15.0 cm
E25-620Z

EZChange®
Utrata Style
Micro Iridectomy Forceps
removable tip, 20GA/0.9 x 30 mm
curved shaft, fine grasping tips with
0.5 mm platforms, 15.0 cm
E30-621U



CATARACT INSTRUMENTS



PHACO CHOICES - POSTERIOR CAPSULE RUPTURE

Posterior capsular rupture is a common intraoperative complication that can arise at any stage of phaco surgery. Despite advanced equipment and technology, it is difficult to prevent. With the PMS Emergency Kit #E42-115 you can easily convert to an ECCE and perform a vitrectomy.

CATARACT INSTRUMENTS

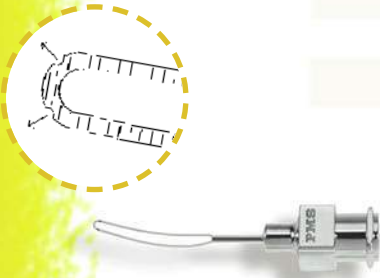


Gross Sub-Tenon Cannula
21GA/0.8 mm gently curved tube, flattened tip
E20-687

for injection of local anesthesia agent

Infusion Cannula
23GA/0.65 mm angled tip attached to silicone tubing with LL adaptor
E20-023AT

to maintain a stable anterior chamber



Irrigating Lens Loop
25GA/0.5 mm x 3 mm wide loop with fine serrations, two front opening ports
E20-242

ideal to remove nuclear fragments



Bimanual Irrigation Handpiece
21GA/0.8 mm x 17 mm cannula, smooth tip, two 0.5 mm side ports
E20-441

for bimanual cortical clean up



Bimanual Aspiration Handpiece
21GA/0.8 mm x 17 mm cannula, rough tip, single 0.3 mm top port
E20-452



Castroviejo Universal Corneal Scissors
curved blunt blades, 10.0 cm
E25-013

for enlarging phaco incision



You can also use other surgical techniques and instrumentation.

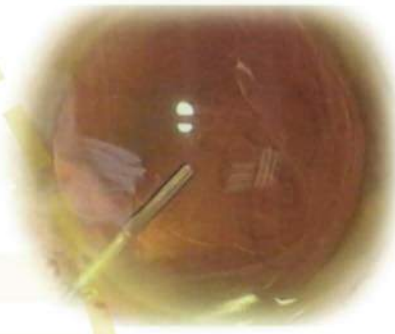
Capsular Rupture

If a capsular tear does occur several steps can help minimize vitreous loss.



Viscoelastic Injection

A closed chamber system should be maintained by injecting viscoelastic before withdrawing the phaco tip. This helps to tamponade the vitreous backwards.



Cortical Removal

Cortical removal should then be performed with either low infusion or by a dry technique filling the chamber with viscoelastic fluids using conventional cannulae (Simcoe Aspirator E20-151).



Bimanual Vitrectomy

If the hyaloid face is broken and vitreous presents through the rupture a routine 2-port mechanised vitrectomy using low flow and low vacuum rates is performed. The tear can then be easily converted into a round and stable opening.



IOL Implantation

The IOL can then be safely placed into the bag. A 6 mm optic acrylic lens should be used when implanting in the capsular bag as it unfolds slowly, thus causing less stress on the posterior capsule.



You can also use other surgical techniques and instrumentation.



The PMS EZLock® I/A Tip System

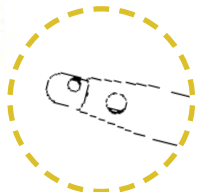
for easy and effective cortex removal

CATARACT INSTRUMENTS



EZLock®
I/A Handpiece
ergonomically handle with
male/female Luer slip fittings,
compatible with all I/A and phaco systems

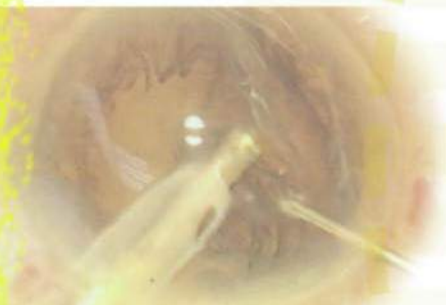
E20-400EL



EZLock®
I/A Tip straight

E20-401EL 0.35 mm port for standard aspiration procedures

E20-402EL 0.5 mm port for removal of viscoelastic substances



aspiration of epinucleus with E20-403S I/A tip

EZLock®
Aspirating Tips without
silicone irrigation sleeve

E20-403ELS straight

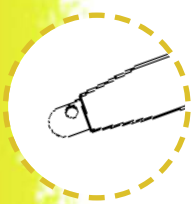
E20-403ELA angled 45°

provides tight seal around wound
and anterior chamber stability



EZLock®
Silicone Irrigation Sleeve
non-sterile (pack of 5)

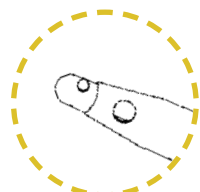
E20-403ELI



EZLock®
I/A Tip curved

E20-404EL

for initial
cortex removal



MONOMANUAL INTERCHANGEABLE I/A TIP SYSTEM...



...makes the monomanual technique convenient and effective.

EZLock® mechanism allows quick exchange of the various tips and guarantees safe positioning during surgery.

PMS **EZLock®**

removable I/A tips have 16GA (1.6 mm OD) irrigation tube with 0.9 mm dual side ports and 21GA (0.8 mm OD) inner cannula with 0.35 mm aspirating port. Other sizes also available on request.

EZLock®
I/A Tip angled 45°

E20-405EL

for peripheral cortex removal



removal of peripheral cortex



EZLock®
I/A Tip angled 90°

E20-406EL

for peripheral and superior cortex removal



O-Ring Replacement Set
for **EZLock®** I/A tips
5 each rings 2x1, 3x1
and 5x1 mm, (pkg/15)

E20-410



EZFit®
Luer-Lock Adaptor
female/male fittings

E20-420EF



EZFit®
Luer Adaptor
2 x male fittings

E20-421EF reusable

191-01 disposable (box of 50)



adaptors to fit any conventional
cannulae (reusable and disposable)

male and female connectors are
compatible with I/A and
phaco systems

EZFit®
Luer-Lock Adaptor
2 x female connectors

E20-422EF

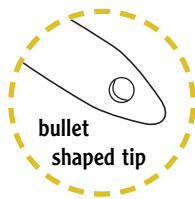


CATARACT INSTRUMENTS

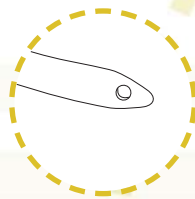


BIMANUAL ORIGINAL I/A SYSTEM

IRRIGATION

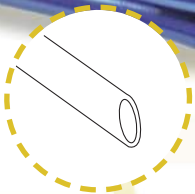
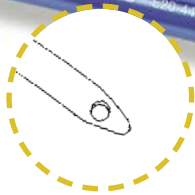


“For effective cortex management”. This system is used by many phaco surgeons for bimanual irrigation and aspiration of residual cortex after phaco and removal of the nucleus.



EZFlo®
Irrigation Handpiece
21GA/0.8 x 17 mm round cannula,
dual 0.5 mm side open ports
E20-441 smooth tip
E20-442 rough tip

bullet shaped tip for easy entry through 1.2 mm paracentesis



EZFlo®
Irrigation Handpiece
20GA/0.9 x 17 mm round cannula
E20-446 0.6 mm front port
E20-447 dual 0.65 mm side ports

20GA cannulae with large ports for maximum irrigation



EZFlo®
Irrigation Handpiece
0.55 x 0.95 x 17 mm elliptical cannula,
smooth tip with 0.55 mm anterior port
E20-445

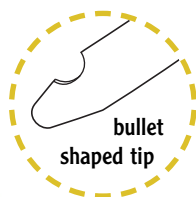
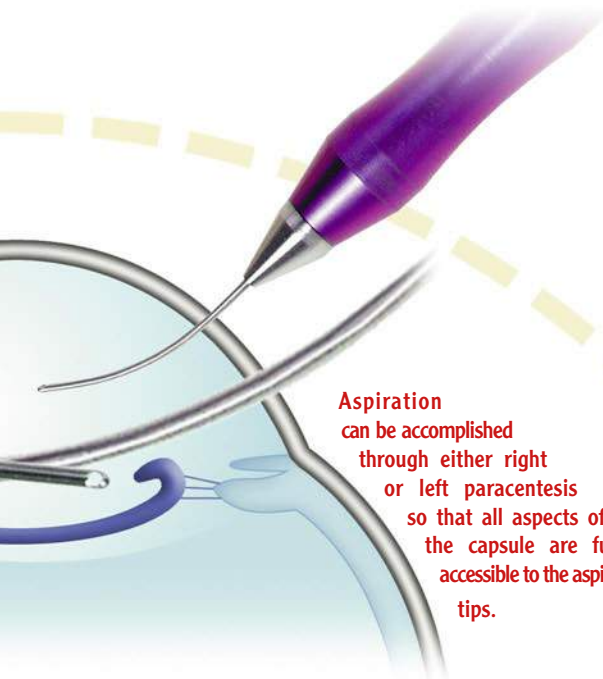
oval, smooth tip for improved wound seal



EZFlo®
Irrigation Handpiece
male/female Luer fittings
E20-440

for standard reusable and disposable cannulae

CATARACT INSTRUMENTS



Aspiration can be accomplished through either right or left paracentesis so that all aspects of the capsule are fully accessible to the aspirating tips.

ASPIRATION

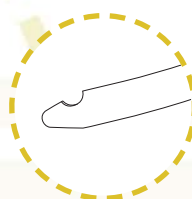
EZFlo®

Aspiration Handpiece
21GA/0.8 x 17 mm round cannula
0.3 mm top open port

E20-451 smooth tip

E20-452 rough tip

for standard aspiration procedures



EZFlo®

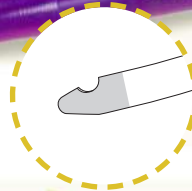
Aspiration Handpiece

21GA/0.8 x 17 mm round cannula,
0.4 mm top open port

E20-453 smooth tip

E20-454 rough tip

for aspiration and capsule polishing



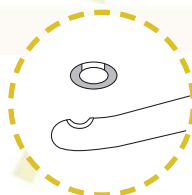
EZFlo®

Aspiration Handpiece

0.55 x 0.95 x 17 mm elliptical cannula,
smooth tip, 0.3 mm top open port

E20-455

for easy glide through side port incision



EZFlo®

Aspiration Handpiece
male/male Luer fittings

E20-450

for standard reusable and disposable cannulae



CATARACT INSTRUMENTS



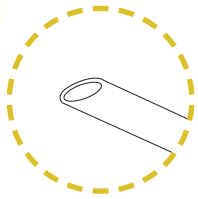
BIMANUAL DISPOSABLE I/A SYSTEMS

CATARACT INSTRUMENTS

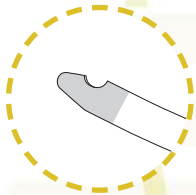
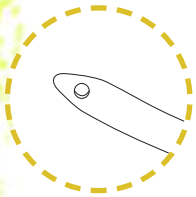


FEATURES AT A GLANCE

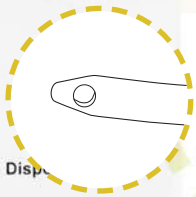
- Single use, sterile product.
- No risk of cross contamination.
- Lightweight, colour coded handles.
- Bullet shaped tip for easy tunnel insertion.
- Irrigation front open port or dual side ports.
- Aspiration port of 0.35 mm diameter.
- Roughened tip for capsule polishing.



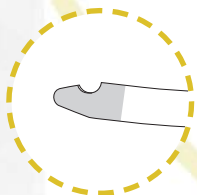
Bimanual I/A System 21GA/0.8 mm complete, consisting of 1 piece each:
 Irrigating handle, 45° front open port
 Aspirating handle, 0.35 mm top open port
BSD 500 system with rough aspirating tip



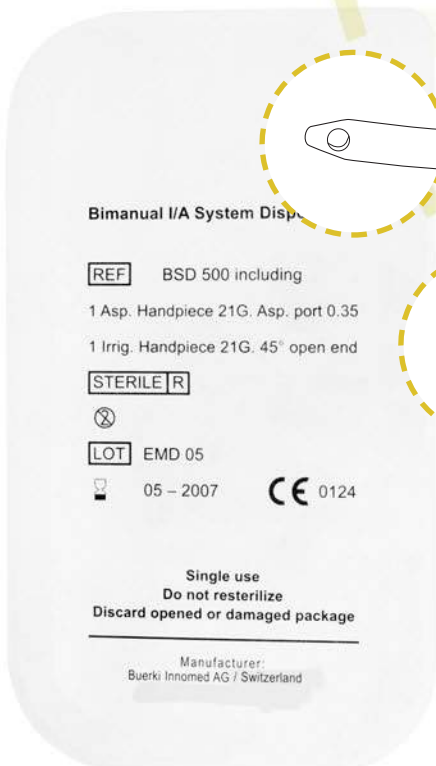
Bimanual I/A System 21GA/0.8 mm complete, consisting of 1 piece each:
 Irrigating handle, dual 0.45 mm side ports,
 Aspirating handle, 0.35 mm top open port
BSD 510 system with rough aspirating tip
BSD 515 system with smooth aspirating tip



Bimanual I/A System 20GA/0.9 mm complete, consisting of 1 piece each:
 Irrigating handle, dual 0.65 mm side ports,
 Aspirating handle, 0.35 mm top open port
BSD 560 system with rough aspirating tip
BSD 565 system with smooth aspirating tip



disposable products, sterile, 10 per box





FEATURES AT A GLANCE

- Reusable, xchangeable system
- Easy to clean; handles and tips can be cleaned separately. • EZLock® concept; I/A tips are secured by locking ring.
- Ergonomically designed titanium handpiece.
- Colour coded handpieces and removable tips.

While the irrigation instrument is used as an active rinsing cannula...

EZLock®
Irrigation Handpiece
titanium, 9.0 cm
E20-460



EZLock®
Irrigation Cannula Tips
for use with handle E20-460
21GA/0.8 mm curved tube, dual 0.5 mm side ports
E20-461 smooth tip
E20-462 rough tip



EZLock®
Irrigating Chopper Tip
for use with handle E20-460
20GA/0.9 mm curved tube, 0.5 mm front open port
E20-483R



EZLock®
Aspiration Handpiece
titanium, 9.0 cm
E20-470



...aspiration can be performed in the safe central area of the capsule.

EZLock®
Aspiration Cannula Tips
for use with handle E20-470,
21GA/0.8 mm tube, 0.3 mm top port
E20-471 smooth tip
E20-472 rough tip





Your favourite Phaco Chopper is now available with irrigation!

stainless steel tips are welded for extra durability...

CATARACT INSTRUMENTS



EZFlo®
Nichamin Irrigating Chopper
"Quick Chop", wedge shaped tip



EZFlo®
Rosen Irrigating Chopper
wedge shaped tip, blunt front end

titanium handle with stainless steel tip and shaft, female Luer connector, 9.0 cm



EZFlo®
Nagahara Irrigating Chopper
0.5 mm front open port
wedge shaped tip, 60° or 90° cutting edge



EZFlo®
Nagahara Irrigating Chopper
dual 0.5 mm side ports
wedge shaped tip, 60° or 90° cutting edge

Aspirating handpieces are ideal for maintaining the fluidic balance in the anterior chamber when used with irrigating phaco choppers and while aspirating residual cortex



EZFlo®
Aspirating Handpieces
curved 17 mm round cannula, smooth tip, 0.35 mm top port
E20-450S20 20GA/0.9 mm
E20-450S18 18GA/1.2 mm

The PMS range of EZFlo® standard 20GA and 18GA Irrigating Choppers caters to all types of nucleus and various dividing techniques with tips that are sharp or blunt. Tips with cutting edges for sweeping or backward action, etc.

Product No.	Description	GA	OD (mm)	ID (mm)	Port diameter (mm)	Flow rate*
E20-483	Nichamin, front port	20	≠Ø 0.9 mm	≠Ø 0.5 mm	1 x Ø 0.5 mm	52/min
E20-485	Rosen, front port	20	≠Ø 0.9 mm	≠Ø 0.5 mm	1 x Ø 0.5 mm	52/min
E20-486	Nagahara 60°, front port	20	≠Ø 0.9 mm	≠Ø 0.5 mm	1 x Ø 0.5 mm	55/min
E20-487	Nagahara 60°, dual side ports	20	≠Ø 0.9 mm	≠Ø 0.5 mm	2 x Ø 0.5 mm	50/min
E20-489	Nagahara 90°, front port	20	≠Ø 0.9 mm	≠Ø 0.5 mm	1 x Ø 0.5 mm	55/min
E20-493	Nichamin, front port	18	≠Ø 1.2 mm	≠Ø 0.8 mm	1 x Ø 0.8 mm	75/min
E20-495	Rosen, front port	18	≠Ø 1.2 mm	≠Ø 0.8 mm	1 x Ø 0.8 mm	75/min
E20-496	Nagahara 60°, front port	18	≠Ø 1.2 mm	≠Ø 0.8 mm	1 x Ø 0.8 mm	75/min
E20-497	Nagahara 60°, dual side ports	18	≠Ø 1.2 mm	≠Ø 0.8 mm	2 x Ø 0.8 mm	70/min

*Flow Rate Test Conditions:

One litre head of water, gravity fed over a vertical distance of one meter through an irrigation line (Ø 2.5 mm) *These values are estimates only. It is recommended that the surgeon derives his/her own values based on individual clinical experience (positioning of the BSS bottle height).

BIMANUAL IRRIGATING PHACO CHOPPERS



FEATURES AT A GLANCE:

- All required instruments in one kit, saves time and costs.
- Elliptical shaped tips provide a better fit to the incision.
 - Less fluid leakage, better anterior chamber stability.
 - Lightweight, titanium handpiece, colour coded: blue for irrigation and magenta for aspiration.
- Standard male/female Luer slip connectors.
 - Compatible with I/A and Phaco systems.
 - Works between 1.2-1.5 mm incision.

the **KEY** to successful bimanual ultra-small incision phaco surgery

A. Gomes
Irrigating Phaco Chopper
20GA/0.9 mm oval cannula,
flat tip with front open port
E20-484



A. Gomes
Aspirating Handpiece
21GA/0.8 mm oval cannula,
flat tip with front open port
E20-457



A. Gomes
Phaco Needle Tip 30°
20GA/0.9 mm oval needle,
inclusive plastic wrench key
PTO 1050/A



for use with
AMO Sovereign
B&L Millenium
Fritz Ruck Pentasys

A. Gomes
USICS Kit
(supplied in autoclavable case)
complete, consisting of one each:
E20-484, E20-457, PTO 1050/A
E42-119



tip enlarged 2:1

Video available

CATARACT INSTRUMENTS



IRRIGATION/ASPIRATION SYSTEM



CLEANING AND MAINTENANCE

- Monomanual I/A System
- Bimanual I/A System
- Irrigation Choppers

The above I/A Handpiece systems and Irrigation Choppers are reusable products supplied Non-Sterile. To insure patient safety, handle the instruments carefully and protect from damage. Do not use if damaged in any manner. Do not attempt to alter or repair. Wash, flush, rinse, dry and sterilise prior to initial use & each subsequent use. Assure free flow of rinse solution through instrument.

NOTE!

Improper or inadequate cleaning may result in particles adhering to the instrument and exfoliation into the surgical field. In addition, the function and life expectancy may become compromised.

CLEANING

Before First Use:

Immerse in an alkaline solution/pH >10 at 20°C during 15 min. Afterwards, rinse thoroughly with purified or distilled water.

During Use:

Immerse I/A Tip and Irrigation Chopper in sterile distilled water, which will help to prevent blood, tissue or saline (BSS) to dry on instruments.

After Use:

Irrigation Handpieces & Choppers

1. Fill distilled water in a 10 cc syringe.
2. Attach syringe to the irrigation connector.
3. Expel water and repeat this step.

Aspiration Handpieces

1. Connect the cleaning adaptor E20-422 to a disposable or reusable 10 cc syringe.
2. Attach syringe to the aspiration connector
3. Draw distilled water through the aspiration connector into the syringe.
4. Disconnect the syringe and expel water
5. Connect syringe and repeat step 3-4.



Cleaning Adaptor
2 x Luer-Lock female
E20-422

STERILISATION (IS NOT CLEANING)

- Monomaneual I/A System
 - Bimanual I/A System
 - Irrigation Choppers

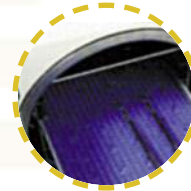
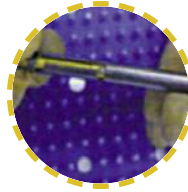
Above products are sold Non-Sterile and must be cleaned and sterilised before the first use!

Hospital approved procedure for handling, cleaning and sterilising must be followed.

Before sterilisation the instrument should be inspected for cleanliness and functionality.

Store instruments in a protective tray for selective positioning and sterilisation.

As a suitable sterilisation process we recommend steam sterilisation in autoclave at 273°F/134°C.



POINTS TO REMEMBER

Do not allow blood, tissue or saline (BSS) to dry on instruments.

NEVER USE SALINE (BSS) FOR RINSING INSTRUMENTS

Always use demineralised or distilled water for final rinsing.

NOTE: The processing of the instruments remains exclusively your responsibility.





MICRO INCISION CATARACT INSTRUMENTS

CATARACT INSTRUMENTS

20GA/0.9 mm

standard instruments are ideal to fit through a 1.4 mm paracentesis.



Sapphire
Micro Incision Knives
angled, 10 facet blade

E10-170 0.9-1.2 mm

E10-171 1.3-1.5 mm

E10-172 1.8-2.4 mm

for bimanual phaco
procedures and micro
cataract surgery



Beehler Style
Small Incision Pupil Dilator
18GA/1.2 mm straight tube with external micro hook

*E15-572 2 fingers for 3 points dilation

simple and safe
method for
pupil dilation



EZChange®

Zaldivar Style Iridectomy Scissors
removable tip, 20GA/0.9 x 30 mm straight shaft,
curved 2 mm sharp blades, 15.0 cm

E25-620Z

ideal to perform iridectomy



EZChange®

Utrata Style Iridectomy Forceps
removable tip, 20GA/0.9 x 30 mm
curved shaft, fine grasping tips with
0.5 mm platforms, 15.0 cm

E30-621U

ideal for easy
pick up of
the iris and
fibrotic synechia



EZChange®

Kershner Style Micro Capsulorhexis/
Iridectomy Forceps, removable tip,
23GA/0.6x22 mm curved shaft,
fine grasping tips, 15.0 cm

E30-623K



* for further details please refer to page 106

MICRO INCISION CATARACT INSTRUMENTS

PMS



23GA/0.65 mm

micro instruments are ideal for easy passage through a very small paracentesis.



Alio
Micro Iridectomy Scissors
23GA/0.6 x 26 mm curved shaft,
straight cutting blades, 14.0 cm
E25-623S

Ultra micro shafts for insertion through a 1.0 mm incision.

ideal for cutting synechia, performing small pupil iridotomies and enlargement of the capsular bag



Alio II
Micro Capsulorhexis/Iridectomy Forceps
23GA/0.6 x 22 mm curved shaft,
very fine grasping tips,
14.0 cm
***E30-623S**

Curved shafts for a more comfortable approach.

ideal for easy pick up of the iris, for creating and grasping the capsular tag and performing the capsulorhexis in one maneuver

Fine-Ikeda
Micro Capsulorhexis Forceps
23GA/0.6 x 17 mm curved shaft, extra fine tips, 14.0 cm
***E30-624S**

short shaft allows for easy working in the sub-incisional area



Ikeda II
Micro Capsulorhexis Forceps
23GA/0.6 x 26 mm curved shaft,
micro jaws with 0.25 mm tips, 14.0 cm
***E30-625S**

Recessed jaws for improved sub-incision flap purchase.

for secure grip of the anterior capsule in the presence of viscoelastics



The PMS range of 23GA/0.65 mm MICS Instruments is also available with **EZChange®** removable tips.

Special designed platform to securely grip in the presence of viscoelastic.

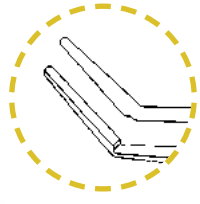
Brief Description	Product No. (complete)	Product No. (tip only)
Alio Scissors	E25-623A	E25-623R
Alio II Forceps	E30-623A	E30-623R
Fine-Ikeda Forceps	E30-624F	E30-624R
Ikeda II Forceps	E30-625I	E30-625R

CATARACT INSTRUMENTS



IOL INSTRUMENTS - PMMA LENS FORCEPS

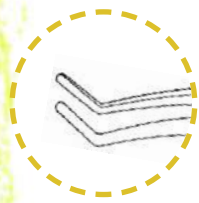
*Gold-plated handles
for easy identification.*



EZHold®
Kelman-McPherson
Tying & Lens Holding Forceps
angled 7.5 mm smooth jaws
with platform, 10.5 cm
***E30-463**

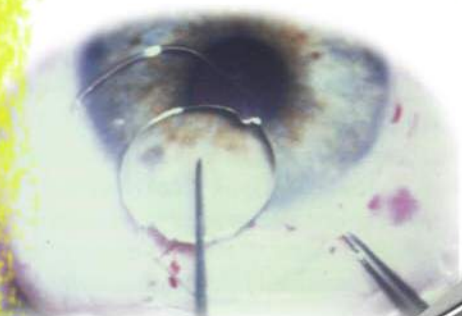


EZHold®
Bechert-McPherson
Lens Holding Forceps
angled 10 mm smooth jaws
with platform, 10.5 cm
***E30-465**



EZHold®
Clayman Style
Lens Holding Forceps
gently curved, angled
smooth jaws, 11.5 cm
***E30-622**

*for superior approach, enables easy
implantation of haptic and optic*



*forceps grasping approximately half
of lens optic for easy implantation*



EZHold®
Blaydes Style
Lens Forceps
narrow smooth
jaws, 11.0 cm
***E30-623**

**also available in titanium, please add "T" to cat. no.*

CATARACT INSTRUMENTS

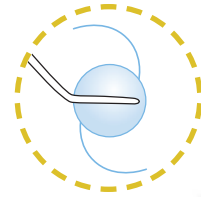
IOL INSTRUMENTS - SOFT LENS FORCEPS

PMS



Highly polished jaws
prevent damage to the optic surface.

HOLD

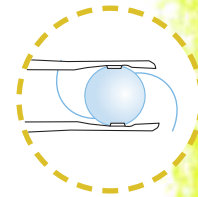


EZHold®
Steinert Lens Holding Forceps
angled 7.5 mm smooth jaws,
flat inside surfaces, 10.5 cm
E30-643



for holding soft IOLs
while folding with an inserting forceps

PICK UP

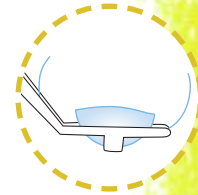


EZFold®
Livernois IOL Folding Forceps
angled 10 mm smooth paddle jaws,
concave inside surfaces, 10.5 cm
E30-661



designed to pick up and fold silicone
or acrylic lenses in one maneuver

FOLD

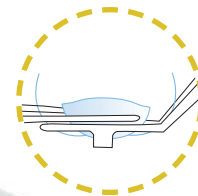


EZFold®
Seibel Foldable Lens Loader
angled 12 mm smooth paddle jaws,
straight inside surfaces, 11.0 cm
E30-667T



paddles effectively pick up soft IOLs
for even and equal folding

TRANSFER



EZHold®
Faulkner Lens Holding Forceps
angled 11 mm rounded
smooth jaws, 10.5 cm
***E30-645**



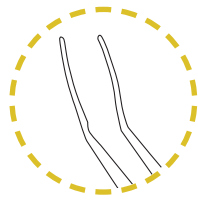
*also available in titanium, please add "T" to cat. no.

CATARACT INSTRUMENTS



IOL INSTRUMENTS - ACRYLIC LENS FORCEPS

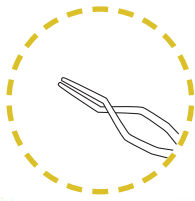
Foldable Lens Inserters
are best to implant acrylic lenses
through a small incision.



EZSert®
Buratto Lens Forceps
angled 8 mm shanks,
biconvex smooth jaws,
10.5 cm
E30-646T



EZSert®
Spaleck Lens Forceps
angled 15 mm shanks,
biconvex smooth jaws,
11.0 cm
E30-648T



EZSert®
Ernest-McDonald
Soft Lens Insertion Forceps
cross-action design, angled 15 mm shanks,
low profile biconvex smooth jaws,
10.0 cm
E30-663T



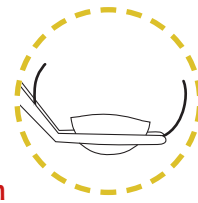
EZSert®
Fine Universal Lens Folder
angled 8 mm
shanks, biconvex
smooth jaws,
10.5 cm
E30-665T without lock
E30-666T with lock

IOL INSTRUMENTS - ACRYLIC LENS FORCEPS

PMS



*Always make certain
that the lens is centered and
symmetrically folded and the
haptics are in the desired position*



EZSert®
Buratto Lens Forceps
angled 8 mm shanks,
biconvex smooth jaws,
10.5 cm
E30-646



designed to provide a secure hold
on most soft IOLs for easy insertion

EZSert®
Spaleck Lens Forceps
angled 15 mm shanks,
biconvex smooth jaws,
10.5 cm
E30-648



ideal for inserting foldable IOLs
through a small incision; internal stop restricts stretching of
the small incision

EZSert®
Ernest-McDonald
Soft Lens Insertion Forceps
cross-action design, angled 15 mm shanks,
low profile biconvex smooth jaws,
10.0 cm
E30-663



cross-action design allows for
easy insertion of most foldable len styles

EZSert®
Zaldivar Soft Lens Insertion Forceps
angled 9 mm shanks, biconvex jaws
with extended smooth tips, 12.0 cm
E30-633 stainless steel
E30-633T titanium



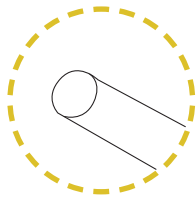
extended flat tips are useful to
implant superior haptic

designed to fold
today's soft IOLs

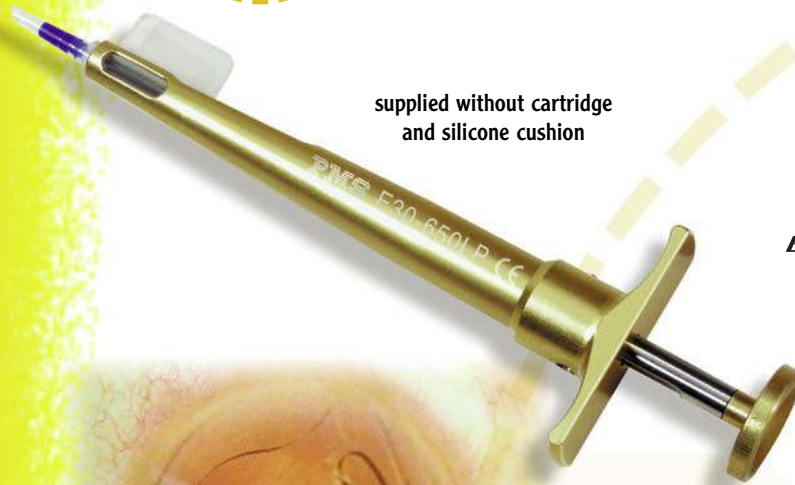
CATARACT INSTRUMENTS



*The EZ way
to implant...*



supplied without cartridge
and silicone cushion



EZJect®

Thomas Lens Injectors
lightweight aluminium handle,
plunger piston with flat tip,
for 1-piece foldable lenses

E30-650LP syringe style, 10.0 cm

E30-651LP screw style, 14.5 cm



photo shows injection of 1-piece foldable lens

The **EZJect®** Foldable Lens Injectors can be used with
the Medical ViscoJect™ Cartridge Sets #LP604235/
#LP604240M and other injector cartridge systems.

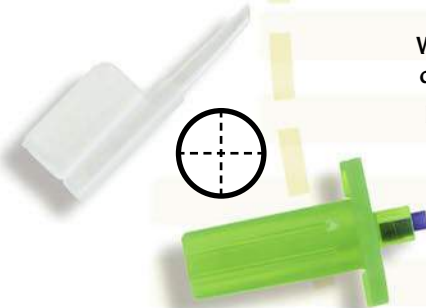
ViscoJect™ and ViscoGlide™ are registered trademarks of Medical AG

CATARACT INSTRUMENTS

VISCOJECT™ CARTRIDGE SETS FOR 1-PIECE LENSES
consisting of ViscoGlide™ cartridge and silicone cushion

LP604235 2.7 Cartridge Set, sterile (box of 10)
for < 2.8 mm incision size

LP604240M 2.2 Cartridge Set, sterile (box of 10)
for < 2.5 mm incision size



Silicone Cushion (blue)

LS604500

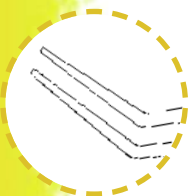
used with flat tip injectors
E30-650LP & E30-651LP

EZJect®

Cartridge Loading Forceps
angled 13 mm long jaws,
smoothly polished, 10.5 cm

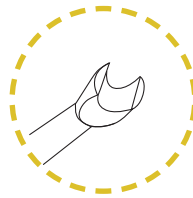
E30-651LF

ideal to place the soft lens into the
open cartridge and to control
correct loading



Do not resterilise injector cartridge and silicone cushion. Single use only.

*...simple, safe
and speedy*



EZject®
Thomas Lens Injectors
lightweight aluminium handle,
plunger piston with grooved tip,
for any kind of foldable lenses

E30-650LC syringe style, 10.0 cm

E30-651LC screw style, 14.5 cm



Injector Cartridges
for any kind of foldable lenses
with oval shaped tips
sterile, disposable plastic

LC604210 OvalGlide™
for 3.2-3.35 mm incisions

LC604220 MicroGlide™
for 2.85-3.0 mm incisions



used with grooved tip injectors
E30-650LC and E30-651LC

OvalGlide™ and MicroGlide™ are registered trademarks of Medical AG

EZject®
Lens Pusher/Manipulator
angled 13 mm parallel arms
with flat external surfaces,
10.5 cm
E30-651LM

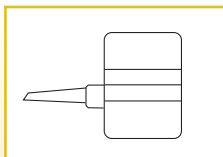
designed to accurately adjust soft lenses
within the tube portion of the cartridge



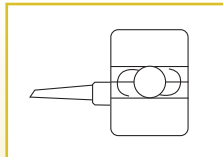
Video available

CATARACT INSTRUMENTS

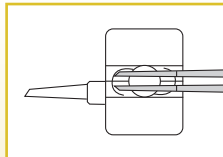
INSTRUCTIONS FOR LOADING



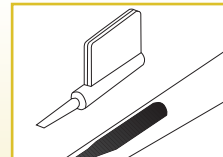
Open cartridge and fill
the loading chamber
with viscoelastic.



Place lens into the open
cartridge. Adjust lens
always in the axis of
the cartridge.



Use E30-651LF forceps
or E30-651LM pusher
to gently press the
centered lens into
the tube.



Close cartridge
and slide into the injector
opening.

IMPORTANT INFORMATION FOR IMPLANTATION:

The cartridge is inserted bevel down in the wound! Advance the lens slowly.



innovative IOL injection system

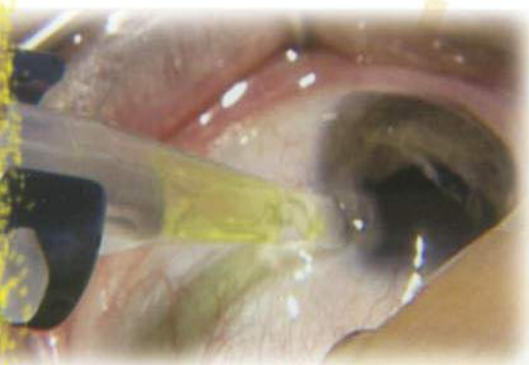
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EZject® II Lens Injector
lightweight titanium handle with
single hand plunger mechanism

E30-652T

for 1-piece and 3-piece Acrylic IOLs using
the Monarch® II A, B and C cartridges



injection of 1-piece AcrySof® IOL through a 2.2 mm micro incision

Specially designed handle with finger rest and
removable thumb ring allows firm grip and
precise control of the implantation procedure.



EZject® III Lens Injector
lightweight titanium handle with
single hand plunger mechanism

E30-653T

Gold tip for good visibility
through the cartridge

for injecting 1-piece AcrySof® Aspheric IOLs
using the new Monarch® III D cartridges

Patent pending



EZject®
IOL Inserter Forceps
all titanium body, thin
and smooth jaws, 11.0 cm
E30-654T

ideal for inserting
AcrySof® IOLs to
Monarch® A, B and
C cartridges

to be used with the **EZject®** Lens Injectors E30-652T and E30-653T

AcrySof® and Monarch® are registered trademarks of Alcon Laboratories, Inc.

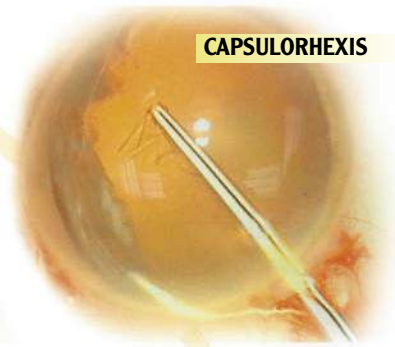
THE BENEFITS OF MODERN CATARACT SURGERY



Lens Implant / Euro Cent comparison

Fortunately for every one of us who's "getting older", a man-made artificial lens has been developed which many times will even work better than the natural human lens after age 60. This clear plastic lens - **made of PMMA, Silicone and Acrylic material** - is inserted surgically as a replacement for the natural lens and will, in most cases, last a lifetime.

Many who go through the procedure experience not only return of lost vision, but also a renewed independence and vitality. The removal of the cloudy lens and the increase in light which results may well be one reason why senior adults are living more productive and healthy lives in the 21st Century.



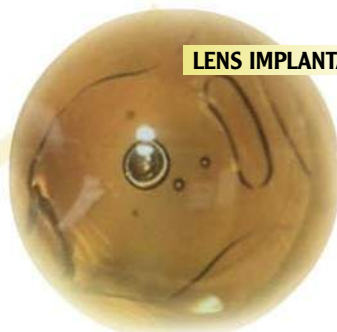
CAPSULORHEXIS



PHACOEMULSIFICATION



ASPIRATION



LENS IMPLANTATION

CATARACT INSTRUMENTS



“It's so EZ® to change”



Removable instrument tips

Hold the tip gently but firmly and screw the handle onto the tip!
Make sure that the handle is turned only, NOT THE TIP!

Ergonomically designed handpieces

- Lightweight, aluminium 70% lighter (than steel).
- Highly corrosion-resistant, good for long life.
- Sleek design for perfect balance and control.
- Handles compatible with removable tips.
- Eliminates cost of permanent handle.
- Total length of handle 9.0 cm.



Handles and tips sold separately

Colour-coded handles

- Easier identification on the sterile field

Product code for handles

E15-100 AY	yellow
E15-100 AR	red
E15-100 AG	green
E15-100 AB	blue
E15-100 AP	purple



Do not use acid or alkali detergents or any kind of abrasive for cleaning the aluminium handle. Never use balanced salt solution for rinsing .





**Lester
Lens Pusher**
E15-500R straight
E15-501R angled



**Lewicky
IOL Manipulating Hook**
E15-557R vaulted



**Nevyas
Soft IOL Manipulator**
straight, rough tip
E15-558R

Choice of EZChange® tips

Ideal for dialing rigid or foldable IOLs,
insert and maneuver lens haptics, retract iris
and to manipulate nuclear cataract.

instrument tip with thread
for absolute secure locking;
shaft and tips are made of
1-piece stainless steel



**Sinskey II
IOL Manipulating Hook**
E15-560R straight
E15-561R angled



**Rentsch
Lens Manipulating Hook &
Iris Retractor, straight**
E15-562R

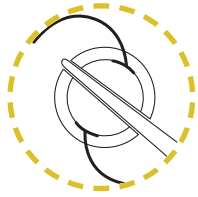


**Kuglen
Iris & IOL Manipulator**
E15-564R straight
E15-565R angled



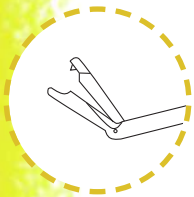
Just got easier!

CATARACT INSTRUMENTS



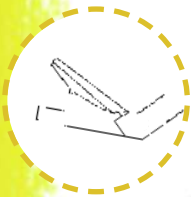
EZCut®
Williams Soft IOL Cutter
solid lower blade, wedge shaped
upper cutting blade, 11.0 cm
E30-630T

ideal to cut and remove any soft IOL;
hinged mechanism ensures needed
cutting strength



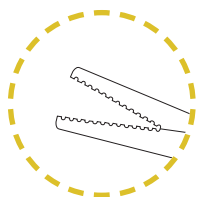
EZCut®
Leopold Soft IOL Cutter
scissors style cutting blades
with fixation pin at the front, 11.0 cm
E30-631T

scissors style allows cutting in
one smooth continuous action



EZCut®
Osakabe Soft IOL Cutter
slotted lower blade, wedge shaped
upper blade with slightly blunt pick, 11.0 cm
E30-632T

for controlled and effective cutting;
fixation pick prevents IOL slipping



EZCut®
Osher IOL Cutting Scissors
angled to side, 8 mm serrated blades,
blunt tips,
10.0 cm
E25-466

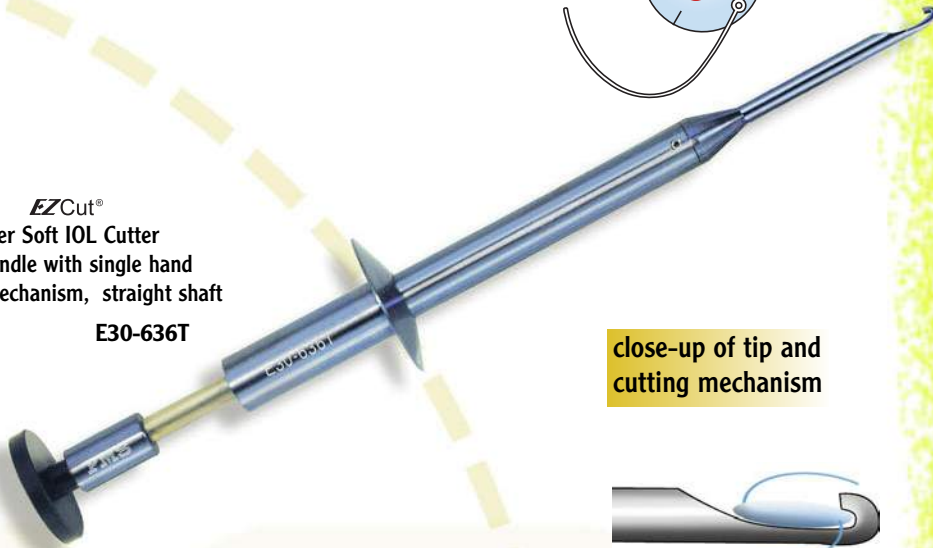
for "crisscross technique"
IOL removal



Cuts any foldable IOL



EZCut®
Alexander Soft IOL Cutter
titanium handle with single hand
plunger mechanism, straight shaft
E30-636T



close-up of tip and cutting mechanism



1. Retrograde curved tip and platform cradles the IOL in the anterior chamber.



2. Lightly press the plunger to engage the lens retaining guard which secures the IOL during cutting process.



3. Continual pressure on the plunger engages the cutting blade and bisects the IOL.

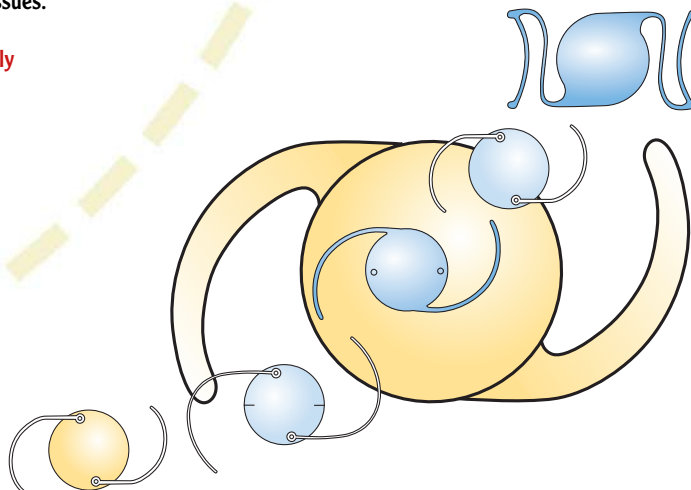
FEATURES AT A GLANCE

- Titanium construction provides durability and lightweight.
- Designed to be used through a small incision without stretching the wound.
- Plunger rod activates retaining guard and cutting blade simultaneously.
- Retaining guard firmly holds the lens in place and prevents it from “buckling” upward.
- Angled cutting blade advances lengthwise through the IOL in one linear movement.

PROTECTION AND SAFETY

- The lens is firmly hold during the cutting process, lessening the chance of endothelial damage.
- The cutter movement is designed to cut only the IOL and not the surrounding tissues.

The PMS EZCut® IOL Cutter effectively and safely cut any kind of foldable acrylic and silicone lenses through a small incision.





IOL INSTRUMENTS - CAPSULAR TENSION RING INJECTOR

necessary in modern cataract surgery

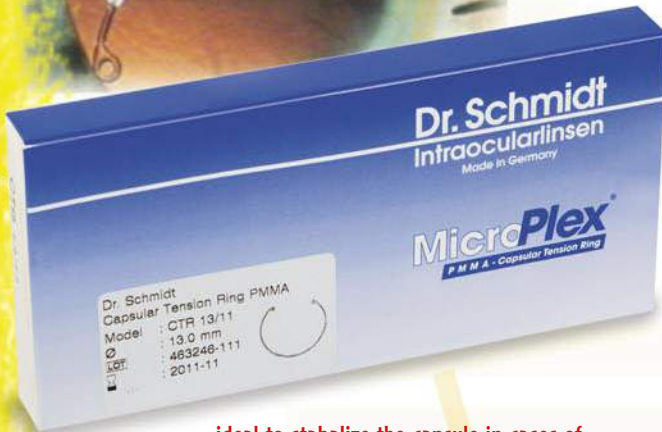
CATARACT INSTRUMENTS



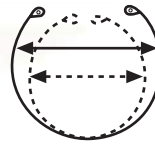
Spatulated tip with a micro hook inside for effective and reliable catching, holding and injecting of the Capsular Tension Ring. The Ring can be implanted in both clockwise or counterclockwise directions.



EZJect®
Tension Ring Injector
lightweight titanium handle with single hand plunger mechanism and 19GA/1.1 mm curved shaft
E30-655T



ideal to stabilize the capsule in cases of damaged or missing zonules, luxation of IOLs and zonulolysis



Dr. Schmidt
Capsular Tension Ring PMMA with eyelet, total diameter 11.0 mm to 13.0 mm, disposable (1 unit)

EZJect®
Tension Ring Manipulator/Forceps
20GA/0.9 mm curved shaft, disc shaped lower jaw with hole to accommodate the manipulator, 15.0 cm

E30-655S stationary tip
E30-655N removable tip

The manipulator can be used independently and in combination with the disc as a forceps.



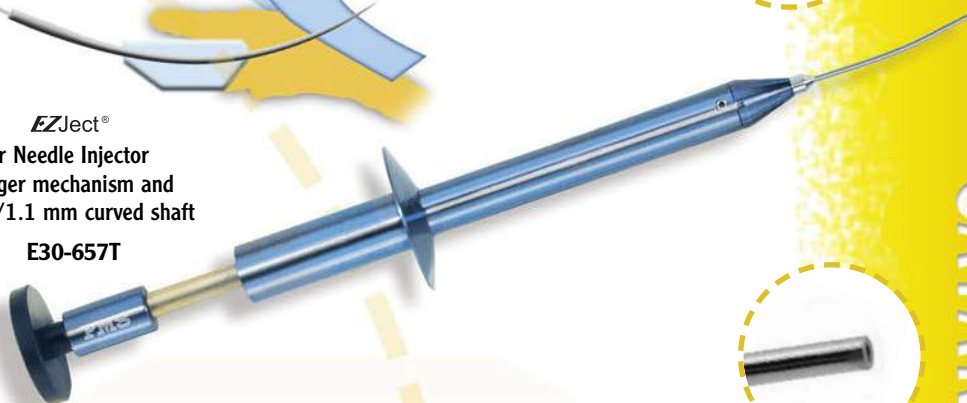
Manufacturer:
Dr. Schmidt Intraocularlinsen,
Germany



IOL Scleral Suturing

EZJect®
Intraocular Needle Injector
titanium handle with plunger mechanism and
19GA/1.1 mm curved shaft
E30-657T

Ideal for IOL scleral fixation through a small incision using needled sutures for secondary implantation. Can be used with straight and curved spatulated needles with length up to 20 mm (Polypropylene 10-0 or 9-0)



Osher
Needle Guide
titanium handle with
stainless steel tip,
12.0 cm
E30-658T

can be used with E30-657T, provides counter traction for IOL suturing needle when passes through eye wall



EZJect®
Sugiura Intraocular Needle Injector
aluminum handle with plunger mechanism,
straight shaft, cushion style
2.0 x 0.9 mm flat tip
E30-659

latest technique for ciliary sulcus fixation of IOL; extremely safe and simple to use



Video available

CATARACT INSTRUMENTS