

THE EYE INSTRUMENTS

PMO



CD

PMG



General Information

Basic Eye Instruments

Titanium Eye Instruments

Cataract Instruments

Keratorefractive Instruments

Vitreoretinal Instruments

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CD

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PMS ONLINE

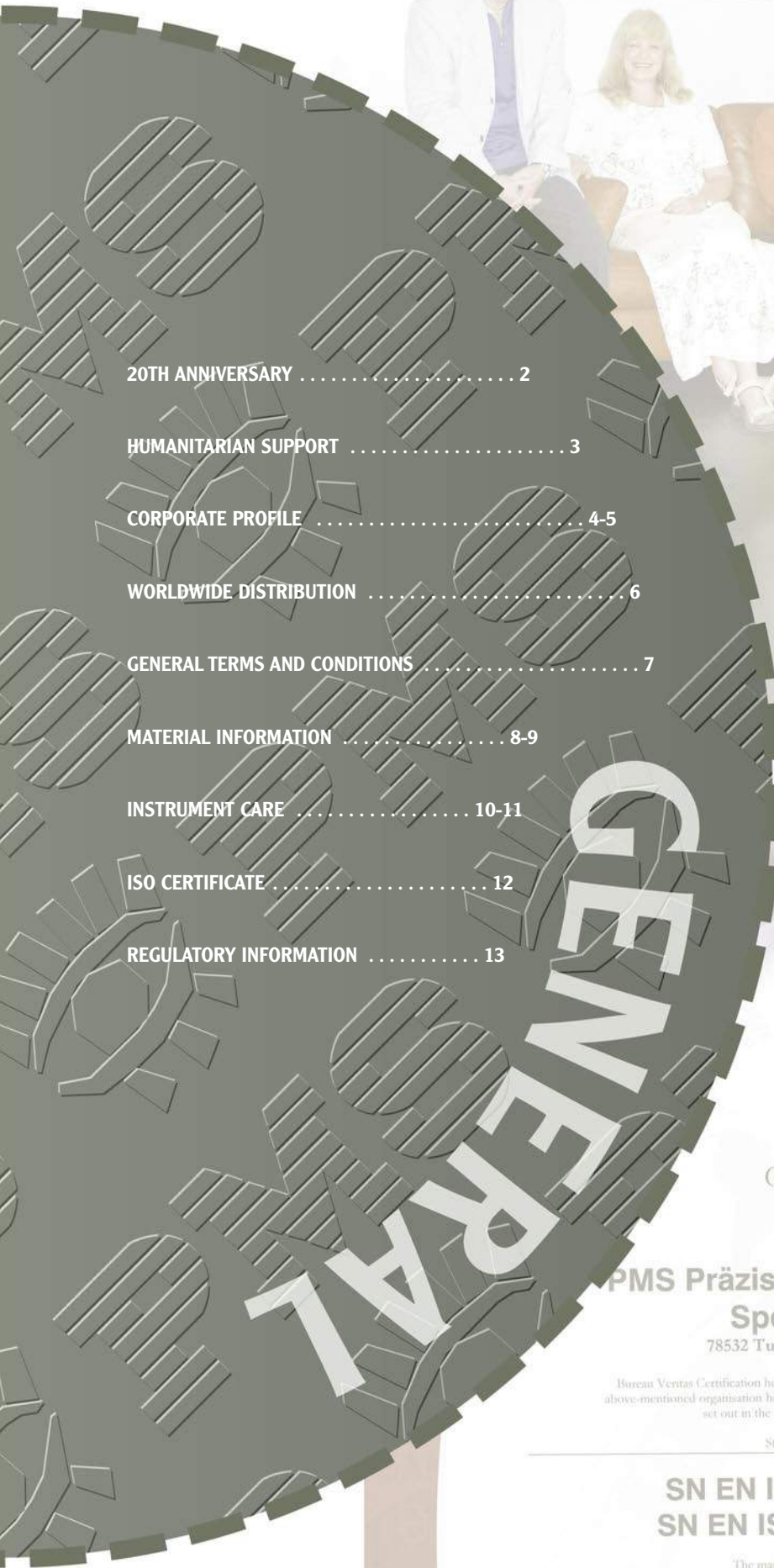
Our new Ophthalmic Product Catalogue, CD and Website are an excellent basis and support for future growth. There you will find precise product descriptions, general technical and medical data, and tips for proper care and maintenance on the complete range of PMS Ophthalmic Surgical Products. So if you want a general idea or detailed information about our company, our philosophy and our high quality products - come and have a look. You can visit PMS "Precision Medical Specialities" online -

www.pms-tuttlingen.de



NOTES

A large, curved dashed line on the right side of the page, defining a semi-circular area. Inside this area, there are horizontal dotted lines for writing notes.



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Certificate
for

**PMS Präzisions Medizinische
Spezialitäten**

78532 Tuttlingen / Deutschland

Bureau Veritas Certification hereby confirms that the management system of the above-mentioned organisation has been assessed and complies with the requirements set out in the following standards / regulations.

Standards/Regulations

**SN EN ISO 9001 : 2000
SN EN ISO 13485 : 2003**

The management system comprises:

Sales of special medical instruments (Group I)



PMS

Precision Medical Specialities GmbH was founded in 1988 with the total commitment to produce eye surgical instruments of excellent quality and to provide unexcelled service to our clients. Our dedication to that promise has earned us hundreds of satisfied customers all over the world for which we are very grateful. Whilst we are proud of our achievements during the last 20 years, our success would not have been possible without the continued patronage from you, our valued customers.

Classic quotes in celebration of PMS's 20th Anniversary

An anniversary is the celebration of love, trust, partnership, tolerance and tenacity. The order varies for any given year.
—Paul Sweeney

At 20 a man is full of fight and hope. He wants to reform the world. When he's 70 he still wants to reform the world, but he knows he can't.
—Clarence S. Darrow

Celebrate what you want to see more of.
—Thomas J. Peteres

There's not one wise man among 20, who will praise himself.
—William Shakespeare

Instead of thinking about where you are, think about where you want to be. It takes 20 years of hard work to become an overnight success.
—Diana Rankin

The more you praise and celebrate your life, the more there is in life to celebrate.
—Oprah Winfrey

At 20 years of age the will reigns; at 30 the wit; at 40 the judgement.
—Benjamin Franklin

The measure of a master is his success in bringing all men around to his opinion 20 years later.
—Ralph Waldo Emerson

Hindsight is always 20-20.
—Billy Wilder

Though it sounds absurd, it is true to say I felt younger at 60 than I felt at 20.
—Ellen Glasgow

From the management

I would like to take this opportunity to personally thank you for your support and allowing us to serve you over the last 20 years. You have made our success possible and I promise that we will continue to maintain the same standard of excellence in the future. With sincere thanks, Volker Schneckeburger (CEO).

The future development

PMS is currently made up of a small group of highly experienced people. We produce our instruments entirely in Tuttlingen, the home of the surgical instrument making industry, since more than 200 years with continual improvements. In the near future, we shall also improve on communication, image, packaging and PR, which will better correspond to the high standard of our surgical instruments.

Comprehensive product presentation

This is the most modern and extensive line of German made ophthalmic microsurgical instruments we have ever presented. You will find almost 1000 items including many new products to aid the progressive eye surgeon in performing the most delicate procedures, in particular Cataract, Keratorefractive and Vitreoretinal Surgery. This easy to use catalogue is designed to provide full details on all PMS products - please use it as a reference.

New catalogue design

Inside this new catalogue, you will find that our pages have been redesigned, not because we did not like our old look, but because of the 20th anniversary, we felt it was simply time to freshen up our image and our presentation. We trust you will like it, and we look forward to hearing your comments on the catalogue's new design.



YOU CAN HELP US HELP

In this anniversary year, there are many ways to express the spirit of giving, of thankfulness, of celebration, and of hope. We at PMS GmbH would like to support a humanitarian project of your choice.

Therefore, we plan to establish a fund with the aim to deliver assistance to a charity that helps children or families in need, regardless of race, creed, religion or nationality.

One of our main principles is to support people in countries, where deprivation, hunger, disease and destitution are strong realities, and where people struggle daily for survival.

Starting January 1st, 2009, for each ophthalmic surgical instrument sold, we shall equally contribute 0.20 EUR to a humanitarian project – chosen by you.

At the close of each year, we shall inform you of the contribution amount available. We will also provide a list of charities to you and you should let us know which project you prefer. Your favoured charity will receive this financial donation from PMS GmbH.

HUMANITARIAN SUPPORT



Precision Means Security

CORPORATE PROFILE

In 1988, PMS GmbH was established by Volker Schnekenburger with an aim to specialise in the manufacturing, promotion and sales of medical instruments and related equipment for hospitals, clinics and research institutes.

The company's objective was and remains to manufacture and market the finest and most delicate surgical instruments - of affordable quality and excellence - for OPHTHALMOLOGY and the following disciplines: ENT, Plastic & Reconstructive, Micro and Neuro Surgery.

Based on a team of highly skilled, quality conscious and experienced craftsmen (instrument makers) and modern milling centres and equipment, PMS GmbH became, over the last 20 years, a synonym for supplying consistent, superior quality Precision Medical Specialities.

This consistency is guaranteed by a Quality Assurance System. All PMS facilities are certified according to the prestigious ISO 9001:2000 / EN 13485:2003 as well as acc. to the European Medical Devices Directive 93/42/EEC, Annex II, to ensure compliance with the CE-Marking requirements.

Quality is a key word at PMS GmbH. This starts with the design and the choice of raw material (medical grade stainless steel), and is valid throughout the manufacturing process including the final inspection and shipment of the products.

New products have contributed significantly to the growth and success of PMS GmbH. We have a dedication to provide innovative products as surgical techniques and requirements may change. If you have a new instrument idea which may simplify surgical techniques and reduce procedural costs, please contact us directly and/or your local distributor (listed on page 6 of this catalogue).



The world is changing faster than ever before in history - and so are the specific needs of the customers. The demand is for flexibility, reliability, quick response, and quality.

Everywhere service is the key. PMS GmbH is taking this into account. Our sales and customer service representatives, as well as competent international distributors around the world, will provide the assistance you may need for PMS products.

At PMS, people make the difference. A dedicated service team - backed up by an efficient stocking and distribution system - will give you the competitive edge you need to build your business.



MORE THAN MEETS THE EYE



CORPORATE PROFILE



Tuttlingen, home of the instrument making industry for almost 200 years.



WORLDWIDE DISTRIBUTION



HERE YOU ARE SERVED BEST

PMS' distribution partners who are based throughout the world are available to visit you to demonstrate instruments, offer technical advice or solve administrative problems.

- **AUSTRALIA:** McFARLANE, Surrey Hills (VIC)
- **BAHRAIN:** WAEI PHARMACY W.L.L., Manama
- **CANADA:** INSTRUMENTARIUM, Terrebonne (QC)
- **CHINA:** --> TAIWAN
- **CZECH REPUBLIC:** PETR BÍLEK 3B instruments, Nove Mesto na Morave
- **EGYPT:** CARE FOR TRADING S.A.E, Cairo
- **FRANCE:** ALCYON FRANCE, Paris
- **GERMANY:** WEFISINNOVID GMBH, Cologne
- **GREECE:** PHARMEX S.A., Sepolia-Athens
- **HONG KONG:** MILVERTON LIMITED, Tsimshatsui, Kowloon
- **HUNGARY:** OPHTHALMIC PRODUCT CENTER LTD., Budapest
- **INDONESIA:** PT. AJIAGUNG LANGGENG ABADI, Depok
- **IRAN:** CDX IRAN COMPANY, Tehran
- **IRELAND:** TEKNO SURGICAL LTD., Dublin
- **ITALY:** ALFA INTES SRL., Casoria (NA)
- **JAPAN:** T.M.I. COMPANY LTD., Niiza-Shi, Saitama
- **JORDAN:** AL GHAD DRUG STORE, Amman
- **KUWAIT:** GROUPTTEK FOR MEDICAL/SCIENTIFIC
- **KOREA, SOUTH:** MEERE TECHNOLOGY CO. LTD., Seoul
- **LEBANON:** HAGE MEDICAL S.A.R.L., Dora, Beirut
- **MALAYSIA:** SURGICAL IMPLANTS AND APPLIANCES, Kuala Lumpur
- **MOROCCO:** USAGE MEDICAL S.A.R.L., Casablanca
- **PERU:** GLATT S.A., Surco, Lima
- **PHILLIPINES:** --> SINGAPORE
- **POLAND:** ELITE SP. ZO.O., Warsaw
- **PORTUGAL:** PRODULAB LDA., Lisbon
- **SAUDI ARABIA:** CIAME MEDICAL DIVISION, Jeddah
- **SINGAPORE:** SURGIPTRO PRIVATE LIMITED
- **SPAIN:** BIOGAL S.A., Vigo
- **SWEDEN:** PREISLER INSTRUMENT AB, Lund
- **SYRIA:** KINDA COMMERCIAL COMPANY, Damascus
- **TAIWAN:** CLINICO INC., Junghe City, Taipei
- **THAILAND:** PS PROSEARCH COMPANY LTD., Bangkok
- **TUNESIA:** OPHTHALMOCONSULT, Tunis
- **USA:** VOLKER INSTRUMENTS, Goleta (CA)
- **VIETNAM:** BMS CO. LTD., Hanoi



GENERAL TERMS AND CONDITIONS

GENERAL INFORMATION

DESIGN

PMS products are designed and manufactured according to the recognised institute of standards and technology. We reserve the right to modify the instruments illustrated in our catalogue as improved materials, finishes and designs become available.

MATERIAL

All products shown in our catalogue are made of medical grade stainless steel material, unless otherwise indicated.

MEDICAL INFORMATION

The medical information contained in this catalogue is for informational purposes only. It is not intended as instructional material for the use of the instruments, procedures or techniques.

LIABILITY

A great deal of care has been taken during the development of this catalogue. However, we are not liable for the accuracy, completeness and up-to-dateness of the technical and medical information given.



SYMBOL

This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the catalogue.

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CATALOGUE

This catalogue has been completed and printed in June 2008. It is our exclusive property. In case of misuse, we reserve the right to recall all copies of this catalogue in your possession.

TUTTlingen, June 2008
PMS GmbH

PRICES

Our prices are to be understood in EURO, ex works Tuttlingen, Germany, excluding packing, delivery charges and insurance. Prices in the price list are for one unit, unless otherwise stated. Prices may be changed without prior notice.

PAYMENT

Invoices are payable net 30 days of invoice date.

DELIVERY

From stock or according to order confirmation. Partial shipments must be permitted. Delayed deliveries do not entitle the buyer to claims.

RETENTION OF TITLE

The goods delivered by us remain our property until they have been fully paid. This also includes all goods supplied previously or at a later date.

WARRANTY

Our warranty is valid world wide and for life from date of purchase. It covers any defects in material and craftsmanship. Damage resulting from inexpert use and/or misuse with regard to handling, cleaning, sterilisation and storage does not fall under this warranty.

COMPLAINTS

Any complaints should be made in writing within 30 days upon receipt of goods. Any product which appears unsatisfactory in material and craftsmanship will be repaired or replaced free of charge.

RETURN GOODS POLICY

Returned items should be:

- in perfect condition
- never have been used
- boxes should be complete.

Returns are subject to a 20% restocking charge. Product returns will be accepted within 90 days from date of shipment. NOTE: No return will be accepted without authorisation.

PLACE OF PERFORMANCE

The place of performance for shipment and payment as well as the court of jurisdiction is Tuttlingen.

APPLICABLE LAW
German law only.



MATERIAL INFORMATION

STAINLESS STEEL

The material used for most surgical instruments today is stainless steel. Stainless steel is an alloy, consisting of various elements which make it extremely resistant to staining and corrosion. Despite the multitude of papers, articles, and research reports on this material, the misconception that “stainless” will not stain or corrode still lingers. Although it is strong, durable, aesthetically appealing, and ranks high among corrosion-resistant metals, stainless steel can and will corrode.

Of the many different types of stainless steel, those used for surgical instruments generally fall into two basic categories:

300 Series Steel

(austenitic) contains no carbon and is considered the most stain-resistant of all steels. However, because it doesn't contain carbon, it can't be hardened. In ophthalmology, it is typically used for making eye speculae and handles for instruments, such as hooks, retractors and knives.

400 Series Steel

(martensitic) contains a small percentage of carbon and thus can be hardened. The percentage of carbon content determines its hardness, the more carbon, the higher the attainable hardness. Steels with a lower percentage of carbon are typically used for making forceps, needle holders and haemostats. Steels with a higher percentage of carbon are used for scissors and cutting instruments.

TITANIUM

is a natural complement to stainless steel. It is stronger, more durable and offers the following features:

- High strength
- Non toxic
- Non magnetic
- Non corrosive
- Non-glare, blue finish
- Tungsten carbide coated tips
- Can be sterilised by all known methods





MATERIAL INFORMATION

1. SELECTION AND TESTING OF MATERIAL

To meet the rigorous demands of the medical industry utmost care is given to the selection of the proper material, which is an essential prerequisite for quality and safety. Comprehensive analytical examinations and inspections of the selected materials are carried out in metallurgical test laboratories.

2. PROCESS CONTROLS

After PMS craftsmen shape stainless steel into semi-formed instruments, highly skilled instrument makers grind, file and shape each instrument by hand into the finished form. At every stage the new instrument is matched carefully to the precise specifications to avoid any deviations in regard to structure of material, true measurements, function and surface finish.

3. HEAT TREATMENT

Surgical instruments require special heat treatment for hardening. Thus, tempering furnaces are used to control the elasticity, resistance to fracture, high cutting ability, and corrosion-resistant quality.

4. SURFACE FINISH

After initial polishing, instruments are returned to the instrument maker for inspection. Then, they are exposed to an electro-polishing process which removes the loose iron and reseals the surface. This process greatly enhances the ability of the instrument surface to resist corrosion.

5. QUALITY CONTROL

A final quality control is carried out prior to packaging the instruments. Under the microscope the following is inspected: Exact product duplication, true to size, surface finish and function. This attention to detail and care assures the finest quality products and contributes to the PMS tradition of excellence and affordable quality.

Quality counts!

MATERIAL INFORMATION



PROPER CARE AND MAINTENANCE

As a manufacturer of surgical products, we often receive inquiries from customers asking for information on the proper care of instruments. These questions encompass decontamination, cleaning methods, drying, lubrication, inspection, sterilisation and storage. Described here are basic informations regarding the care and maintenance procedures necessary in the hospital to help insure a longer, more trouble-free life for your valuable tools.



THE BASICS AT A GLANCE

- Always inspect, clean, rinse and lubricate brand-new surgical instruments prior to the first sterilisation.
- Do not allow blood, tissue, cellular debris or saline to dry on the instruments.
- Always use a demineralised or distilled water for the last cleaning process.
- Remember that instruments cleaned with BSS without thorough rinsing thereafter, will start corroding in the autoclave.
- Use a soft brush to clean handles and nothing rougher than facial tissue for the tips of the instruments.
- If ultrasonic cleaning is practised, do not clean by this method for more than 3 minutes and use only low-powered cleaners.
- Dry the instrument carefully by using a dust-free cloth or a hot-air blast before storing them.
- Lubricate the joints and locking devices after cleaning.
- Store and sterilise instruments in a protective tray.
- Autoclave instruments. The temperature should not exceed 273°F / 134°C.

AND ALWAYS REMEMBER:

HANDLE YOUR INSTRUMENTS WITH TENDER LOVING CARE

Everything you need to know about the proper care and maintenance of micro surgical instruments please contact:

www.A-K-I.org



IMPROPER CARE AND MAINTENANCE

Fretting corrosion is due to lack of sufficient lubrication agents.

Encrusted and brownish-red contamination layers on surface are due to insufficient cleaning.

Microsurgical instruments are subject to extreme wear. Therefore, inspect them regularly and replace, if necessary.

Chloride induced pitting. Pitting can only be avoided if instruments are cleaned immediately after use.

Worn, corroded, deformed or otherwise damaged instruments must be sorted out and discarded.

Discolourations on Barraquer Iris Scissors appear because of poor quality water used for cleaning and/or autoclaving.

Faulty instruments returned for repair must be cleaned and sterilised by the hospital prior to despatch in order to avoid contamination.

Stress corrosion cracking. In order to avoid such damage all instruments should be kept in an open position during the complete cleaning phase.

The processing and sterilisation of the instruments remains exclusively your responsibility.

Water spots are due to an excessively high concentration of minerals in the water.

PMS shall not be liable for any damage arising from the use of the device.

Contact corrosion is due to preparation of instruments on a brass rack.



BUREAU VERITAS
Certification



BUREAU VERITAS
Certification



Certificate
for

Certificate
for

**PMS Präzisions
Spezialitäten**
78532 Tuttlingen

**PMS Präzisions Medizinische
Spezialitäten**
78532 Tuttlingen / Deutschland

Bureau Veritas Certification hereby confirms that the management system of the above-mentioned organisation has been assessed and complies with the requirements set out in the following standards / regulations.

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Standards/Regulations:

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**SN EN ISO 9001 : 2000
SN EN ISO 13485 : 2003**

**SN EN ISO 9001 : 2000
SN EN ISO 13485 : 2003**

The management system comprises:

The management system comprises:

Sales of special medical instruments (Group I)

Sales of special medical instruments (Group I)

Date of initial certification: **20.08.1998**

20.08.1998

Valid until:

211048

211048

Date:

22.10.2007



BUREAU VERITAS
Certification



Certificate
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**SN EN ISO 9001 : 2000
SN EN ISO 13485 : 2003**

The management system comprises:

Sales of special medical instruments (Group I)

Date of initial certification: **20.08.1998**

The requirements of the standards/regulations must be complied with throughout the period of validity of this certificate. This will be ensured through regular monitoring by Bureau Veritas Certification.

Date of certification: **16.09.2007** Valid until: **16.09.2010**

Bureau Veritas Certification will provide information on the validity of this certificate on request at any time. Additional information on the management system and the area of applicability should be obtained from the organisation itself.

Certificate number: **211048** Date: **22.10.2007**

Bureau Veritas Certification (Switzerland) AG,
Grossschmitten 25, CH-8104 Wetzikon ZH





KONFORMITÄTSERKLÄRUNG

Wir, die Firma

PMS
Präzisions Medizinische Spezialitäten GmbH
 Kreuzstraße 5
 78532 Tuttlingen - Deutschland

erklären in alleiniger Verantwortung, dass
 die von uns gelieferten wiederverwend-
 baren chirurgischen Instrumente der
 Klasse I mit den folgenden Normen /
 Regelwerken

SN EN ISO 9001 : 2000 /
 SN EN ISO 13485 : 2003

und der Richtlinie

93/42/EWG des Rates
 vom 14. Juni 1993

über
 Medizinprodukte

übereinstimmen.



DECLARATION OF CONFORMITY

We, the company

PMS
Precision Medical Specialities GmbH
 Kreuzstraße 5
 78532 Tuttlingen - Germany

declare under our sole responsibility, that our reusable surgical
 instruments of Class I are in conformity with the following standards/
 regulations

SN EN ISO 9001 : 2000 / SN EN ISO 13485 : 2003

and guideline according to

Directive 93/42/EEC from June 14th, 1993
 on medical products



DICHIARAZIONE DI CONFORMITÀ

La sottoscritta Azienda

PMS
**Präzisions Medizinische
 Spezialitäten GmbH**
 Kreuzstraße 5
 78532 Tuttlingen - Germania

dichiara sotto la propria e sola responsabilità
 che i propri strument chirurgici riutilizzabili di
 Classe I sono conformi ai seguenti standard/norme

SN EN ISO 9001 : 2000 / SN EN ISO 13485 : 2003

ed alle linee guida della

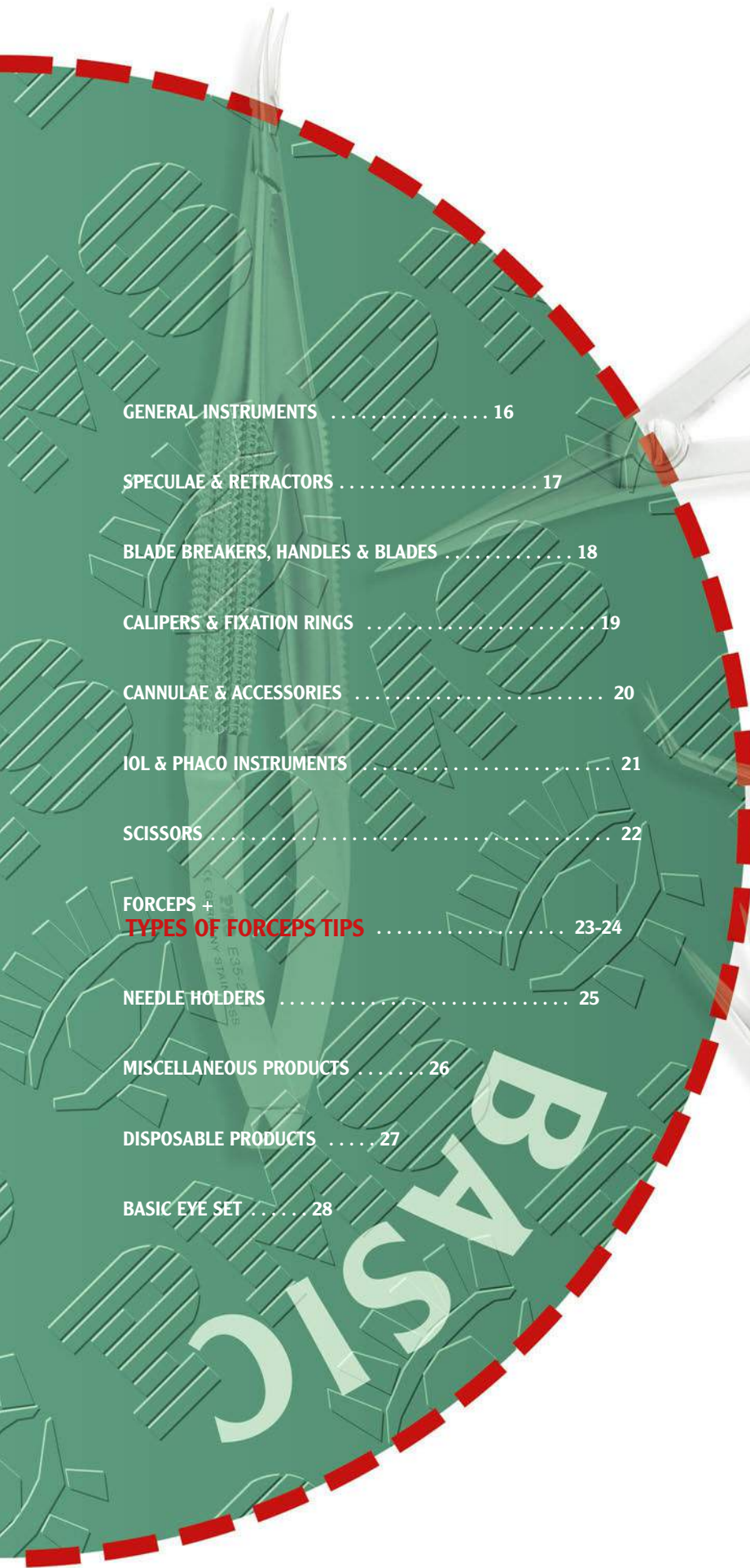
Direttiva 93/42/EEC del 14 giugno 1993 sui prodotti medicali.



PMS



BASIC



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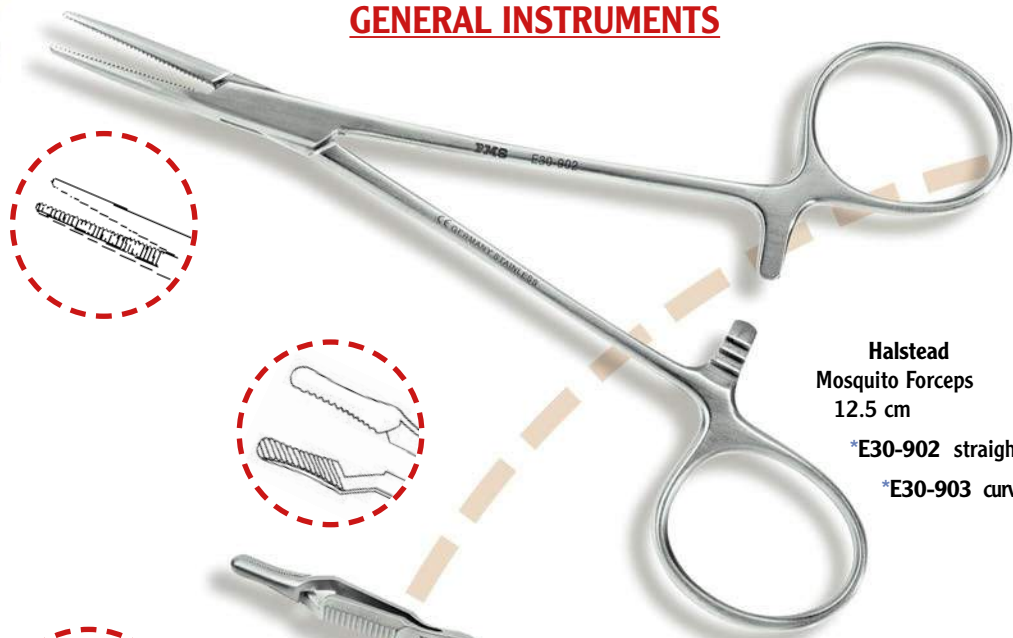
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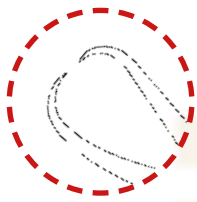


GENERAL INSTRUMENTS



**Halstead
Mosquito Forceps**
12.5 cm

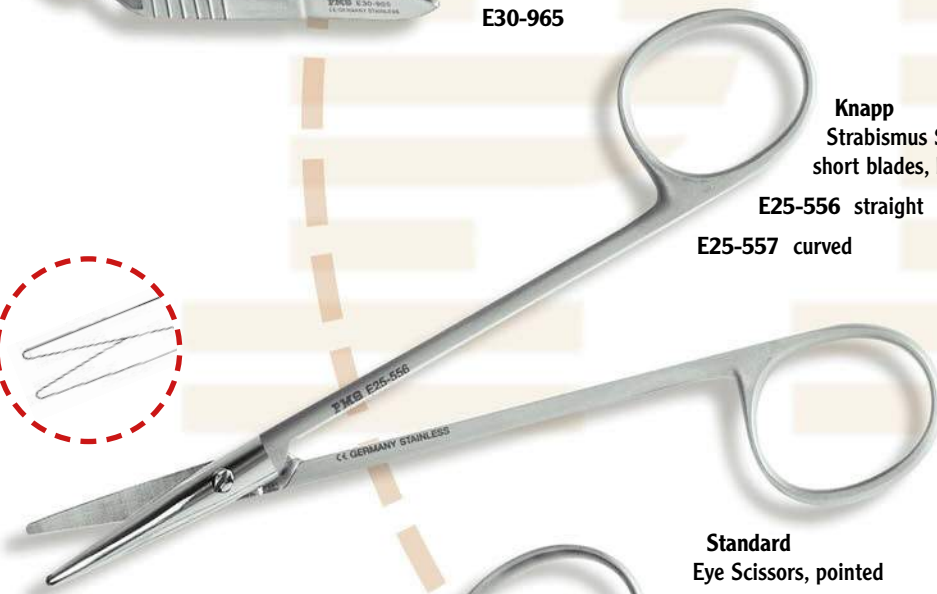
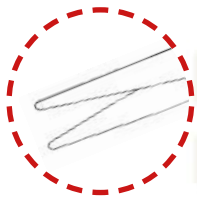
- *E30-902 straight
- *E30-903 curved



**Dieffenbach
Serrefine, 3.5 cm**
E30-934 straight
E30-935 curved

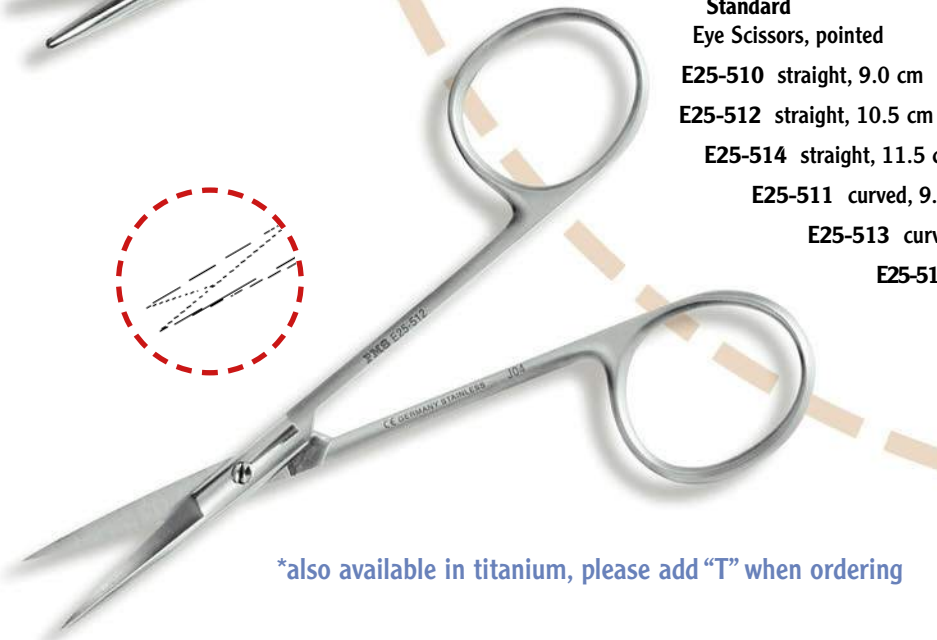
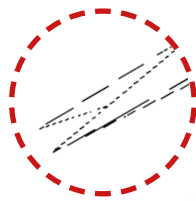


**Baby Jones
Towel Clamp, 5.5 cm**
E30-965



**Knapp
Strabismus Scissors**
short blades, blunt, 12.0 cm

- E25-556 straight
- E25-557 curved



**Standard
Eye Scissors, pointed**

- E25-510 straight, 9.0 cm
- E25-512 straight, 10.5 cm
- E25-514 straight, 11.5 cm
- E25-511 curved, 9.0 cm
- E25-513 curved, 10.5 cm
- E25-515 curved, 11.5 cm

*also available in titanium, please add "T" when ordering



SPECULAE & RETRACTORS

BASIC EYE INSTRUMENTS

**Barraquer
Wire Speculum**

E40-011 adult size

E40-012 child size

E40-013 infant size

E40-014 premature size

**Kratz-Barraquer
Wire Speculum**

E40-031 adult size

E40-032 child size

E40-033 adult size,
heavy wire model

Desmarres

Lid Retractor, 14.0 cm

*E40-110 #0 11 mm blade

*E40-111 #1 13 mm blade

E40-112 #2 15 mm blade

Conway

pediatric size, 8 mm blade

*E40-108

Castroviejo

Universal Eye Speculum

fenestrated blades, 9.0 cm

E40-078 medium, 16 mm

E40-079 small, 14 mm

Fishkind

Phaco Eye Speculum
open blades, 8.5 cm

E40-080

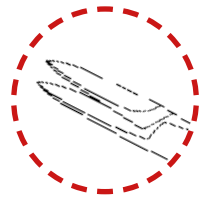
for use with Phaco
or I/A tips

*also available on round titanium handle, please add "T" when ordering



BLADE BREAKER, HANDLES & BLADES

BASIC EYE INSTRUMENTS



Razor Blade
easy to break,
stainless steel,
non-sterile,
(box of 10)

E35-001



Troutman-Chris
Blade Breaker & Holder
5.5 mm dia. x 9.5 cm long handle
straight jaws with concave/
convex inside surfaces

***E35-010**



Chuck Handle
(for miniature edged blades)

- *E10-003K #3K, 10.0 cm**
- *E10-003KM #3KM, 7.5 cm**



Blade Collet
***E10-003BC**



Miniature Edged Blades
surgical stainless steel,
single use, sterile (box of 10)

- E10-064 #64**
- E10-065 #65**
- E10-067 #67**
- E10-069 #69**

**for precise
microsurgical incisions**

**also available in titanium, please add "T" when ordering*

CALIPER & FIXATION RINGS

PMS

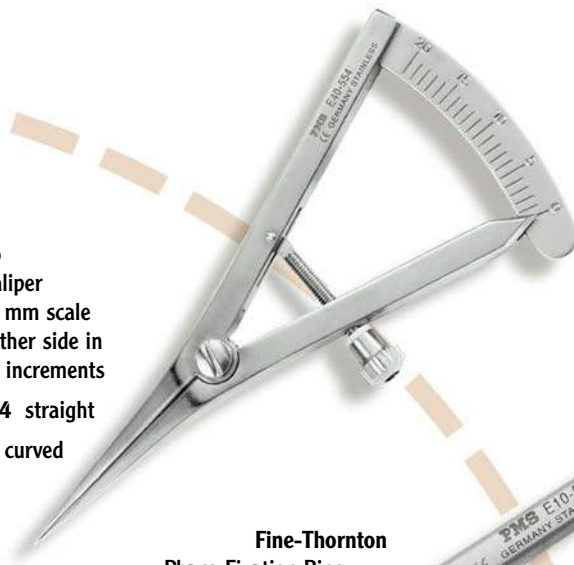


Castroviejo

Eye Caliper
0-20 mm scale
on either side in
1 mm increments

*E40-554 straight

E40-555 curved



Fine-Thornton

Phaco Fixation Ring

3/4 open swivel ring,
with multiple teeth, 13.5 cm

*E10-513 13 mm ID
for clear cornea incision

E10-516 16 mm ID
for scleral tunnel incision



Schocket

Scleral Depressor

with pocket clip, 13.5 cm

*E40-613



Flieringa

Scleral Fixation Ring

E40-628 Set of 8 sizes

E40-614 14 mm dia.

E40-615 15 mm dia.

E40-616 16 mm dia.

E40-617 17 mm dia.

E40-618 18 mm dia.

E40-619 19 mm dia.

E40-620 20 mm dia.

E40-622 22 mm dia.

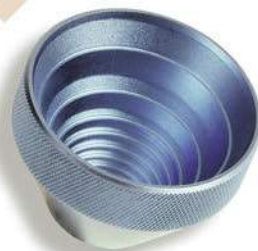


Maloney

Astigmatic Keratometer

E10-690T

for qualitative evaluation
of astigmatism



*also available in titanium, please add "T" when ordering

BASIC EYE INSTRUMENTS



CANNULAE & ACCESSORIES



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 mm x 3 mm long screw threaded tip
attached to 180 mm silicone tubing with LL cone
E20-020ST



Rycroft
Air Injection Cannula
20 mm tube, angled 5 mm
E20-030 30GA/0.3 mm
E20-031 27GA/0.4 mm
E20-032 25GA/0.5 mm

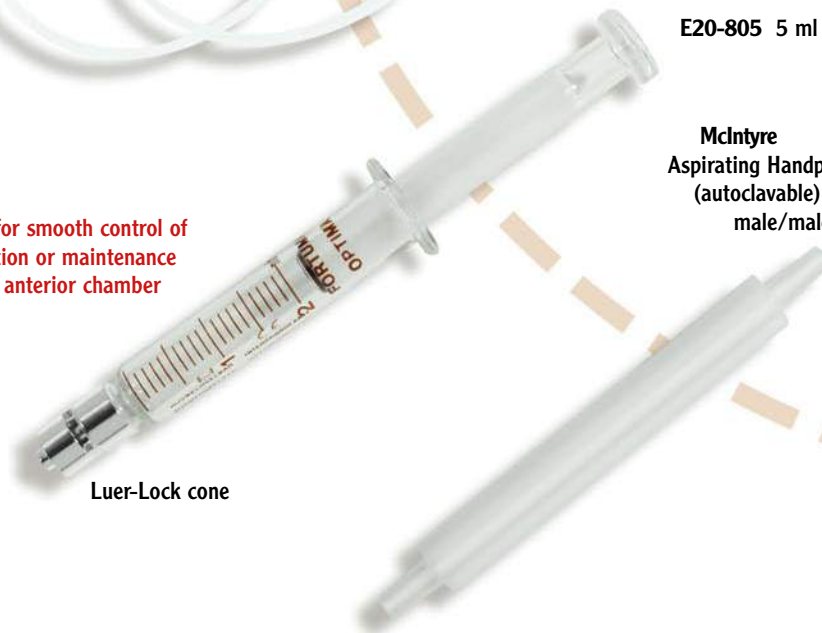


Simcoe
Double I and A Cannula
23/23GA x 15 mm long tube, 0.3 mm aspirating port
attached to 150 mm silicone tubing with LL adaptor
E20-300 original model
E20-301 reverse model

All Glass Syringe E20-801 1 ml
E20-802 2 ml
E20-805 5 ml

McIntyre
Aspirating Handpiece
(autoclavable) Teflon, 7.5 cm
male/male Luer connectors
E20-881

ideal for smooth control of irrigation or maintenance of the anterior chamber

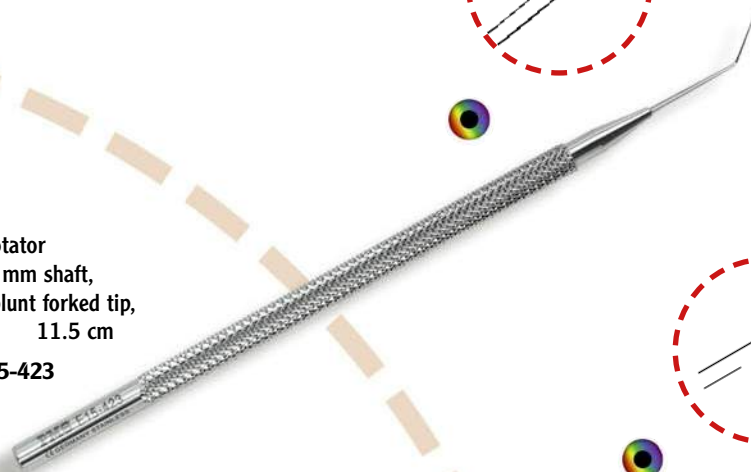


Luer-Lock cone

IOL & PHACO INSTRUMENTS



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



Sinsky II
IOL Manipulating Hook
0.2 mm dia. blunt tip,
12.0 cm
*E15-552 straight
*E15-553 angled



Lester
Lens Pusher
delicate "hour glass" style tip,
12.0 cm
*E15-500 straight
*E15-501 angled



Kuglen
Lens Manipulator
and Iris Hook
"push-pull" model,
angled 10 mm shaft,
ball-like tip, 12.0 cm



*E15-565

Nagahara
Phaco Chopper
angled 10 mm shaft,
"wedge-shaped" blade,
11.5 cm
*E15-656 60° cutting edge
*E15-659 90° cutting edge



introduced in 1975 still
as popular as ever



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

*also available on titanium handle, see page 34-36

BASIC EYE INSTRUMENTS

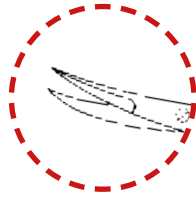


SCISSORS



**Barraquer
Iris Scissors**
7 mm blades,
blunt tips, 5.5 cm

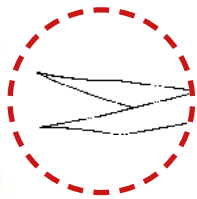
E25-200



Micro Iris Scissors
curved, small blades,
10.0 cm

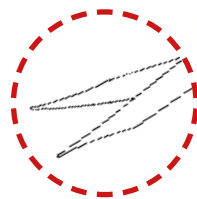
*E25-251 sharp tips

*E25-253 blunt tips



**Westcott
Stitch Scissors**
curved, large blades,
sharp tips, 11.5 cm

*E25-315



**the working horse
of cataract surgery**

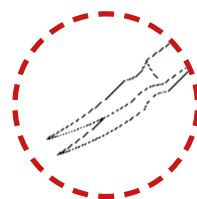


**Westcott
Tenotomy Scissors**
curved, large blades,
blunt tips, 11.5 cm

E25-334T right (shown)

E25-334 right

E25-335 left



**Vannas
Capsulotomy Scissors**
5 mm blades, 8.2 cm

E25-400 straight, sharp

E25-401 curved, sharp

E25-402 straight, blunt

E25-403 curved, blunt

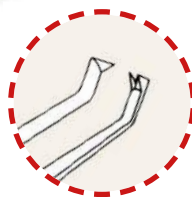
all time favourite

*also available on titanium handle, please add "T" when ordering

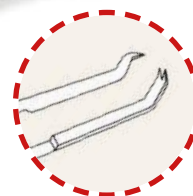


FORCEPS

TYPES OF FORCEPS TIPS



1x2 teeth 90°
(Bonn style)



1x2 teeth 45°
(Castroviejo style)

Barraquer-Colibri
Corneal Utility Forceps
1x2 teeth 90°, 0.12 mm,
without tying platform, 7.5 cm

*E30-051

Harms-Colibri
Corneal Suture Forceps
1x2 teeth 45°, 0.12 mm,
tying platform, 7.5 cm

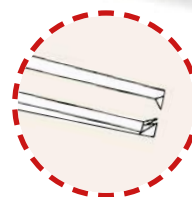
*E30-081

Dressing Forceps
serrated jaws, 10.0 cm
E30-110 0.5 mm wide
E30-114 1.0 mm wide



serrated jaws

Tissue Forceps
toothed jaws, 10.0 cm
E30-120 0.5 mm teeth
E30-124 1.0 mm teeth



toothed jaws

Bishop-Harmon
Dressing & Tissue Forceps
E30-100 criss-cross serrated
E30-103 0.3 mm teeth
E30-106 0.6 mm teeth



criss-cross serrated

*also available in titanium, see page 44

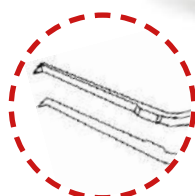
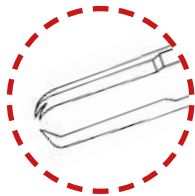
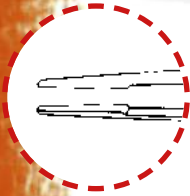
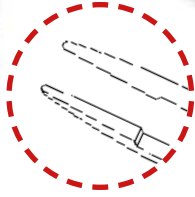
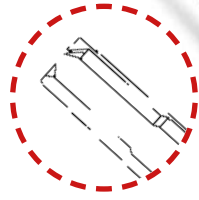


FORCEPS

these forceps are ideal...

...for 11-0 to 8-0 sutures

still the most popular



Bonn
Suturing Forceps
1x2 teeth 90°,
0.12 mm, delicate
4 mm platform
*E30-410 short model,
7.2 cm

*E30-430 long model, 9.5 cm



Harms
Tying Forceps
6 mm platform, 10.0 cm

*E30-422 straight

*E30-423 curved



McPherson
Tying Forceps
5 mm platform, 10.5 cm

*E30-460 straight

*E30-461 angled



Castroviejo (standard handle)
Suturing Forceps
1x2 teeth 45°, fine
tying platform, 10.0 cm

*E30-431 0.12 mm

E30-432 0.30 mm

*E30-433 0.50 mm



Utrata
Capsulorhexis Forceps
extra thin 11 mm shanks,
triangular, sharp tips, 10.5 cm

*E30-581S flat handle

*E30-583S knurled handle

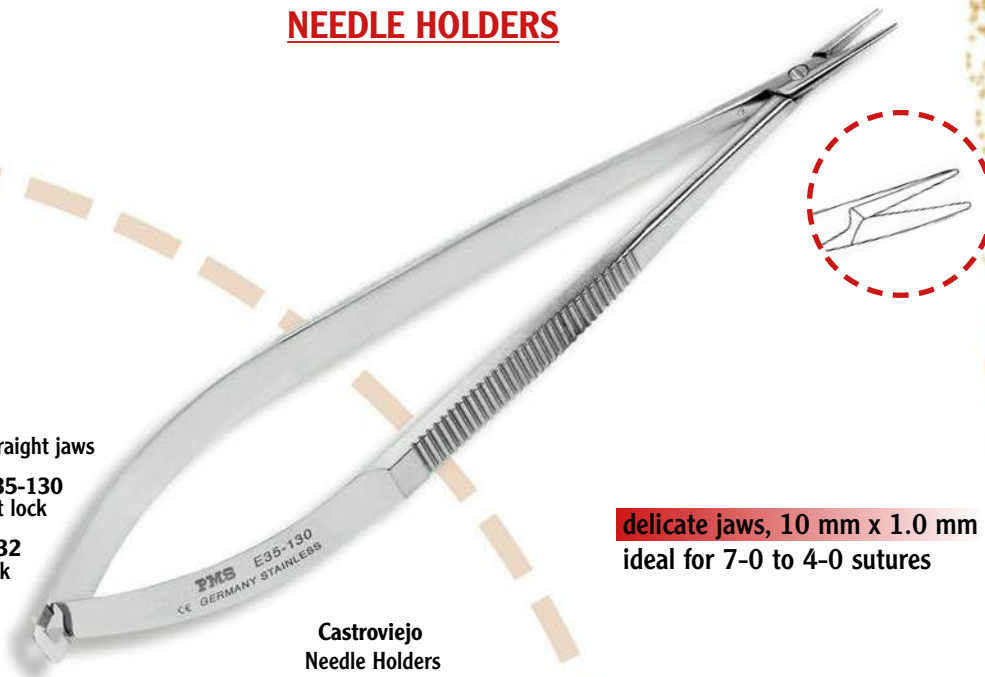
*also available in titanium, see page 41,43,45

NEEDLE HOLDERS

PMS



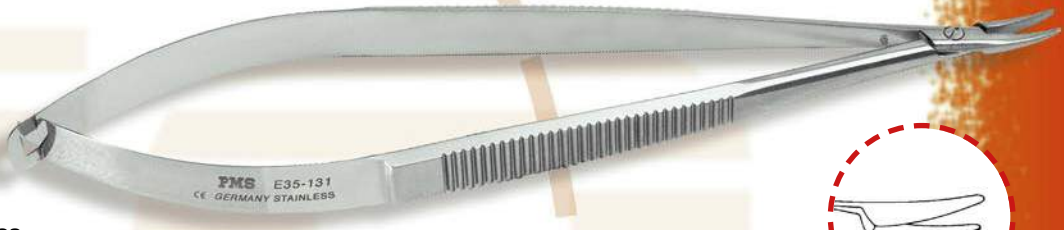
straight jaws
E35-130
without lock
*E35-132
with lock



**Castroviejo
Needle Holders**
14.0 cm

delicate jaws, 10 mm x 1.0 mm
ideal for 7-0 to 4-0 sutures

curved jaws
E35-131
without lock
*E35-133
with lock



straight jaws
E35-230
without lock
E35-232
with lock



**Barraquer
Needle Holders**
13.5 cm

delicate jaws, 10 mm x 0.75 mm
ideal for 9-0 to 6-0 sutures

curved jaws
*E35-231
without lock
*E35-233
with lock



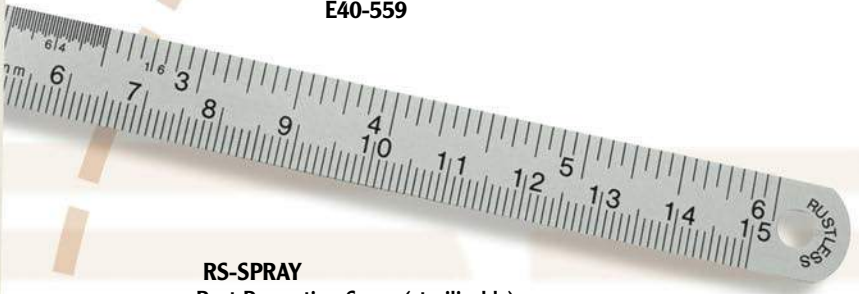
*also available in titanium, please add "T" when ordering



MISCELLANEOUS PRODUCTS



Protector
for Lens Hooks with
E15-002 straight shaft
E15-003 angled shaft



Metal Ruler
flexible, graduated in mm & inches
E40-559

RS-SPRAY
Rust Prevention Spray (sterilisable)
for stainless steel instruments,
spray box of 200 ml
No. 2820

Ideal to prevent rusting of stainless steel surgical instruments during and after sterilisation. Applicable for all methods of sterilisation. Autoclave max. 134°C and hot air sterilizers max. 180°C.

Type	Id. (mm)	Wd. (mm)	Od. (mm)
Product No.			
SIL-00301	0,3	0,1	0,5
SIL-00302	0,3	0,2	0,7
SIL-00502	0,5	0,2	0,9
SIL-00503	0,5	0,3	1,1
SIL-00504	0,5	0,4	1,3
SIL-00505	0,5	0,5	1,5
SIL-00701	0,7	0,1	0,9
SIL-00702	0,7	0,2	1,1
SIL-00703	0,7	0,3	1,3
SIL-00705	0,7	0,5	1,7
SIL-00804	0,8	0,4	1,6
SIL-01002	1,0	0,2	1,4
SIL-01004	1,0	0,4	1,8
SIL-01005	1,0	0,5	2,0
SIL-01010	1,0	1,0	3,0
SIL-01204	1,2	0,4	2,0
SIL-01502	1,5	0,2	1,9
SIL-01503	1,5	0,3	2,1
SIL-01504	1,5	0,4	2,3
SIL-01505	1,5	0,5	2,5
SIL-01507	1,5	0,7	2,9
SIL-01510	1,5	1,0	3,5
SIL-02005	2,0	0,5	3,0
SIL-02007	2,0	0,7	2,9
SIL-02010	2,0	1,0	4,0
SIL-02505	2,5	0,5	3,5
SIL-02510	2,5	1,0	4,5

Silicone Tubing (VMQ Quality)
autoclavable up to max. 140°C,
available in coils of 100 cm

SIL-00302 for E40-900 and E40-910

SIL-00804 for E20-015 to E20-019

SIL-01004 E20-300 to E20-319 and Lieberman style aspirating speculae (side connectors)

SIL-01204 for E20-321 and E20-323

SIL-01504 for E20-751 to E20-753 and Lieberman aspirating speculae (main connectors)

SIL-02005 for E20-741, E20-754 to E20-757

Further sizes are available by request and in coils of 25 metres.



DISPOSABLE PRODUCTS



Sugi®
Cellulose Eye Spears
white plastic handle,
single use, sterile
30601 box of 200
(20 pouches of 10 pcs)

highly absorbent sponge for removal of blood,
fluids and cellular debris within the operating field

Sugi®
Cellulose Eye Points
single use, sterile
31602 box of 200 (20 pouches of 10 pcs)
31603 box of 500 (bulk, non-sterile)

Pro-ophta®
Ocular Sticks
5 mm dia. x 66 mm,
single use, sterile
16516 box of 400 (20 pouches of 20 pcs)
16515 box of 500 (bulk, non-sterile)

Insight®
Universal Eye Shield
single, sterile blister packed (box of 100)
ES/100/C

dual fitting to either eye
with ventilation holes for vision

Universal Eye Shield
single, sterile blister packed (box of 100)
ES/100/W



crystal clear K Resine material

Latex free

white polypropylene material

BASIC EYE INSTRUMENTS



E40-086



E30-232



E30-532



E40-771



E40-777

- E20-001 AC Irrigator System, page 20
- E20-031 Air Injection Cannula, page 20
- E30-965 Schaedel Towel Clamp, page 16
- E30-902 Halstead Artery Forceps, page 16
- E30-934 Dieffenbach Serrefine, page 16
- E40-011 Barraquer Eye Speculum, page 17
- E40-086 Lancaster Universal Eye Speculum**
- E10-014 Sapphire Knife 45° blade, page 63
- E35-001 Razor Blade (box of 10), page 18
- E35-010 Blade Breaker & Holder, page 18
- E25-200 DeWecker Iris Scissors, page 22
- E25-315 Westcott Stitch Scissors, page 22
- E25-334 Westcott Tenotomy Scissors, page 22
- E25-401 Vannas Capsulotomy Scissors, page 22
- E25-512 Standard Eye Scissors, page 16
- E25-556 Knapp Strabismus Scissors, page 16
- E30-051 Barraquer Colibri Forceps, page 23
- E30-106 Bishop-Harmon Tissue Forceps, page 23
- E30-110 Dressing Forceps, straight, page 23
- E30-232 Lester Conjunctival Fixation Forceps**
- E30-431 Castroviejo Suture Forceps, page 24
- E30-432 Castroviejo Suture Forceps, page 24
- E30-460 McPherson Tying Forceps, page 24
- E30-463 Kelman-McPherson Forceps, page 124
- E30-532 Bipolar Forceps "Jewelers" Style**
- E35-231 Barraquer Needle Holder, page 25
- E35-132 Castroviejo Needle Holder, page 25
- E40-111 Desmarres Lid Retractor, page 17
- E40-559 Stainless Steel Ruler, page 26
- E40-554 Castroviejo Eye Caliper, page 19
- E40-613 Schocket Scleral Depressor, page 19
- E40-771 Graefe Strabismus Hook**
- E40-777 Gass Retinal Detachment Hook**
- Schioetz Tonometer, Wash Trays and Sterilising Trays (see section)

PMS



TITANIUM





WHY TITANIUM? 30

SPECIALITY INSTRUMENTS 31

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TYING & LENS HOLDING FORCEPS +
PLATFORM DESIGNS 43

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PMS-ECOLINE® 47

SET 48

TITANIUM





WHY TITANIUM?

Titanium is a natural complement to stainless steel for ophthalmic surgical instruments

- Absolute precision
- High strength
- Non toxic
- Non magnetic
- Non corrosive
- Non-glare, blue finish
- Tungsten carbide coated tips
- Can be sterilised by all known methods

LIGHT WEIGHT

Titanium is 40% lighter than stainless steel. This is very important for surgeon's hands as it provides extra comfort and control that reduces fatigue during long operations under the microscope.

ANTIMAGNETIC

Titanium is non-toxic and non-magnetic. In contrast to stainless steel, titanium instruments cannot be magnetic. For example, a stainless steel needle will not "stick" to a titanium needle holder.

NO RUST & LONG LIFE

Titanium is highly corrosion resistant. It is stronger and more durable than stainless steel. Still, the life and durability of titanium instruments depend upon the care it receives during use, cleaning, sterilisation and storage.



CARE AND HANDLING TIPS

The following guidelines are given to allow you to optimise the performance and longevity of the instrument.

- Do not allow blood, tissue, cellular debris or saline to dry on the instrument.
- Flush the instrument in distilled water and a neutral pH detergent; avoid any acid based products.
- Inspect the instrument regularly under magnification for cleanliness and damage, replace if necessary.
- Use a soft brush to clean handles and nothing rougher than facial tissue for the tips of the instrument.
- Ultrasonic cleaning may be used where appropriate.
- Store instruments in a protective tray for sterilisation.



single level tray
E45-005

MINITAINER TRAYS

The Minitainer line of small to medium sized trays is specifically designed to help organise and protect delicate instruments during sterilisation, transport and storage.

BENEFITS

- Various sizes help customise procedural sets.
- Soft silicone finger mats (latex free) gently secure instruments and provide ventilation to facilitate drying.
- Clear Radel® lids allow easy identification of instruments.

E45-005 (180x75x18.5 mm)
for 3-5 instruments

E45-015 (267x160x16 mm)
for 10-15 instruments

E45-025 (267x160x35 mm)
double level tray
for 15-25 instruments



**Sapphire and
Diamond Knives**
page 64-69



Vitreoretinal Instruments
page 170-177



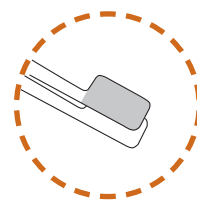
IOL Cutters
page 132-133



Bimanual I/A Systems
page 110-119



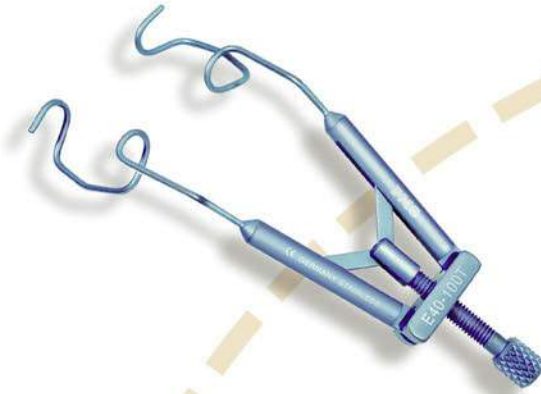
Salz
Nucleus Splitter Forceps
cross-action paddle style jaws,
textured external surfaces,
7.5 cm
E30-562T





EYE SPECULAE

TITANIUM EYE INSTRUMENTS



**Lieberman
Temporal Speculum
E40-100T adult size
E40-100TS child size**



**Lieberman
Nasal Speculum
E40-101T adult size
E40-101TS child size**



**Lieberman
Nasal Speculum
E40-103T adult size
E40-103TS child size**



**Lieberman
Temporal Speculum
E40-104T adult size
E40-104TS child size**

KNIVES, FIXATION RINGS AND CALIPERS

PMS



further sapphire knives are
shown on page 64 to 67

Sapphire
Clear Cornea Knives
0.2 mm thick blades
available in 3 widths:

E10-042 2.8 mm

E10-043 3.0 mm

E10-044 3.2 mm

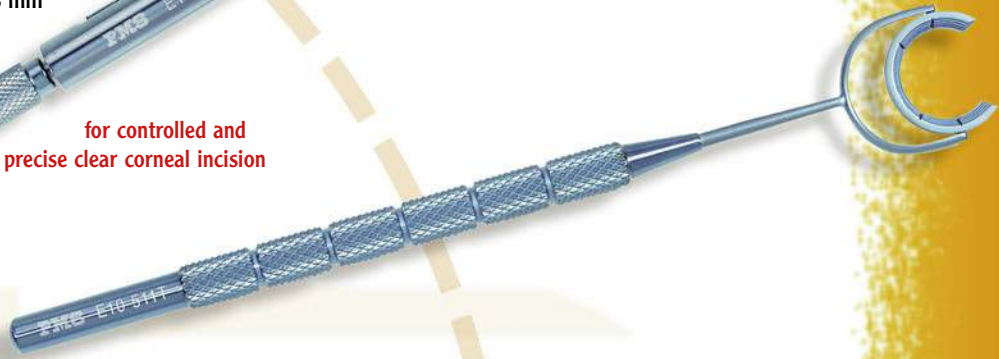


for controlled and
precise clear corneal incision

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 teeth,
13.0 cm

E10-513T 13 mm ID for clear corneal incision

E10-516T 16 mm ID for scleral tunnel incision



Maloney
Astigmatic Keratometer
E10-690T

for qualitative evaluation of astigmatism



Castroviejo
Eye Caliper
double sided scale
in 1 mm increments
E40-552T 0-15 mm
E40-554T 0-20 mm



TITANIUM EYE INSTRUMENTS



NUCLEUS MANIPULATORS

with stainless steel shafts and tips

Micro Nucleus Spatula
vaulted 12 mm shaft,
disc shaped tip, 12.0 cm
E15-400T

ideal for manipulating and rotating the nucleus as well as to push back the iris in case of a small pupil

Koch II Nucleus Spatula, light curved shaft,
duckbill style tip with notches, 12.0 cm
E15-418T

to manipulate and control the nucleus during phaco procedures; the notched tip facilitates nucleus rotation if needed

Jaffe-Bechert Nucleus Rotator
angled 9 mm shaft, blunt forked tip, 12.0 cm
E15-423T

ideal to impale, manipulate and rotate soft and hard nucleus

Drysdale Nucleus Manipulator
angled 10 mm shaft, paddle shaped tip, 12.0 cm
E15-465T

ideal for manipulating tissue, rotating and cracking the nucleus; used by many surgeons for the "Divide and Conquer" technique

"Connor Wand" Nucleus Manipulator
curved, ball-like tip, 12.0 cm
E15-467T

designed to spin, chop and crack the nucleus; ideal to protect the capsule posteriorly, and Iris during Phaco & I/A cortical clean up

also available on coloured aluminium handles, see page 94 and 95

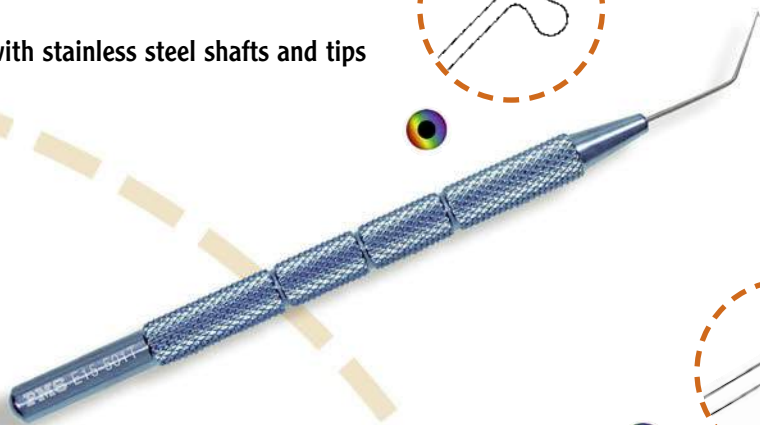
LENS AND IRIS HOOKS

with stainless steel shafts and tips



Lester
Lens Pusher
angled 10 mm shaft, 0.25 mm dia.
hour glass shaped tip, 12.0 cm

E15-501T



Sinsky II
Lens Manipulating Hook
0.2 dia. blunt tip, 12.0 cm

E15-560T straight

E15-561T angled



Rentsch
Lens Manipulator
& Iris Retractor
straight shaft, "boat hook" tip, 12.0 cm

E15-562T



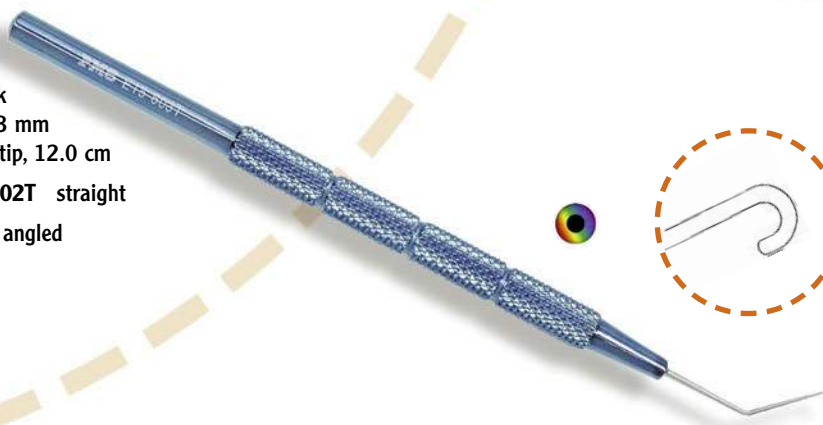
Kuglen
"Push-Pull" Lens
Manipulator & Iris Hook
angled 10 mm shaft,
ball shaped tip, 12.0 cm

E15-565T



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

E15-603T angled



also available on coloured aluminium handles, see page 130 and 131

PMS



TITANIUM EYE INSTRUMENTS



PHACO CHOPPERS

with stainless steel shafts and tips



Fukasaku
Phaco Splitter
and Iris Pusher
wedge shaped
90° inferior
cutting edge,
12.0 cm

E15-653T

for the "Snap & Split" technique; used to crack the nucleus in the central "safe area" and to push back the iris for better visibility



Rosen
Universal Phaco Splitter
wedge shaped 90° inferior
cutting edge, 12.0 cm

E15-655T

designed for the "Phaco Chop" technique; the tip is long enough to penetrate the entire nucleus thickness

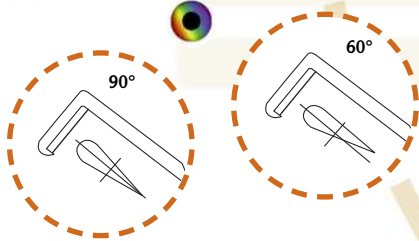


world-wide best seller

Nagahara
Phaco Chopper
wedge shaped tip, 12.0 cm

E15-656T 60° cutting edge
to cut in the same direction as the phaco handpiece

E15-659T 90° cutting edge
to cut toward the side port incision



Seibel
Phaco Chopper
0.5 mm olive tip,
curved 2.2 mm,
12.0 cm

E15-669T

the special wedge shaped, curved blade allows efficient chopping toward the phaco tip, providing effortless separation with maximum safety



also available on coloured aluminium handles, see page 94 and 95

PHACO SPATULAE

PMS



with stainless steel shafts and tips

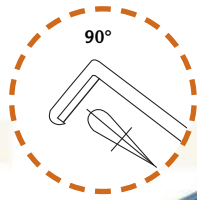
**Rowen
Phaco Spatula
13.0 cm
E15-673T**



combination of a Rosen Phaco Splitter & Bechert Nucleus Rotator



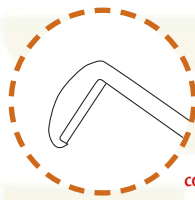
**Nagahara/Sinsky
Phaco Spatula
13.0 cm
E15-675T**



combination of a Nagahara Phaco Chopper & Sinsky IOL Hook



**Masket
Phaco Spatula
13.0 cm
E15-676T**



combination of Rosen Phaco Splitter and round spatula with disc shaped tip

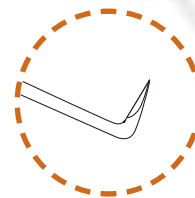
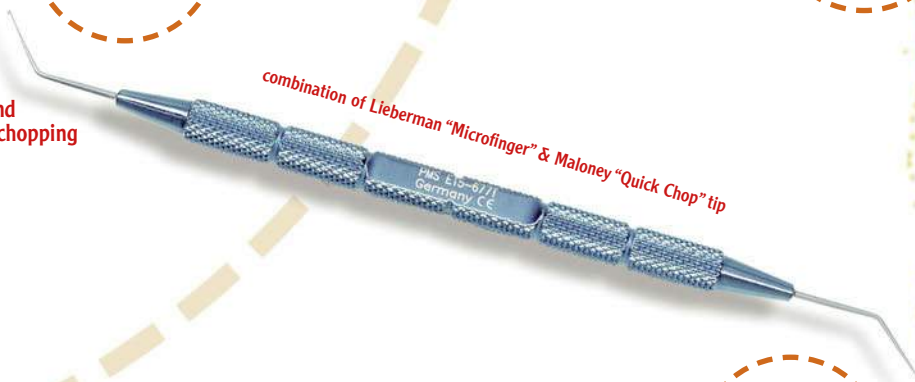


**Chang
Phaco Chopper
13.0 cm
E15-677T**

ideal for vertical and horizontal phaco chopping



combination of Lieberman "Microfinger" & Maloney "Quick Chop" tip

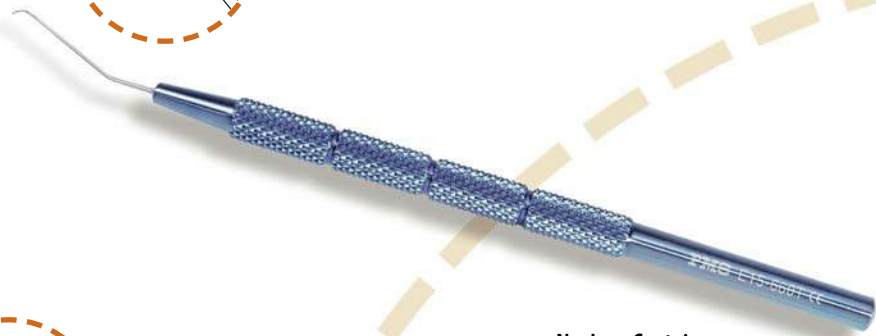


TITANIUM EYE INSTRUMENTS



AKAHOSHI STYLE NUCLEUS SUSTAINERS

with stainless steel shafts and tips



Nucleus Sustainer
microball tip, angled 1.5 mm, 12.0 cm
E15-660T

to reduce the stress on the capsular bag and zonules



Nucleus Sustainer
olive shaped tip, angled 1.9 mm, 12.0 cm
E15-661T

for stable nuclear support during prechopping



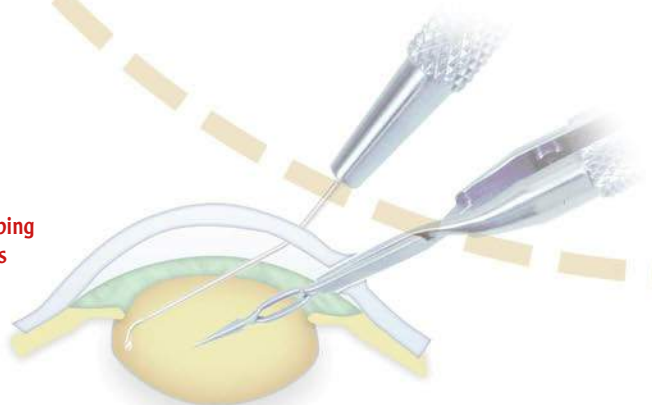
Nucleus Ring Sustainer
1 mm dia. ring, angled 2.5 mm, 12.0 cm
E15-662T

supports the nucleus from posterior side during vertical prechopping



Sharp Prechopper
for very hard nucleus
(grades 4 and 5)
E30-566T straight
E30-567T angled

to support the nucleus during prechopping with the Akahoshi Style Prechoppers for counter prechop technique.

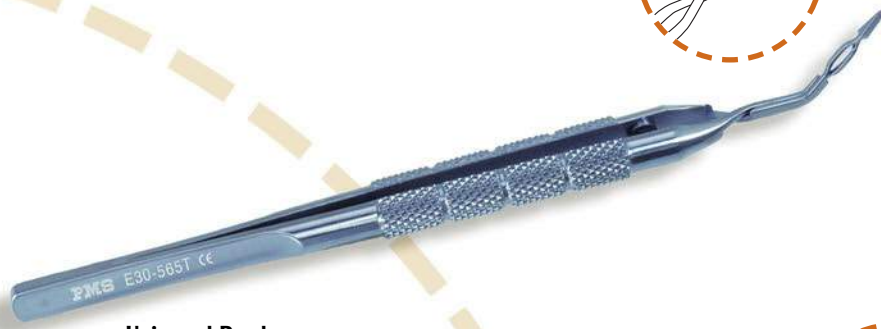


AKAHOSHI STYLE PRECHOPPERS

PMS



for detailed product information,
please refer to page 95



Universal Prechopper
E30-564T straight
E30-565T angled
for medium to hard nucleus



Karate Prechopper
TC textured jaws
E30-568T
for vertical prechop of soft to medium nucleus



Hybrid Prechopper
E30-569T
for initial split and prechopping nucleus



Nucleus Splitter / Completer
E30-572T

for all prechopping
techniques

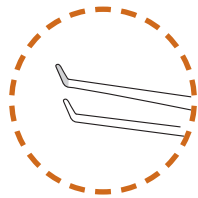
helps to...

- complete the prechopping of a partially prechopped nucleus
- divide the nucleus after grooving for "divide & conquer" technique
- attain nuclear division even if the initial split was not deep enough

TITANIUM EYE INSTRUMENTS



FIXATION FORCEPS

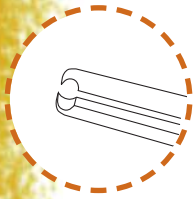


New



Akahoshi Style
Universal Micro Forceps
 angled, blunt 0.35 mm fine tips
 with 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

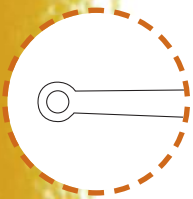


New



Koch
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

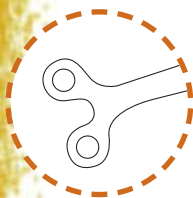


New



Fechtner
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



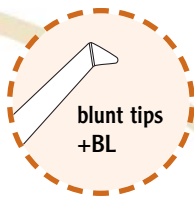
Solish
Conjunctiva Forceps
 ring shaped jaws with
 2 holes of 0.4 mm dia.,
 tying platform, 10.5 cm
E30-242T

CAPSULORHEXIS FORCEPS

PMS



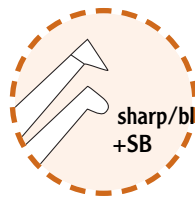
TIP DESIGNS



blunt tips
+BL



sharp tips
+SH



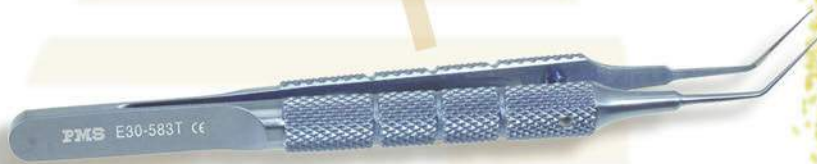
sharp/blunt tips
+SB

triangular jaws with delicate platforms and ultra fine grasping tips

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



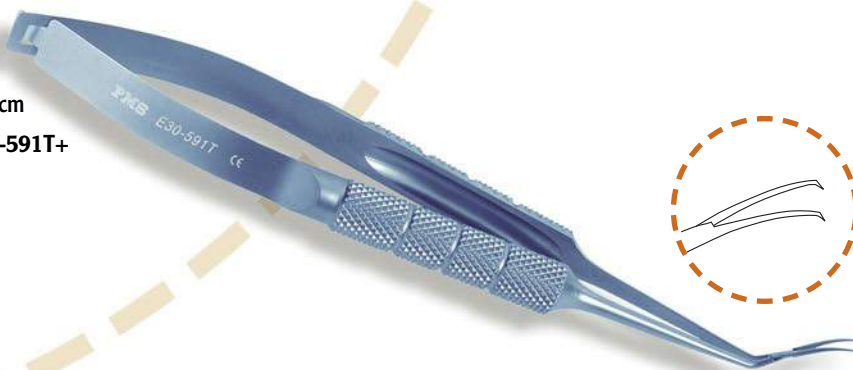
Utrata
Capsulorhexis Forceps
angled 11 mm shanks
10.5 cm
E30-583T+



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



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



+ when ordering please specify tip design: BL=blunt, SH=sharp, SB=sharp/blunt

TITANIUM EYE INSTRUMENTS



FOLDABLE LENS FORCEPS



Buratto Style
Lens Insertion Forceps
 angled 9 mm shanks,
 biconvex jaws,
 10.5 cm
E30-646T



Spaleck Style
Lens Insertion Forceps
 angled 15 mm shanks, biconvex jaws, 11.0 cm
E30-648T



Fine Style
Universal Lens Folder
 angled 8 mm shanks,
 biconvex jaws, 10.5 cm
E30-650T



Ernest-McDonald Style
IOL Insertion Forceps
 cross-action shanks, low
 profile biconvex jaws, 10.5 cm
E30-663T



paddles
 effectively
 pick up lens
 for even folding



Seibel Style
Lens Loader
 angled 12 mm,
 paddle style jaws,
 11.0 cm
E30-667T

TYING & LENS HOLDING FORCEPS

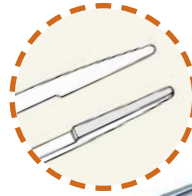
PMS



TITANIUM EYE INSTRUMENTS

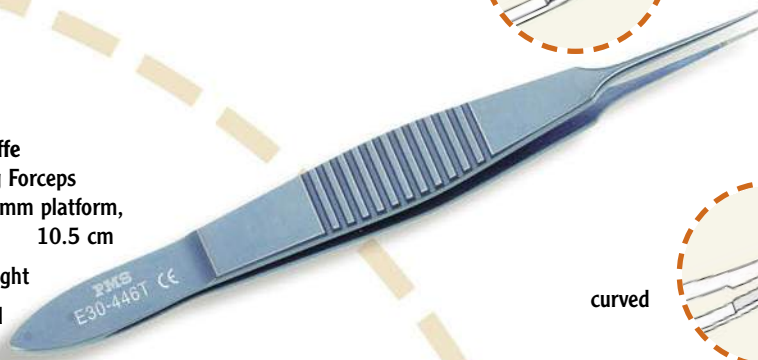
PLATFORM DESIGNS

straight

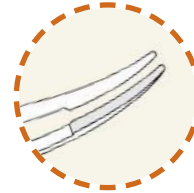


Jaffe
Tying Forceps
4 mm platform,
10.5 cm

E30-446T straight
E30-447T curved



curved

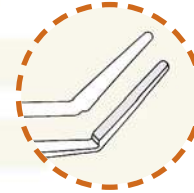


Tennant
Tying Forceps
6 mm platform,
10.5 cm

E30-448T straight
E30-449T curved



short
angled



McPherson
Tying Forceps
6 mm platform,
10.5 cm

E30-460T straight
E30-461T angled



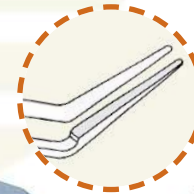
Kelman-McPherson
Lens Holding Forceps,
angled, 8 mm platform,
10.5 cm

E30-463T



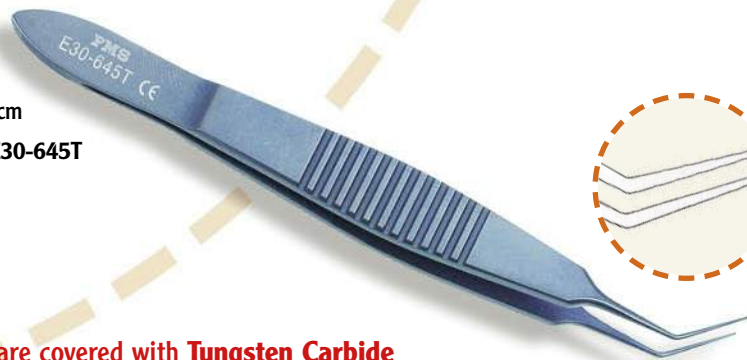
ideal for implanting PMMA IOLs

long
angled

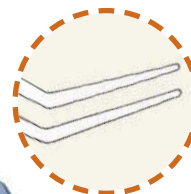


Faulkner
Soft Lens Holding
Forceps, angled
11 mm round jaws,
10.5 cm

E30-645T



long angled,
round jaws



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



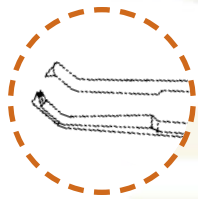
SUTURE TYING FORCEPS

delicate, toothed forceps with tying platforms are ideal for grasping tissue and fine suture tying

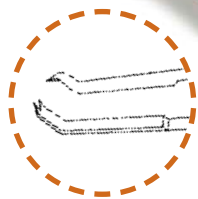
TITANIUM EYE INSTRUMENTS



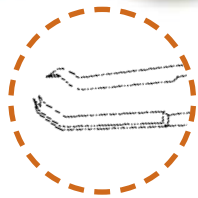
Barraquer-Colibri
Corneal Forceps
1x2 teeth 90°, 7.5 cm,
without platform
E30-051T 0.12 mm
E30-052T 0.20 mm



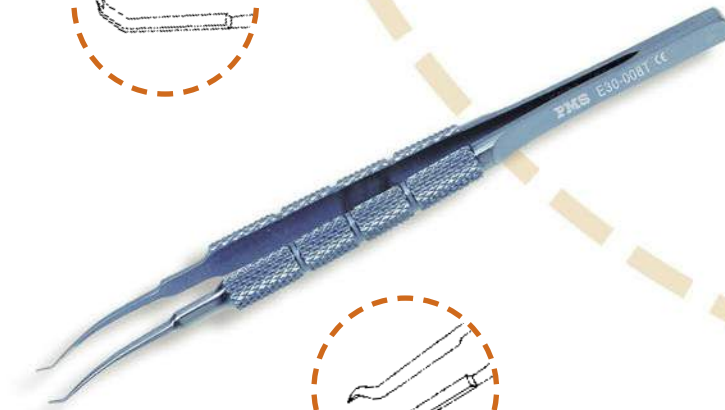
Barraquer-Colibri
Suture Tying Forceps
1x2 teeth 90°, 0.12 mm,
3 mm platform, 7.5 cm
E30-061T



Harms-Colibri
Suture Fixation Forceps
1x2 teeth 45°, 0.12 mm,
3 mm platform, 7.5 cm
E30-081T



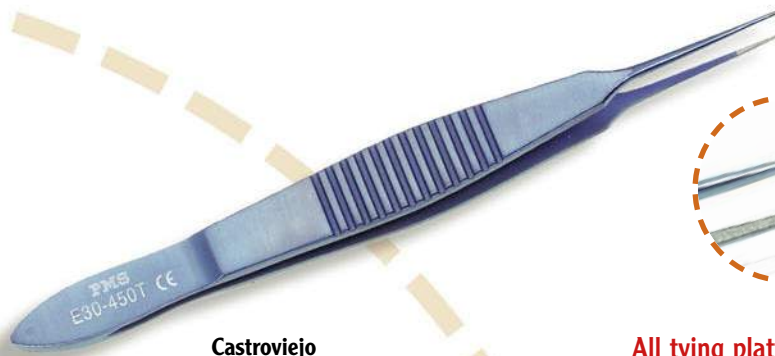
Standard-Colibri
Corneal Fixation Forceps
1x2 teeth 45°, 0.4 mm,
5 mm platform, 7.5 cm
E30-085T



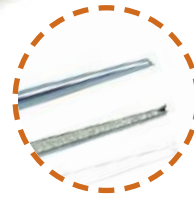
Girard
Corneoscleral Forceps
1x2 teeth 45°, 0.12 mm,
6 mm platform, 10.0 cm
E30-008T

SUTURE TYING FORCEPS

PMS



Castroviejo
Suture Tying Forceps
1x2 teeth 45°, 6 mm platform, 10.5 cm
E30-450T 0.12 mm
E30-451T 0.30 mm



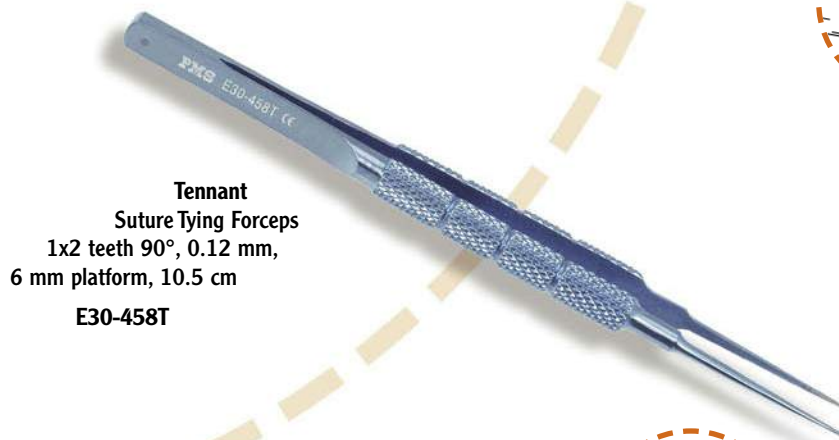
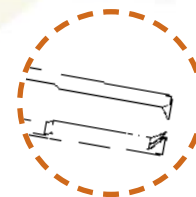
All tying platforms are covered
with **Tungsten Carbide**.



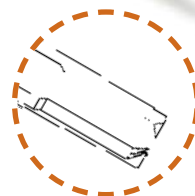
Girard
Corneoscleral Forceps
1x2 teeth 45°, 0.12 mm,
6 mm platform, 10.5 cm
E30-006T



Jaffe (Bonn)
Suture Tying Forceps
1x2 teeth 90°, 0.12 mm,
6 mm platform, 10.5 cm
E30-456T



Tennant
Suture Tying Forceps
1x2 teeth 90°, 0.12 mm,
6 mm platform, 10.5 cm
E30-458T



TITANIUM EYE INSTRUMENTS



NEEDLE HOLDERS

All Titanium Needle Holders have **Tungsten Carbide** covered jaws for firm, atraumatic grip and handling of delicate sutures and tissues.

ideal for 11-0 to 8-0 sutures



Barraquer
Needle Holder
very fine jaws,
9 mm x 0.4 mm,
12.5 cm

*E35-251T curved, without lock

*E35-253T curved, with lock



ideal for 11-0 to 8-0 sutures



Anis
Needle Holder
extra fine jaws,
9 mm x 0.3 mm,
12.5 cm

*E35-271T curved, without lock

*E35-273T curved, with lock



ideal for 11-0 to 7-0 sutures



Barraquer
Needle Holder
(Catford Model)
short, fine jaws,
6 mm x 0.4 mm,
12.5 cm

*E35-301T curved, without lock

*E35-303T curved, with lock

Castroviejo
Needle Holder
delicate jaws, 11 mm x 1.0 mm, 14.0 cm

*E35-132T
straight, with lock

*E35-133T
curved, with lock

ideal for 7-0 to 4-0 sutures



*also available in stainless steel, please delete "T" from cat. no. when ordering.



TITANIUM EYE INSTRUMENTS

**ECONOMICAL,
ERGONOMICAL
& EFFICIENT**

- E40-078TE Castroviejo Speculum, page 17
- E40-554TE Castroviejo Eye Caliper, page 19
- E10-513TE Globe Fixation Swivel Ring, page 19
- E10-003TEK Beaver Chuck Handle #3K, page 18
- E35-010TE Troutman-Chris Blade Breaker, page 18
- E10-014E Sapphire Universal Knife 45°, page 65
- E10-022E Sapphire Phaco Knife, 2.8 mm, page 64
- E15-423TE Jaffe-Bechert Nucleus Rotator, page 21
- E15-561TE Sinsky IOL Manipulating Hook, page 21
- E25-251TE Micro Iris/Utility Scissors, page 22
- E25-334TE Wescott Tenotomy Scissors, page 22
- E25-401TE Vannas Capsulotomy Scissors, page 22
- E30-051TE Barraquer Corneal Utility Forceps, page 23
- E30-430TE Bonn Suture Forceps, long model, page 24
- E30-431TE Castroviejo Suture Tying Forceps, page 24
- E30-417TE Paufique Suture Utility Forceps, page 140
- E30-422TE Harms Tying Forceps, straight, page 24
- E30-460TE McPherson Tying Forceps, straight, page 24
- E30-461TE McPherson Tying Forceps, angled, page 24
- E30-448TE Tennant Tying Forceps, straight, page 41
- E30-581TE+ Utrata Capsulorhexis Forceps, page 24
- E35-132TE Castroviejo Needle Holder, straight, page 24
- E35-231TE Barraquer Needle Holder, curved, page 25
- E40-110TE Desmarres Lid Retractor, small, page 17
- E40-613TE Schocket Scleral Depressor, d/e, page 19
- E20-331TE Bimanual Irrigation Handle, page 112
- E20-341TE Bimanual Aspiration Handle, page 113

Once thought to be expensive, titanium in life-cycle costing is now seen as economical. The key to its cost effectiveness is its long life and superior performance under routine working conditions. Virtually immune to a broad range of acids and alkalis, titanium instruments maintain their quality and their smooth surface finish when properly cleaned after each use.

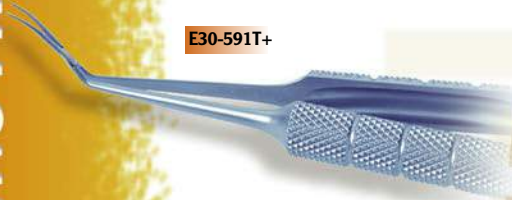




E10-513T



E10-043



E30-591T+



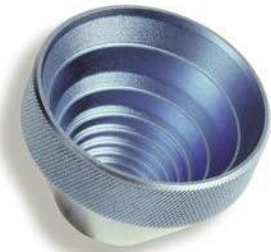
E15-660T



E30-565T



E30-667T



E10-690T

- E40-100T** Lieberman Eye Speculum, page 32
- E10-513T** Fine-Thornton Fixation Ring, page 33
- E40-554T** Castroviejo Eye Caliper, page 33
- E10-043** Sapphire Clear Cornea Knife, page 64
- E10-014** Sapphire Universal Knife 45°, page 65
- E30-591T+** Inamura Capsulorhexis Forceps, page 41
- E25-401T** Vannas Capsulotomy Scissors, page 22
- E15-656T** Nagahara Phaco Chopper 60°, page 36
- E15-673T** Rowen Phaco Spatula, d/e, page 37
- E15-660T** Akahoshi Style Nucleus Sustainer, page 38
- E30-565T** Akahoshi Style Prechopper, page 39
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- E20-331T** Bimanual Irrigating Handpiece, page 112
- E20-343T** Bimanual Aspirating Handpiece, page 113
- E15-501T** Lester Lens Manipulator, page 35
- E30-667T** Seibel Foldable Lens Loader, page 42
- E30-646T** Buratto IOL Insertion Forceps, page 42
- E10-690T** Maloney Keratometer, page 33

PMS



CATARACT



PMS





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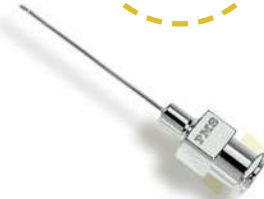
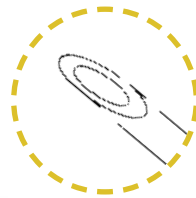
PHACO CHOICES

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- DIAMOND & SAPPHIRE KNIVES 92-93
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- AKAHOSHI STYLE PRECHOPPERS 96-97
- CATARACT PHACO INSTRUMENT SET 98-99
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- HELPFUL INSTRUMENTS 102-103
- TODAY'S GLAUCOMA INSTRUMENTS . . . 104-105
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CATARACT



ANESTHESIA NEEDLES

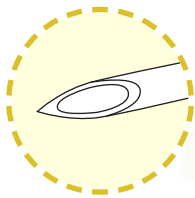


**Atkinson Style
Anesthesia Needles**
23GA/0.6 mm, bevel blunt tip
E20-672 peribulbar, 22 mm
E20-674 retrobulbar, 38 mm
E20-673 retrobulbar/peribulbar, 32 mm

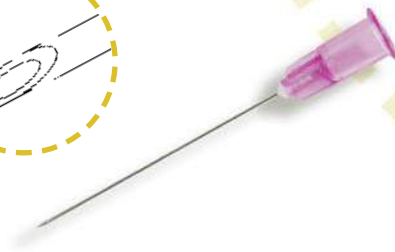
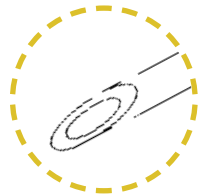


**Atkinson Style
Peribulbar Needles**
22 mm tube, bevel blunt tip,
single use, sterile (box of 10)
102-23-22 23GA/0.6 mm
102-25-22 25GA/0.5 mm
102-27-22 27GA/0.4 mm

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

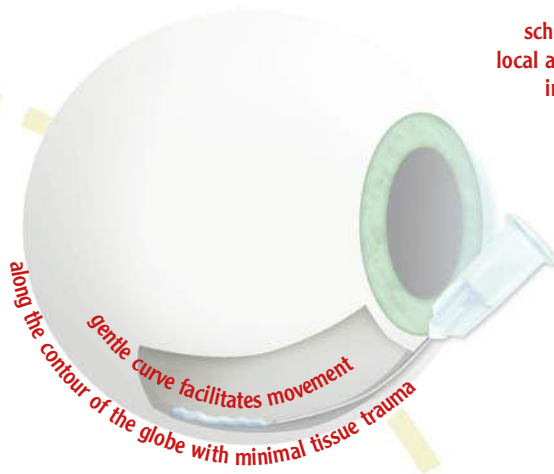


injection of local anesthetic prior to ophthalmic surgery

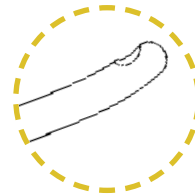
ANESTHESIA CANNULAE



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

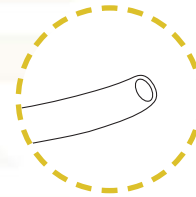


Corbin
Sub-Tenon Cannula
23GA/0.6 x 25 mm tube,
rounded tip, 0.3 mm top port
E20-683



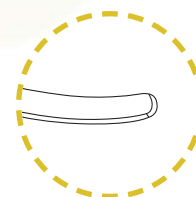
all cannulae are curved to a radius of 30 mm

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

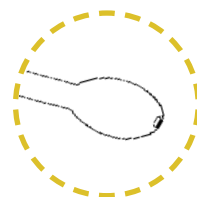


tapered and flattened tips facilitate advancement within sub-Tenon tissue plain

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

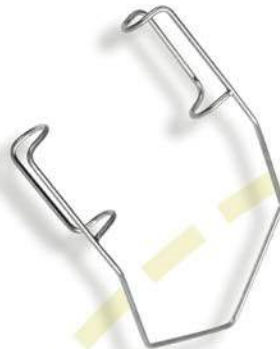


CATARACT INSTRUMENTS



EYE SPECULAE

CATARACT INSTRUMENTS



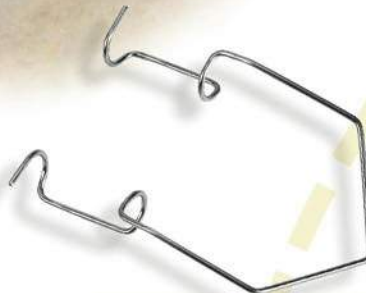
**Barraquer
Wire Speculum**

E40-011 adult size

E40-012 child size

E40-013 infant size

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

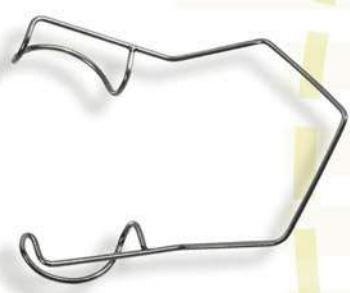


**Kratz-Barraquer
Wire Speculum**

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

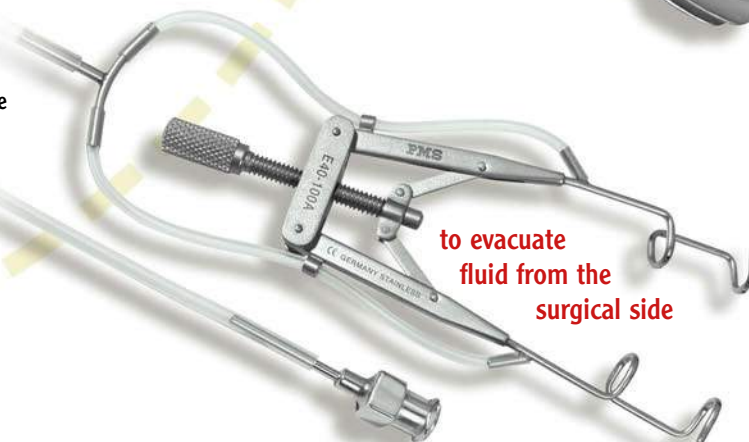


**Lieberman
Aspirating Speculum**
6 ports on each blade

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

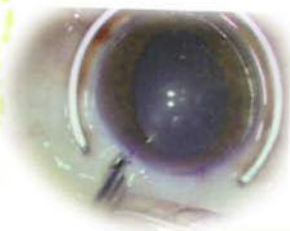
for atraumatic fixation of the eye during phaco



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



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

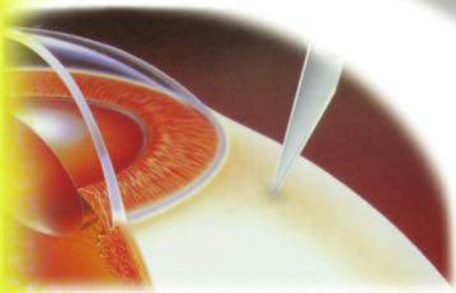
...measuring cataract incisions before phaco,...

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



Chuck Handle
(for miniature edged blades)

*E10-003K #3K, 10.0 cm

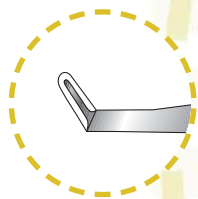
*E10-003KM #3KM, 7.5 cm



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

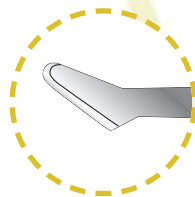
sharp all around surfaces;
ideal for undermining



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)

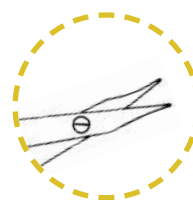
EL-6823H



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

CONJUNCTIVA AND TENOTOMY SCISSORS

P.M.O.



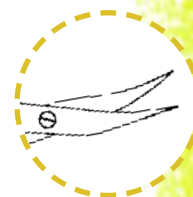
**McPherson-Westcott
Conjunctiva Scissors**
curved, small blades,
10.0 cm

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

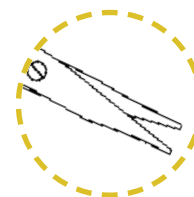
long model, 11.5 cm

E25-566 straight

E25-567 curved



strong, stable scissors for
performing a tenotomy



CATARACT INSTRUMENTS



CONJUNCTIVA FIXATION FORCEPS

CATARACT INSTRUMENTS

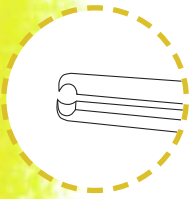


New



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

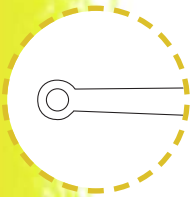


New



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

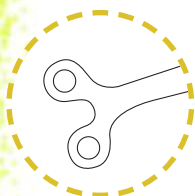


New



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

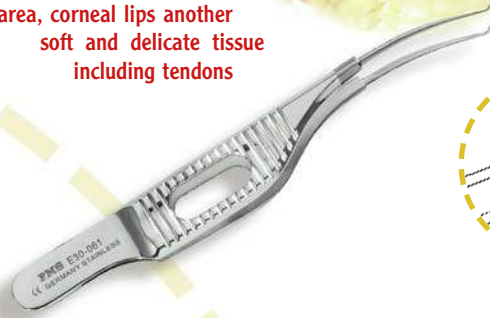
SUTURING FORCEPS

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



PMS

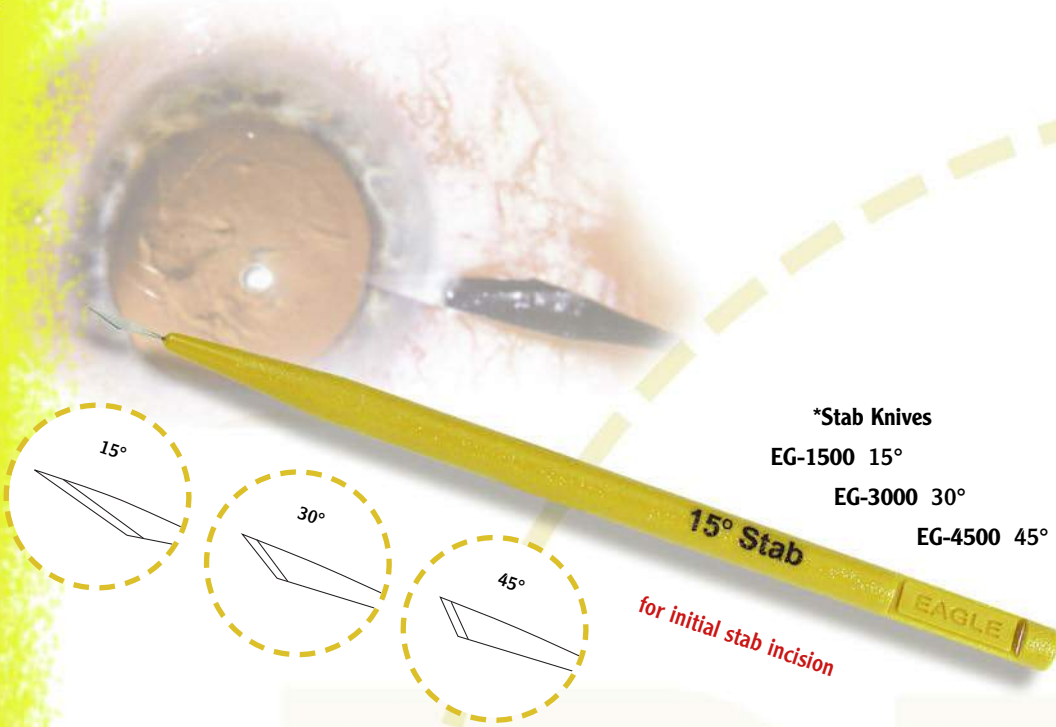


CATARACT INSTRUMENTS



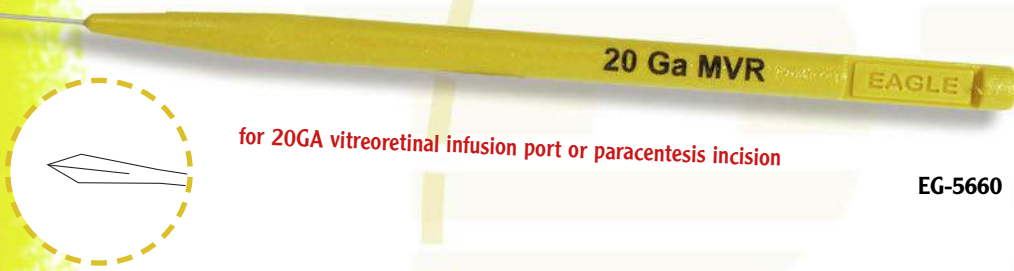
DISPOSABLE EYE KNIVES

CATARACT INSTRUMENTS



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

for initial stab incision



for 20GA vitreoretinal infusion port or paracentesis incision

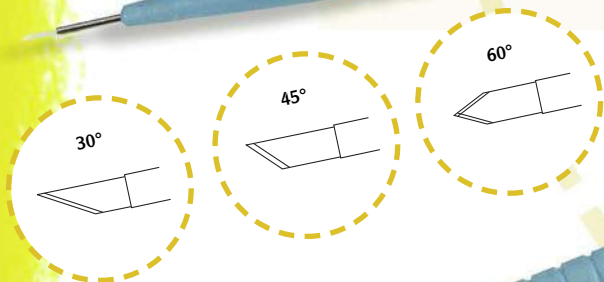
***Stiletto
 MVR Knives**
 EG-5560 straight
 EG-5660 angled



for smooth, true point micro sideport incision

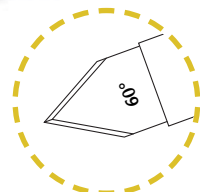
**EZCut®
 Sapphire
 Eye Knives**
 straight, single edge
 blade, 1.0 mm x 0.2 mm thick

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

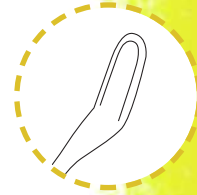
PMD



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



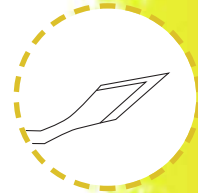
for creating a smooth scleral shelf incision



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



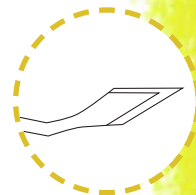
for accurate width phaco incision



***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



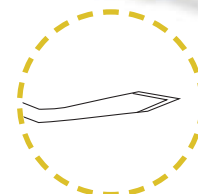
for bimanual phaco and micro cataract incision



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



*for creating a self-sealing incision
during bimanual phaco procedure*



CATARACT INSTRUMENTS

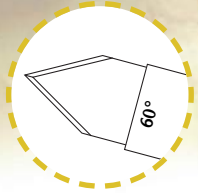
disposable knives, sterile, 6 per box

*  Manufacturer:
EAGLE LABS
Rancho Cucamonga,
California, USA



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.

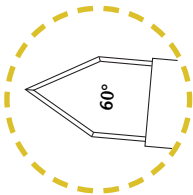


very sharp precision cutting edges reduce trauma to the wound and recovery time following surgery

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

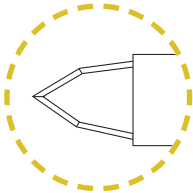


EZCut®
Sapphire Clear Cornea Knives
 angled, keratome 60° blade (4 cutting edges)

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

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

for accurate clear cornea incisions

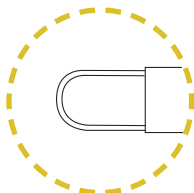


EZCut®
Sapphire Trapezoid Knives
 angled, tapered spear blade (double lancet)

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

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

for precise and controlled phaco incisions



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

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

for scleral tunnel incisions

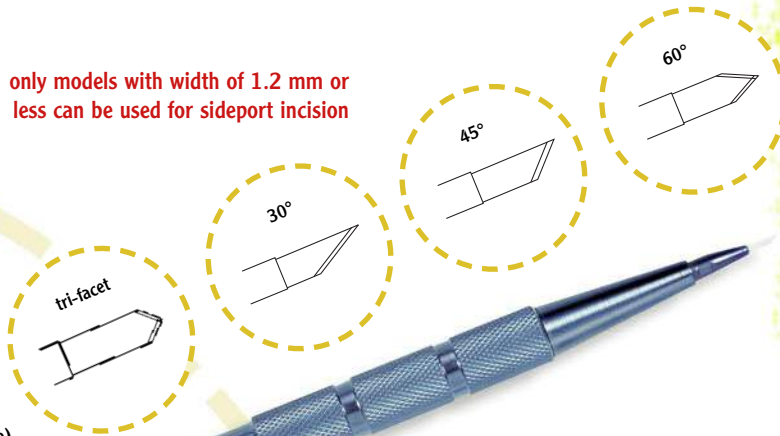
when the plunger is pushed forward the knife is ready for surgery

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

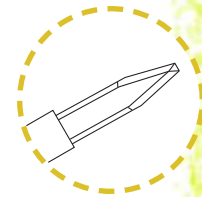
E10-113 30° angle

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

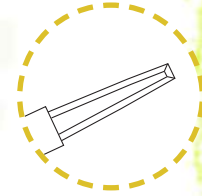


EZCut®

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.

CATARACT INSTRUMENTS

SAPPHIRE BLADES - BLADE HOLDER

PMO

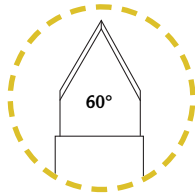


New

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

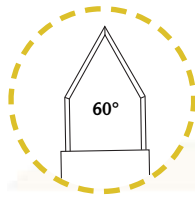


blade shapes	width in mm	removable holder with sapphire blade
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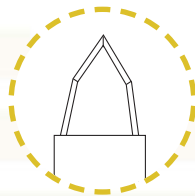
Lancet	2.8	E10-222
	3.0	E10-223
	3.2	E10-224

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



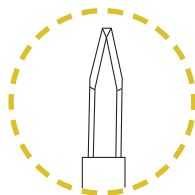
Tapered Spear	2.5/2.9	E10-252
	2.5/3.2	E10-253
	2.5/3.4	E10-254

for precise phaco incision



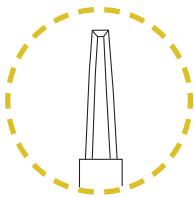
Crescent	1.5	E10-291
	2.0	E10-292
	2.8	E10-293

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

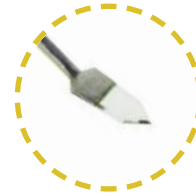
EZCut[®]

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

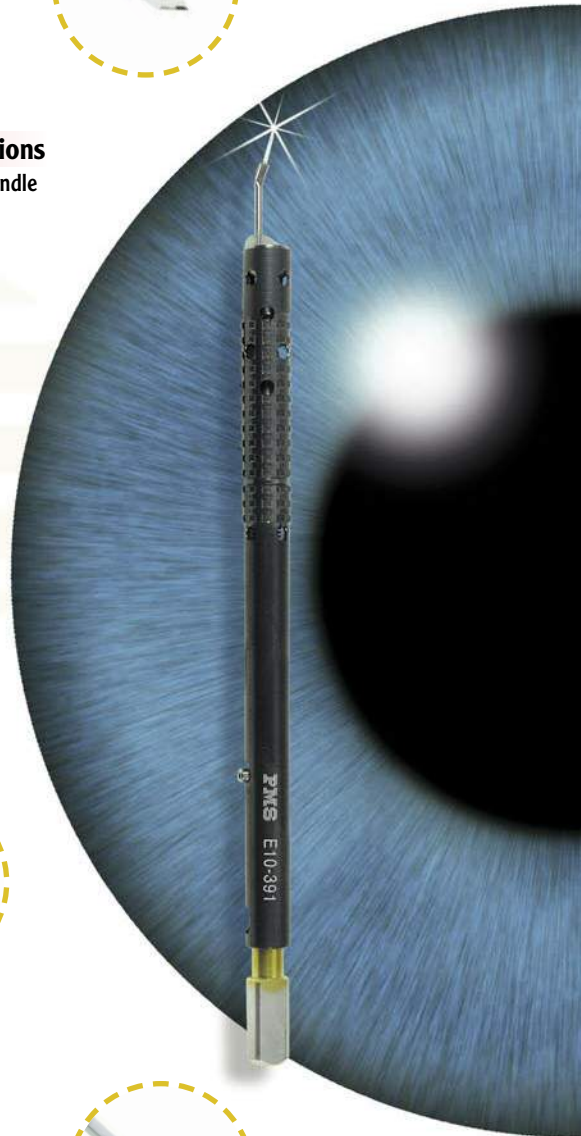
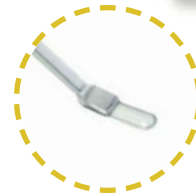


EZCut[®]

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



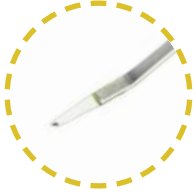
EZCut®

Diamond Micro Incision Knives
tapered spear blade (double lancet)

E10-360 0.9-1.2 mm

E10-361 1.3-1.5 mm

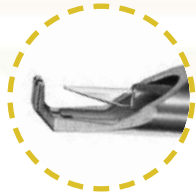
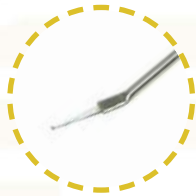
E10-362 1.8-2.0 mm



EZCut®

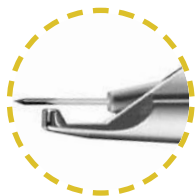
Diamond Zaldivar Style Knife
trapezoid shaped blade,
0.55 - 1.0 mm width,
4.5 mm long

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

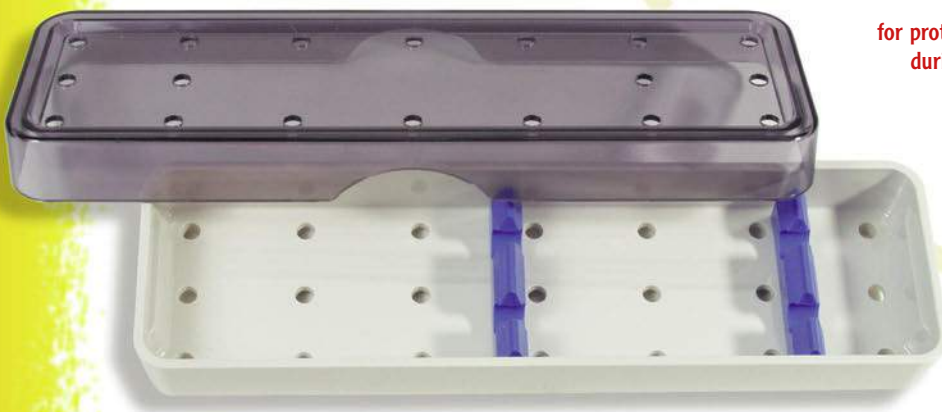
small pore construction absorbs fluids, ideal to
remove stains and debris from diamond blade



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

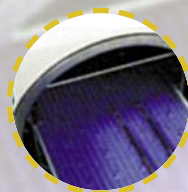
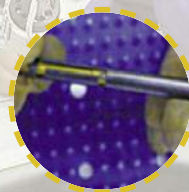
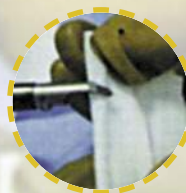
The diamond blade can be gas, flash or steam sterilised (in autoclave). The temperature should not exceed 273°F/134°C.

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.

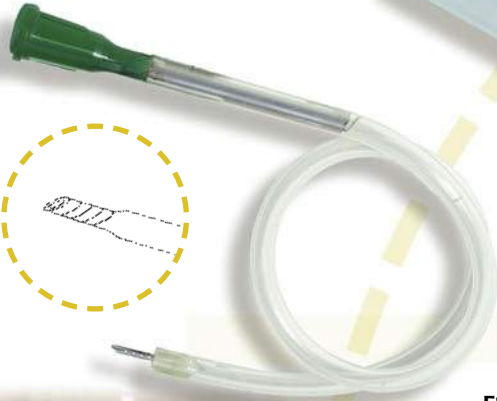




ANTERIOR CHAMBER MAINTAINER



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



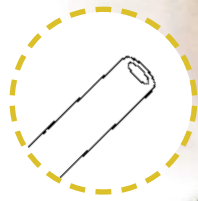
Heslin
Anterior Chamber Maintainer (reusable)
 23GA/0.6 x 6 mm bevelled blunt tip
E20-023PT polished
E20-023TT textured

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

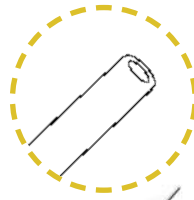
ANTERIOR CHAMBER IRRIGATORS

PMB



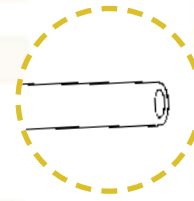
**Anterior Chamber
Irrigating Cannula**
25 mm straight tube,
single use (box of 10)

- 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



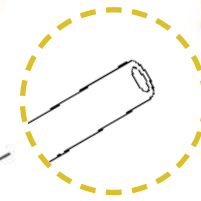
**McIntyre
Anterior Chamber Cannula**
15 mm straight tube - 12 mm angled tube

E20-043	30GA/0.30 mm	E20-047
E20-045	26GA/0.45 mm	E20-048
E20-046	23GA/0.60 mm	E20-049



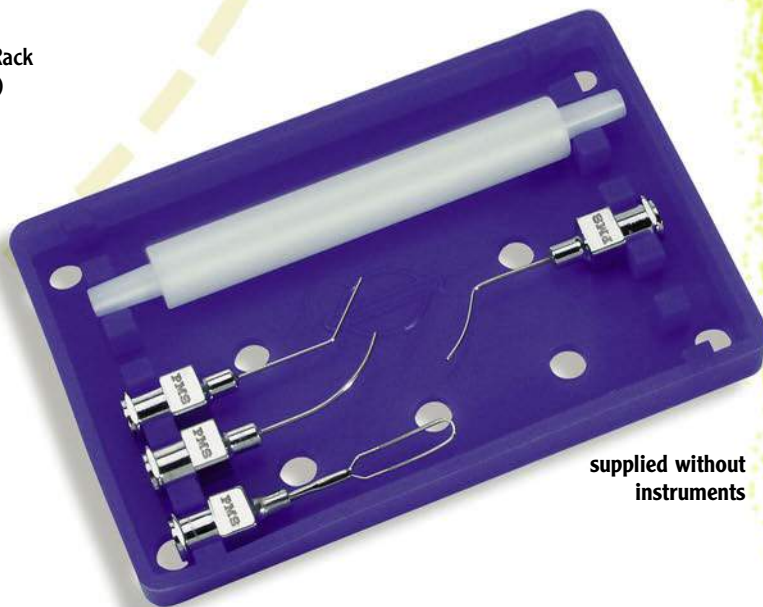
**Rycroft
Air Injection Cannula**
20 mm tube, angled 5 mm

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



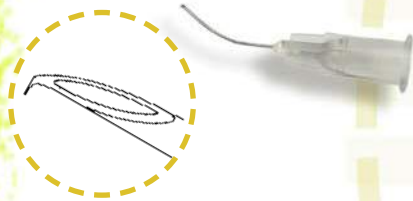
1 ml syringe provides the optimum hydraulics and feel; larger syringes can produce excessive flow with only light pressure of the plunger



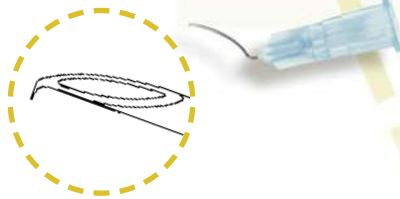
Irrigating Cystotome, straight
120-25S 25GA/0.5 x 16 mm
120-27S 27GA/0.4 x 13 mm
120-30S 30GA/0.3 x 19 mm
 to perform a can-opener technique

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

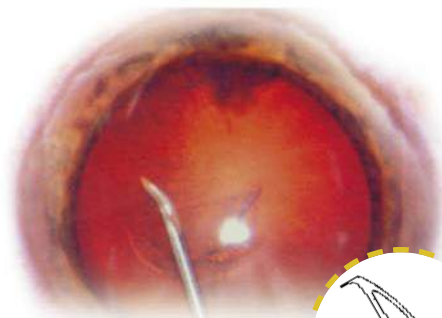
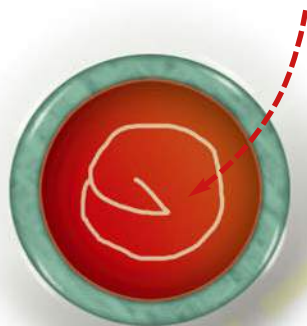
A simple technique is to use a 27 gauge or 30 gauge bent cystotome and directly puncture the clear cornea to create a capsulorhexis without a groove or stab incision. The technique offers savings in instruments and viscoelastics and is ideally suited for bimanual micro incision phaco surgery. For more 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)

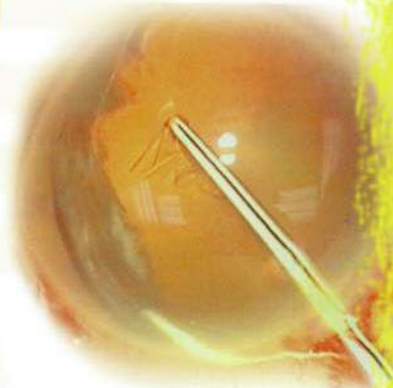
The tips of a capsulorhexis forceps are used to puncture the anterior capsule. A flap is created by grasping the inferior end of the puncture and lifting it anteriorly. The edge of the flap is grasped and then re-grasped in a curved fashion creating a circular tear. **Ideally, the puncture site should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



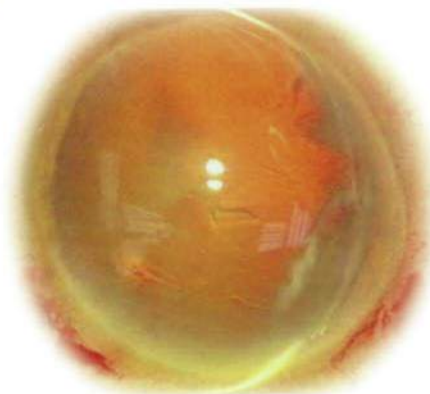
Capsulorhexis in progress using a cystotome cannula



Anterior capsule is torn to complete a circular tear



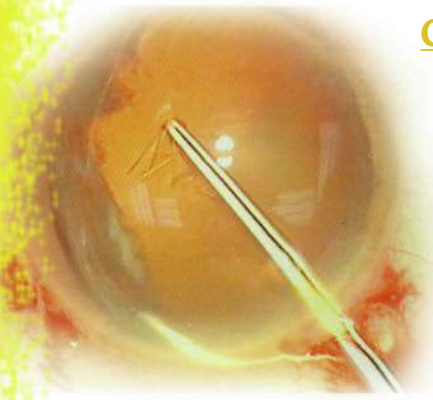
Capsular flap grasped with capsulorhexis forceps



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



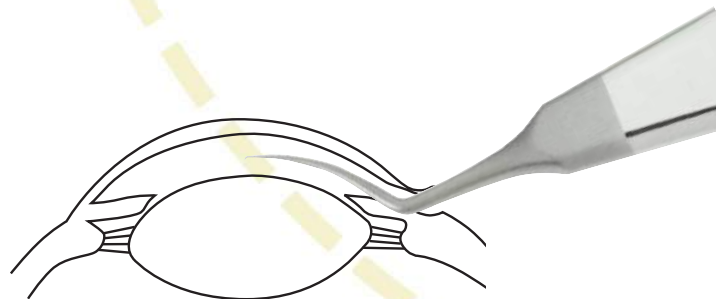
sharp tips
 +SH

...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

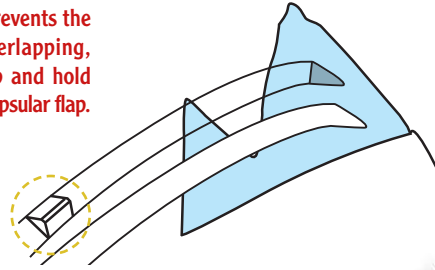
*when ordering please specify tip design: BL=blunt, SH=sharp

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+



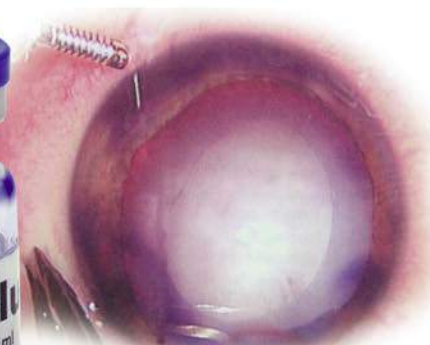
Inamura Style
Capsulorhexis Forceps
vaulted 13 mm shanks,
ultra fine tips, 12.0 cm
E30-591+



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



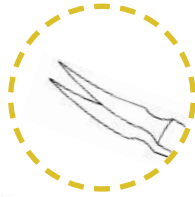
A CCC is performed with the aid of
trypan blue and an ACM inserted
through the paracentesis.

CATARACT INSTRUMENTS



CAPSULOTOMY SCISSORS

ideal for cutting the anterior capsule, ...

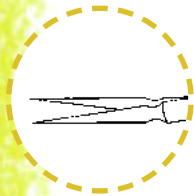


Vannas
Capsulotomy Scissors
5 mm blades, sharp tips, 8.2 cm

E25-400 straight

E25-401 curved

E25-405 angled

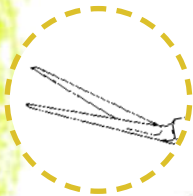


Gills-Vannas
Capsulotomy Scissors
7 mm blades, sharp tips, 8.2 cm

E25-410 straight

*E25-411 curved

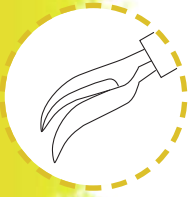
E25-415 angled



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

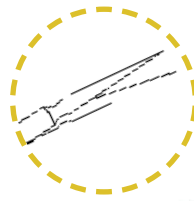
*also available on titanium handle, please add "T" to cat. no.

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



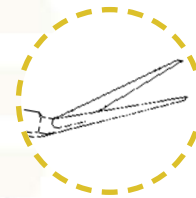
Uthoff-Vannas
Capsulotomy Scissors
very thin 10 mm blades,
strong curve, blunt tips,
8.2 cm

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

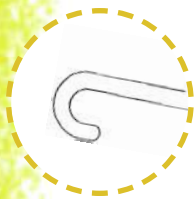
CATARACT INSTRUMENTS



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

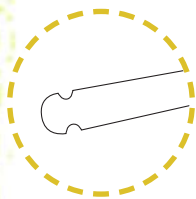
used to retract the iris
and anterior capsule, supports nucleus delivery



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

E15-466

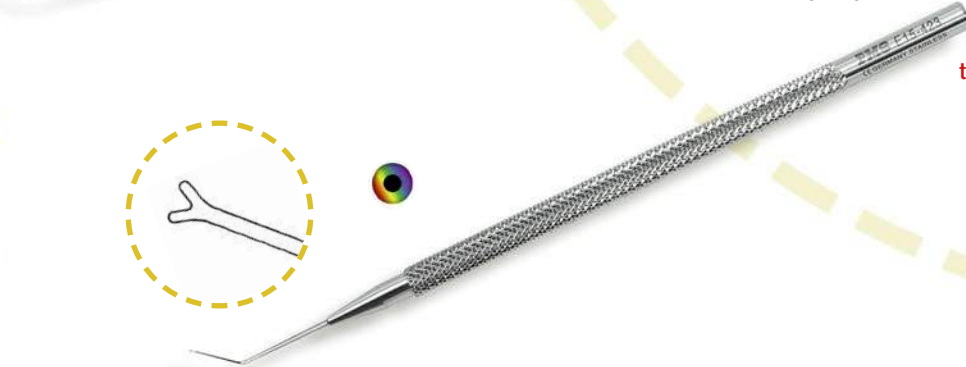
used to control, manipulate and
divide either soft or hard nucleus



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

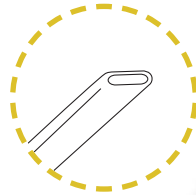
NUCLEUS REMOVAL CANNULAE

PMS



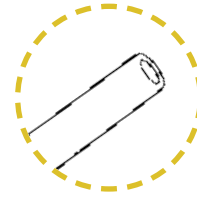
Rainin
Irrigating Cannula
20 mm tube, angled 7 mm
horizontal flattened tip
E20-033 30GA/0.3 mm
E20-034 27GA/0.4 mm

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



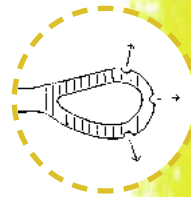
Gill
Cortex Aspirating Cannula
25GA/0.5 x 20 mm tube,
angled 5-9 mm round tip:
E20-164 5 mm
E20-167 7 mm
E20-169 9 mm

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

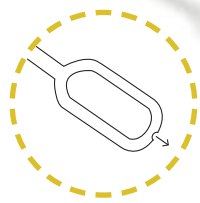
used to effectively remove
- irrigate, separate and lift out -
the lens nucleus and large cortical debris



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



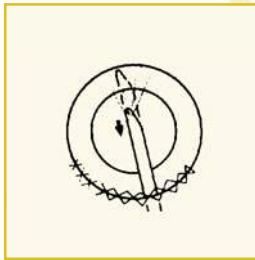
**Simcoe (Reusable)
Double I and A Cannula**
23/23GA x 15 mm tube,
0.3 mm aspirating port with
silicone tubing and LL adaptor

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)

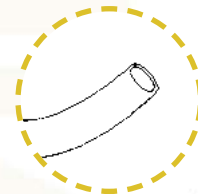
108-23 23GA/0.6 mm
108-25 25GA/0.5 mm



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



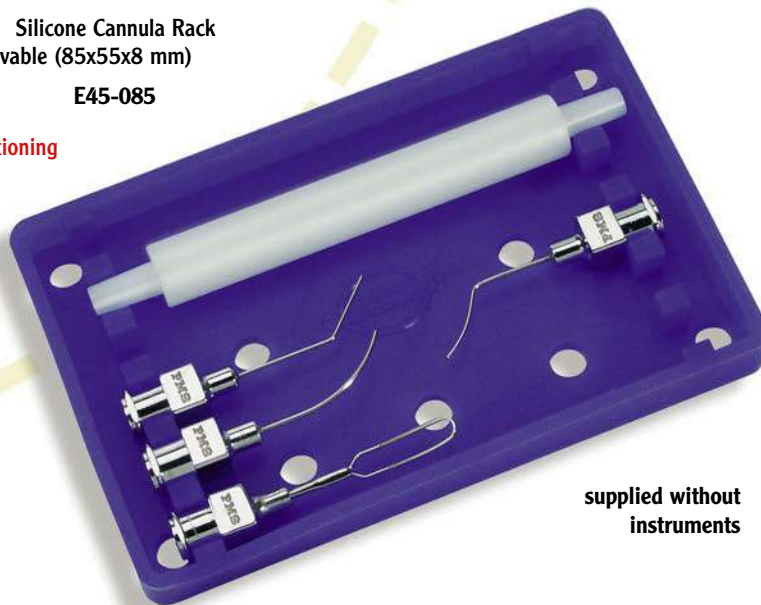
McIntyre
Handpiece
(autoclavable) Teflon

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



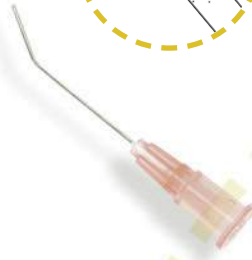
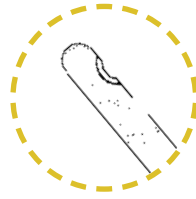
supplied without
instruments

CATARACT INSTRUMENTS



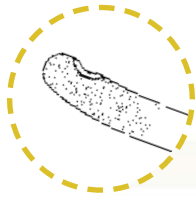
CAPSULE POLISHING CANNULAE

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

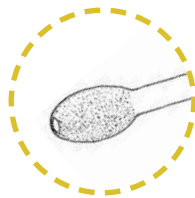
sandblasted and roughened tips allow controlled polishing of posterior capsule, scraping and aspiration of lens epithelial cells from the capsular bag



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

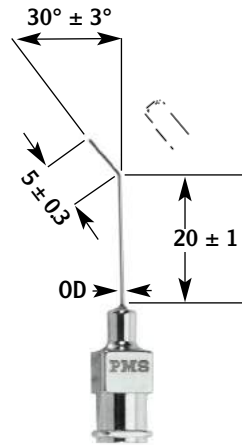
Blue
23GA/0.60 mm, ID 0.33 mm

Black
22GA/0.70 mm, ID 0.41 mm

Green
21GA/0.80 mm, ID 0.51 mm

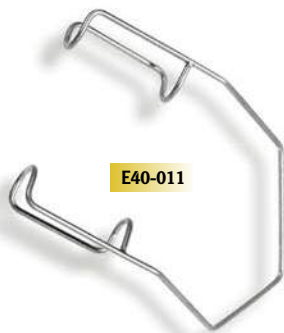
Yellow
20GA/0.90 mm, ID 0.60 mm

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



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

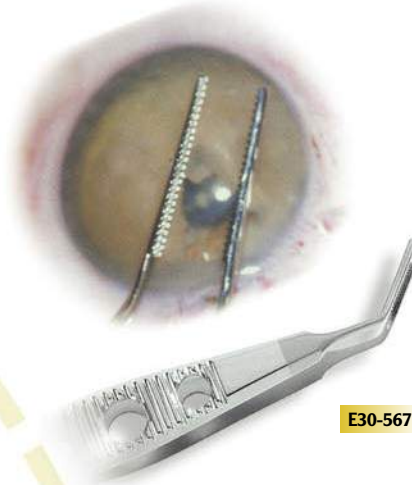
E20-231 Sheets Irrigating Vectis, page 81

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)

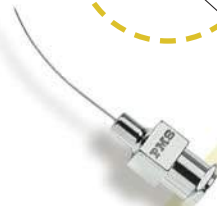
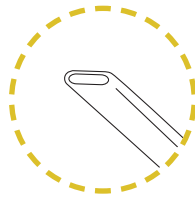


E45-113



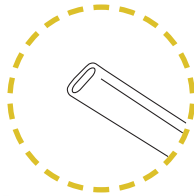
PHACO CHOICES - HYDRODISSECTION CANNULAE

CATARACT INSTRUMENTS



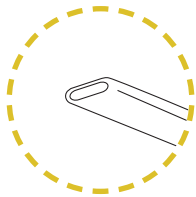
Helsinki
Nucleus Hydrodissector
27GA/0.4 x 20 mm tube
with horizontal flattened tip

E20-201 reusable
118-27 disposable



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

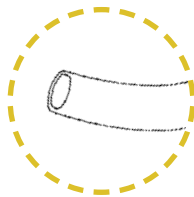
E20-203 reusable
118-27S disposable



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

E20-205

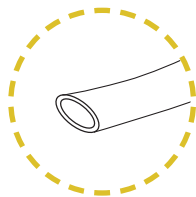
Flattened tip cannulae allow for smooth insertion beneath the capsulorhexis edge. Fluid is distributed in a fan-like effect all around the capsular bag for effective hydrodissection.



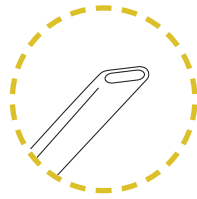
Kellan
Hydrodissection/Hydrolineation Cannula
25GA/0.5 x 20 mm curved tube

E20-211 flattened blunt tip
for hydrodissection

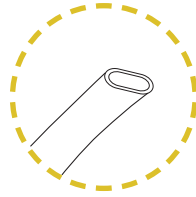
E20-213 bevelled blunt tip
for hydrolineation



disposable cannulae, sterile, 10 per box



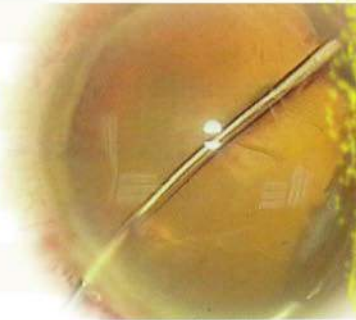
Hydrodissection Cannula
25 mm tube, angled 7 mm flat tip
113-25 25GA/0.5 mm
113-27 27GA/0.4 mm



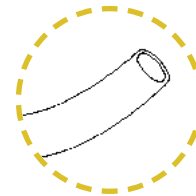
Nichamin
Nucleus Hydrodissector
25 mm tube, formed 12 mm flat tip
113-25F-12 25GA/0.5 mm
113-27F-12 27GA/0.4 mm



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

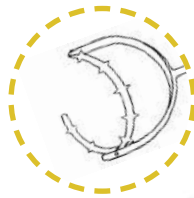
E10-516 16 mm ID
for scleral tunnel incision



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





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





New

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

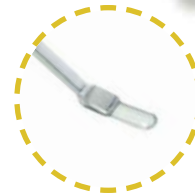


EZCut®

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

PMD



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



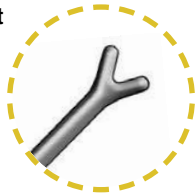
Do not use acid or alkali detergents or any kind
of abrasives for cleaning the aluminium handle.
Never use balanced salt solution for rinsing.



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



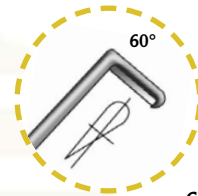
**Rosen
Phaco Splitter
E15-655R**



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

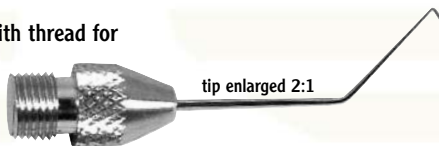


**Drysdale
Nucleus Manipulator
E15-465R**



**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



tip enlarged 2:1



**Koch
Phaco
Chopper
E15-657R**



**Chang
Nucleus Manipulator
E15-464R**



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



**Seibel
Phaco Chopper
E15-669R**



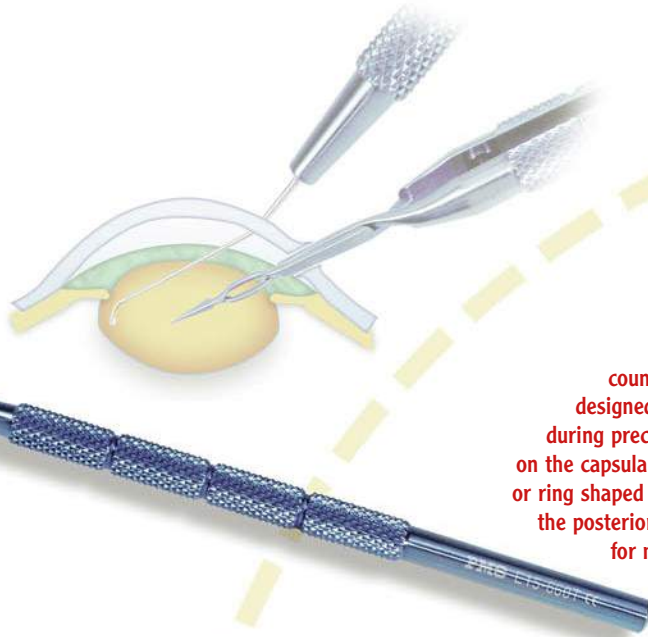
**“Connor Wand”
Nucleus Manipulator
E15-467R**

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

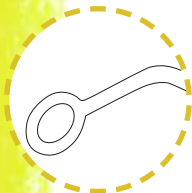


Nucleus Sustainer

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



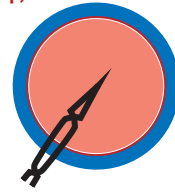
schematic representation of the Akahoshi Style (vertical prechop) technique fig. 1 to 4

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 %.

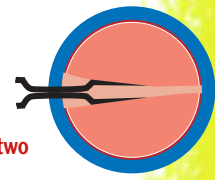
Universal Prechopper
 paddle style jaws,
 sharp tips, 12.2 cm
E30-564T straight
E30-565T angled
 for medium to hard nucleus



1. Penetrate nucleus



2. Split nucleus in two



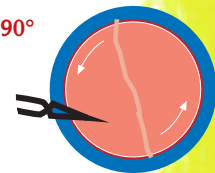
Sharp Prechopper
 triangular style jaws,
 sharp pointed tips, 12.2 cm

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

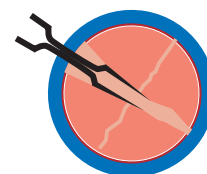
Hybrid Prechopper
 hooked jaws with
 sharp angular edge,
 12.2 cm

E30-569T

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



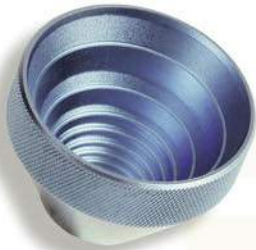
4. Split the halves into quarters



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



PHACO CHOICES - MANUAL FRACTURE INSTRUMENTS

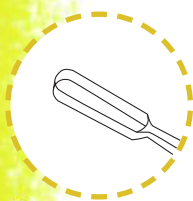
CATARACT INSTRUMENTS

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



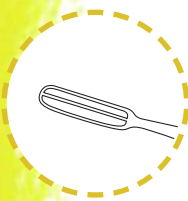
Kansas-Alfonso
Nucleus Bisector
angled 10 mm blade,
sharp cutting edge on
the vertical plane,
11.0 cm
E15-431T

used to split the nucleus in two parts



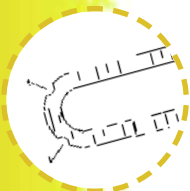
Kansas-Alfonso
Universal Nucleus Trisector
angled semicircular blade with
sharp cutting edges, 11.0 cm
E15-432T 1.5 mm wide
E15-433T 2.5 mm wide

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

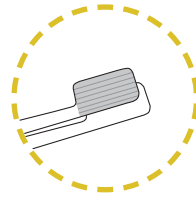


Alfonso-Hoffmann
Irrigating Nucleus Fragment Cannula
25GA/0.5 mm loop with fine
serrations, two front ports
E20-242 2 mm wide
E20-243 3 mm wide

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.

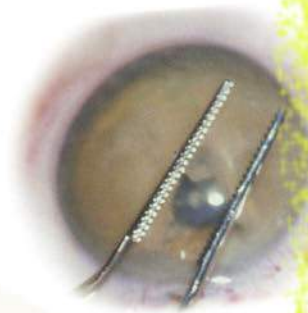


Salz
Nucleus Cracking Forceps
cross-action shanks with finely
serrated paddle style tips, 7.5 cm

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

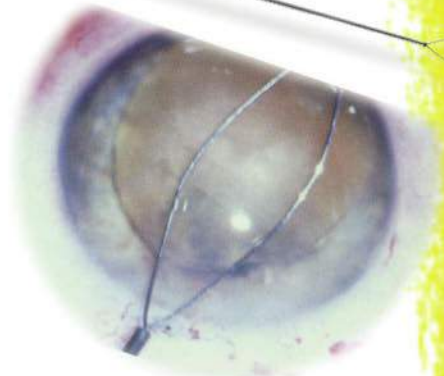
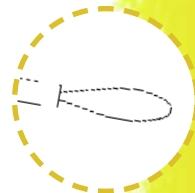


Keener
Lens Nucleus Divider
with set of snare wire

E15-450

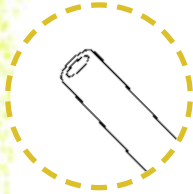
E15-452 replacement
snare wire (set of 2)

used to divide the nucleus
in two or more segments





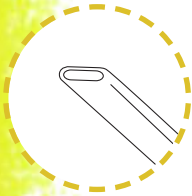
A combination of the E20-020ST Lewicky Chamber Maintainer and E20-152 Simcoe Cortex Aspirating Cannula can be used to remove the anterior cortex and epinucleus through a side port incision at 11 and 2 o'clock.



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.



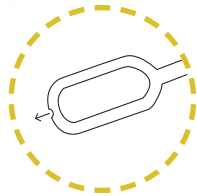
Irrigating Vectis
27GA/0.4 mm x 30 mm tube,
3 mm wide loop with 0.3 mm port,
single use, sterile (box of 10)
140-27-1



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

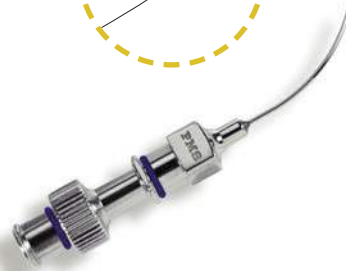
ideal for retracting the iris, and
aspirate the cortex between
10 and 2 o'clock



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



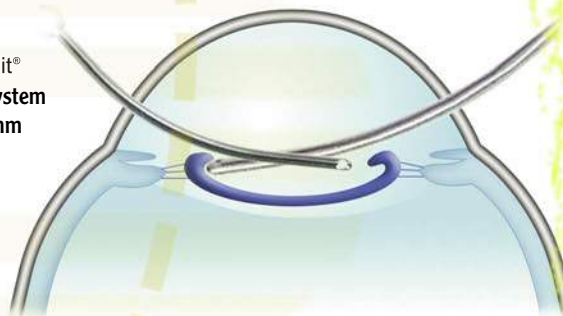
cannulae and connectors have coloured rings:
BLUE stands for irrigation - **RED** for aspiration

EZFit®
 Cortex Aspirating 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,
 Aspirating 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

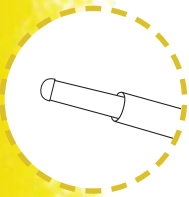


side view of the micro punch head

for Viscocanalostomy,
Canaloplasty and other
Trabeculectomy procedures

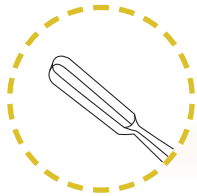
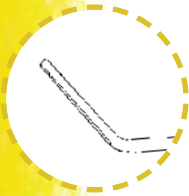
EZCut®
Micro Membrane Punch
titanium "direct action" handle,
19GA/1.1 x 15 mm straight shaft,
micro 0.75 mm dia. head with
0.5 mm deep bite, 13.0 cm
E40-994T

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

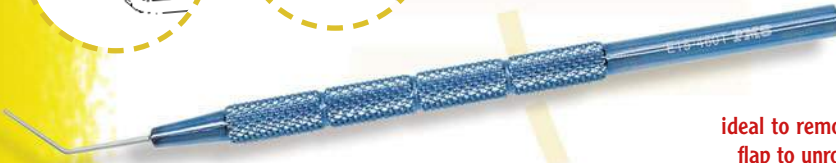
for easy insertion through small incisions



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

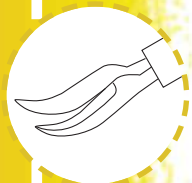
USC Scleral Planer
angled 10 x 1 mm wide blade,
dual cutting edges, 11.0 cm
E15-222T

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





Schott Lid Speculum

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

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.

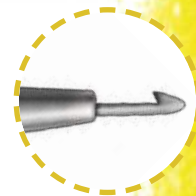


image of punch head
in cutting position

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

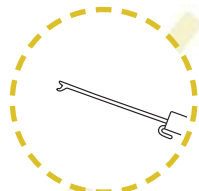
14-5004 Cautery Pencil, see MVR section

E45-321 EZLoad® Sterilisation Container

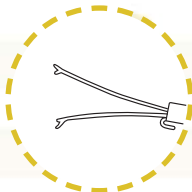
E45-111 EZWash® Sterilising Tray



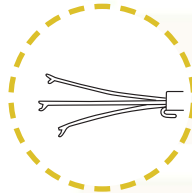
*Beehler Style
Small Pupil
Dilators*



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



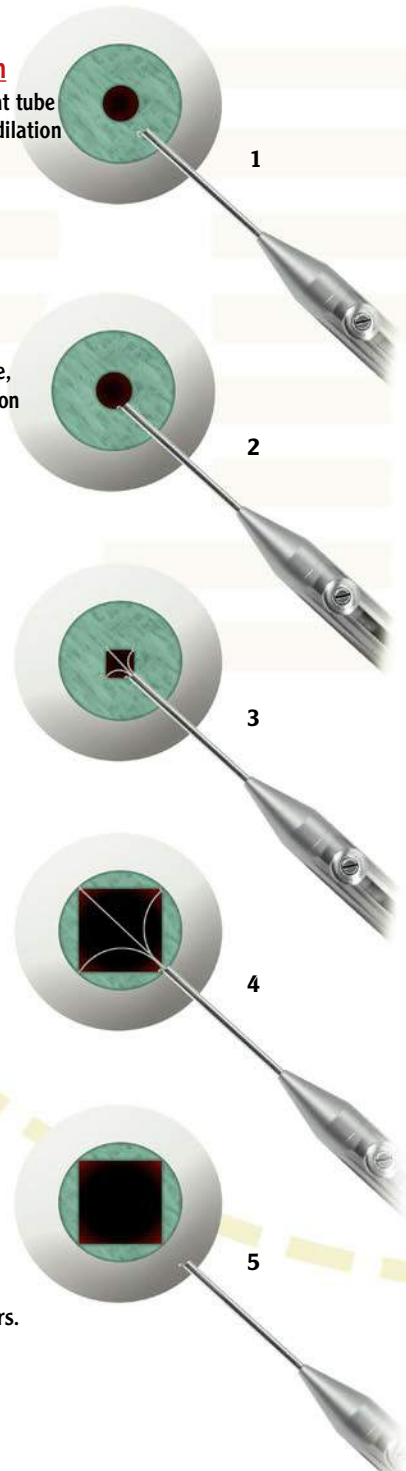
for 3 mm incision
16GA/1.6 mm curved tube,
3 fingers for 4 points dilation
E15-573

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:

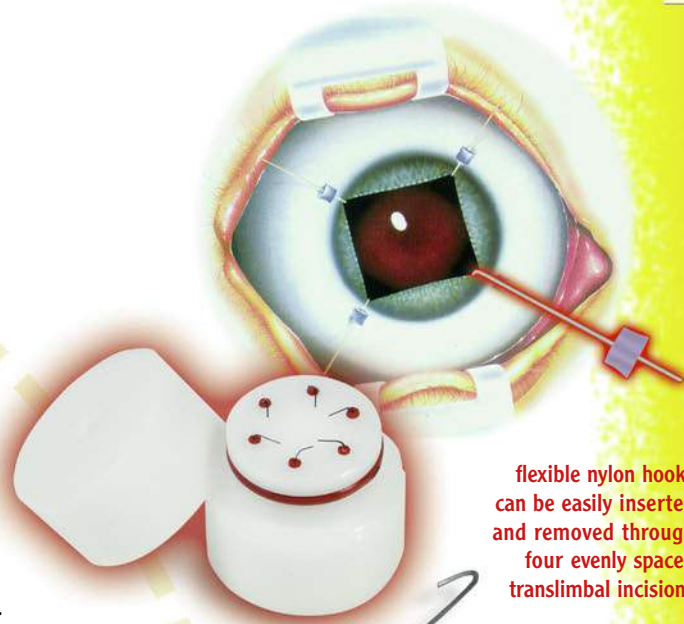
1. Tubular shaft fits easily through a side port or standard phaco incision.
2. After entering, the instrument is turned 90° and the external micro hook is engaging the 12 o'clock pupil margin.
3. A simple -thumb controlled- activation of three microfingers results in a 4 points symmetrical and simultaneous 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®
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

**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



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

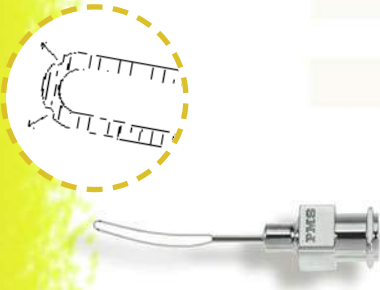


Gross Sub-Tenon Cannula
21GA/0.8 mm gently curved tube, flattened tip
E20-687

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.

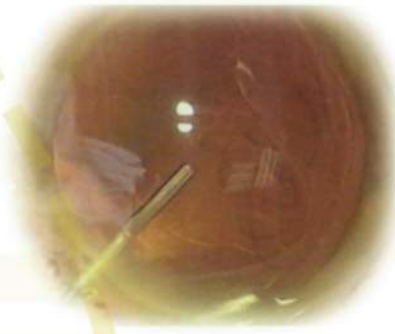
Capsular Rupture

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



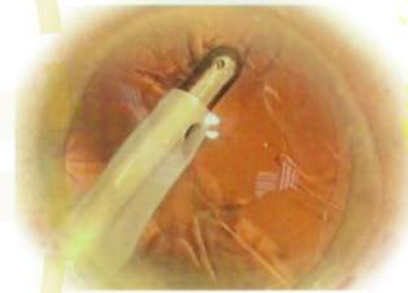
Viscoelastic Injection

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).



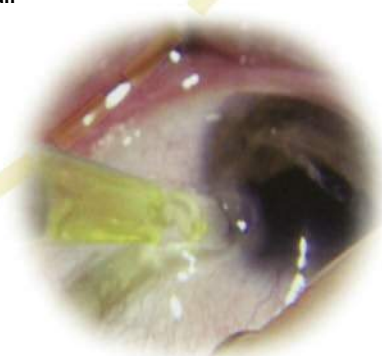
Bimanual Vitrectomy

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

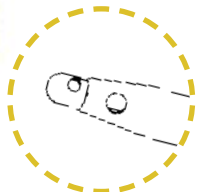
for easy and effective cortex removal

CATARACT INSTRUMENTS



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

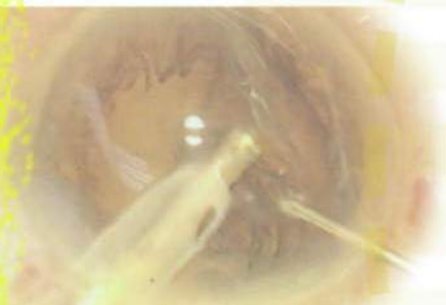
E20-400EL



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

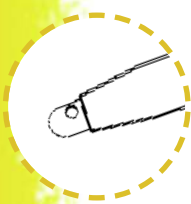
E20-403ELA angled 45°

provides tight seal around wound
and anterior chamber stability



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

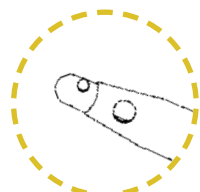
E20-403ELI



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

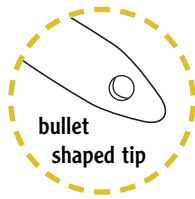
EZFit®
Luer-Lock Adaptor
2 x female connectors
E20-422EF



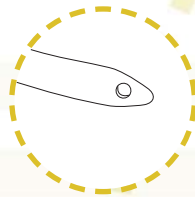
CATARACT INSTRUMENTS



IRRIGATION

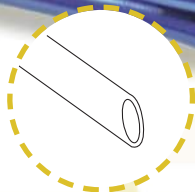
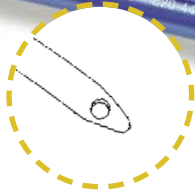


“For effective cortex management”. This system is used by many phaco surgeons for bimanual irrigation and aspiration of residual cortex after phaco and removal of the nucleus.



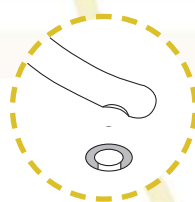
EZFlo®
Irrigation Handpiece
21GA/0.8 x 17 mm round cannula,
dual 0.5 mm side open ports
E20-441 smooth tip
E20-442 rough tip

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

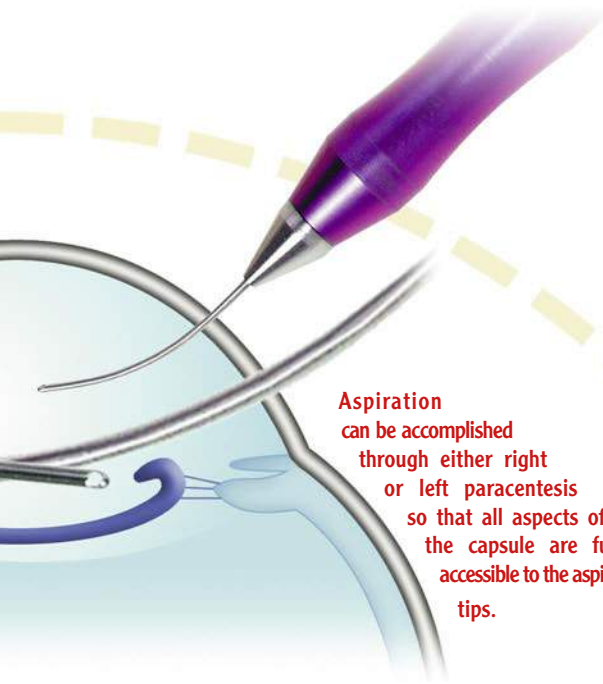
EZFlo®
Irrigation Handpiece
male/female Luer fittings
E20-440

for standard reusable and disposable cannulae

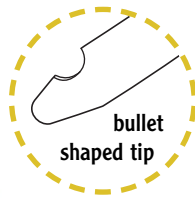




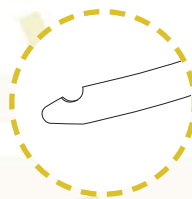
ASPIRATION



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

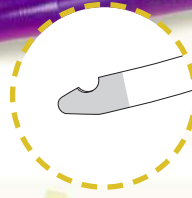


EZFlo®
Aspiration Handpiece
21GA/0.8 x 17 mm round cannula
0.3 mm top open port
E20-451 smooth tip
E20-452 rough tip



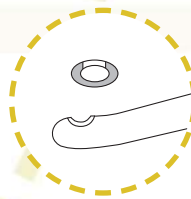
for standard aspiration procedures

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



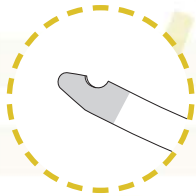
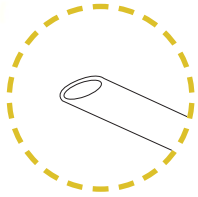
BIMANUAL DISPOSABLE I/A SYSTEMS

CATARACT INSTRUMENTS

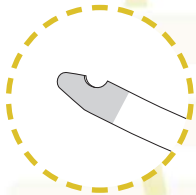
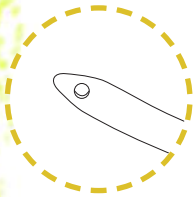


FEATURES AT A GLANCE

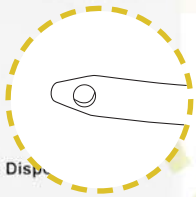
- Single use, sterile product.
- No risk of cross contamination.
- Lightweight, colour coded handles.
- Bullet shaped tip for easy tunnel insertion.
- Irrigation front open port or dual side ports.
- Aspiration port of 0.35 mm diameter.
- Roughened tip for capsule polishing.



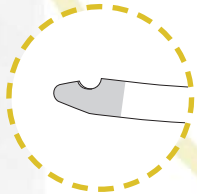
Bimanual I/A System 21GA/0.8 mm complete, consisting of 1 piece each:
 Irrigating handle, 45° front open port
 Aspirating handle, 0.35 mm top open port
BSD 500 system with rough aspirating tip



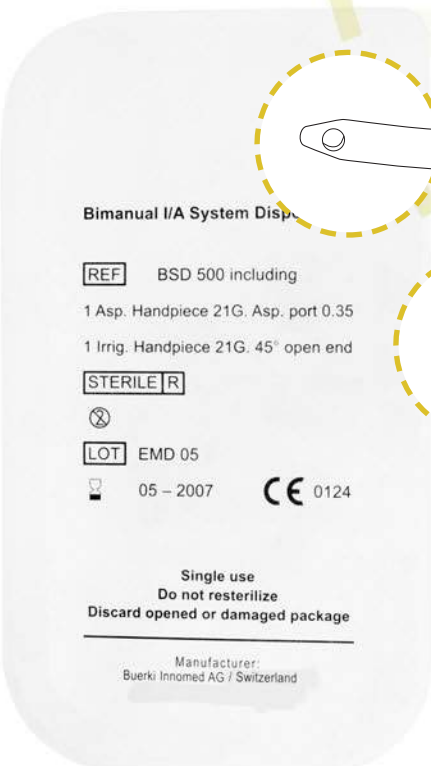
Bimanual I/A System 21GA/0.8 mm complete, consisting of 1 piece each:
 Irrigating handle, dual 0.45 mm side ports,
 Aspirating handle, 0.35 mm top open port
BSD 510 system with rough aspirating tip
BSD 515 system with smooth aspirating tip



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



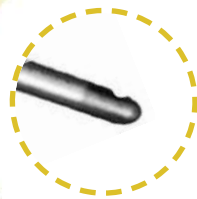
EZLock®
Irrigating Chopper Tip
for use with handle E20-460
20GA/0.9 mm curved tube, 0.5 mm front open port
E20-483R



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...



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).

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

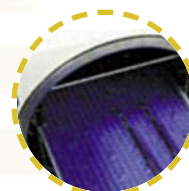
Above products are sold Non-Sterile and must be cleaned and sterilised before the first use!

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.

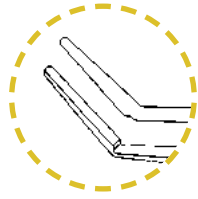
Brief Description	Product No. (complete)	Product No. (tip only)
Alio Scissors	E25-623A	E25-623R
Alio II Forceps	E30-623A	E30-623R
Fine-Ikeda Forceps	E30-624F	E30-624R
Ikeda II Forceps	E30-625I	E30-625R

CATARACT INSTRUMENTS

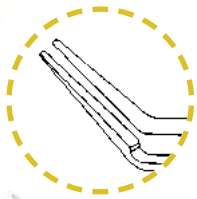


IOL INSTRUMENTS - PMMA LENS FORCEPS

*Gold-plated handles
for easy identification.*

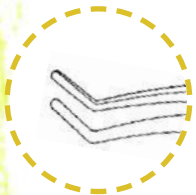


EZHold®
Kelman-McPherson
Tying & Lens Holding Forceps
angled 7.5 mm smooth jaws
with platform, 10.5 cm
***E30-463**



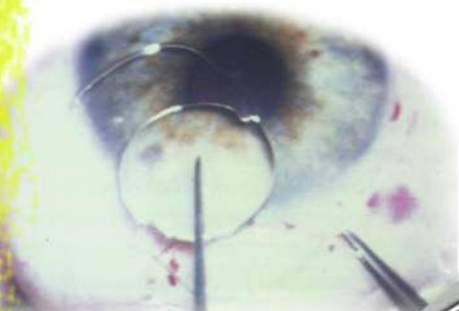
*for holding and implanting
small incision PMMA lenses*

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*



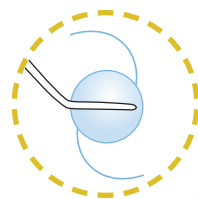
EZHold®
Blaydes Style
Lens Forceps
narrow smooth
jaws, 11.0 cm
***E30-623**

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



Highly polished jaws
prevent damage to the optic surface.

HOLD

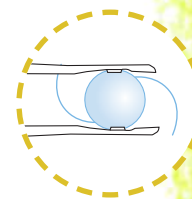


EZHold®
Steinert Lens Holding Forceps
angled 7.5 mm smooth jaws,
flat inside surfaces, 10.5 cm
E30-643



for holding soft IOLs
while folding with an inserting forceps

PICK UP

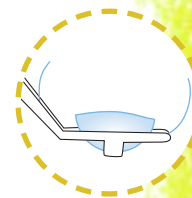


EZFold®
Livernois IOL Folding Forceps
angled 10 mm smooth paddle jaws,
concave inside surfaces, 10.5 cm
E30-661



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

FOLD

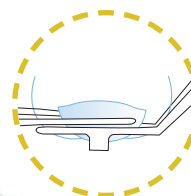


EZFold®
Seibel Foldable Lens Loader
angled 12 mm smooth paddle jaws,
straight inside surfaces, 11.0 cm
E30-667T

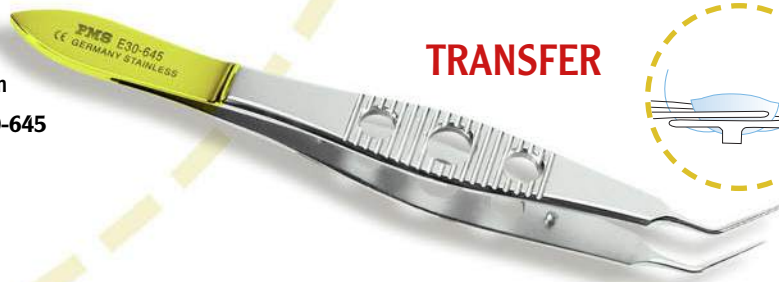


paddles effectively pick up soft IOLs
for even and equal folding

TRANSFER



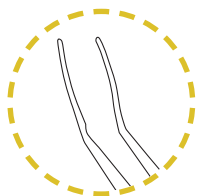
EZHold®
Faulkner Lens Holding Forceps
angled 11 mm rounded
smooth jaws, 10.5 cm
***E30-645**



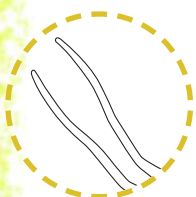
*also available in titanium, please add "T" to cat. no.



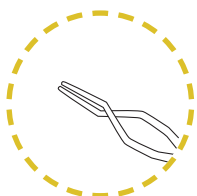
Foldable Lens Inserters
are best to implant acrylic lenses
through a small incision.



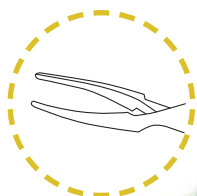
EZSert®
Buratto Lens Forceps
angled 8 mm shanks,
biconvex smooth jaws,
10.5 cm
E30-646T



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



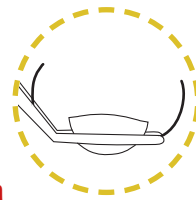
EZSert®
Ernest-McDonald
Soft Lens Insertion Forceps
cross-action design, angled 15 mm shanks,
low profile biconvex smooth jaws,
10.0 cm
E30-663T



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



*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



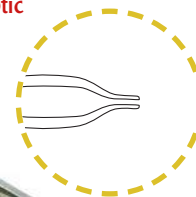
cross-action design allows for
easy insertion of most foldable len styles

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



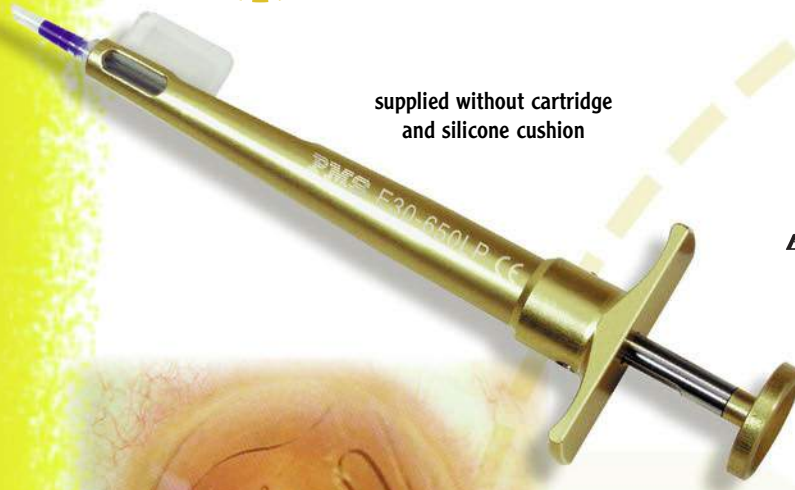
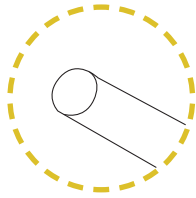
extended flat tips are useful to
implant superior haptic

designed to fold
today's soft IOLs





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

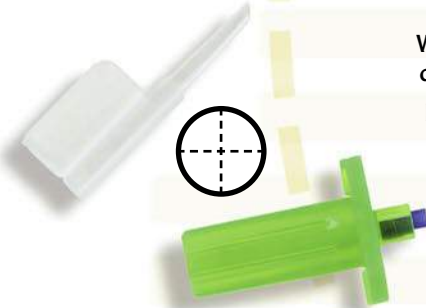


photo shows injection of 1-piece foldable lens

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



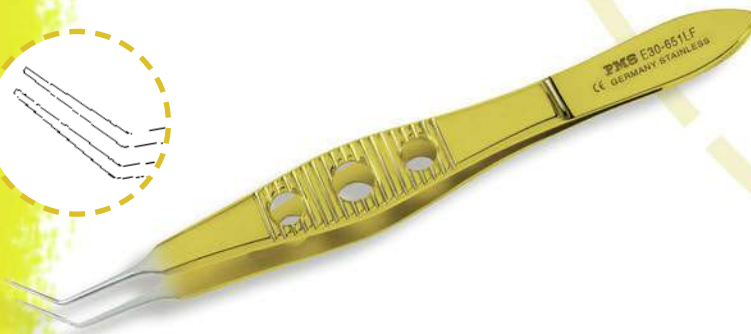
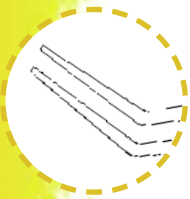
VISCOJECT™ CARTRIDGE SETS FOR 1-PIECE LENSES
consisting of ViscoGlide™ cartridge and silicone cushion

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

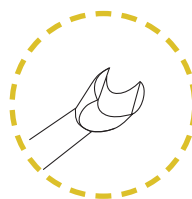
ideal to place the soft lens into the
open cartridge and to control
correct loading



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

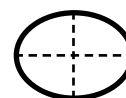
E30-651LC screw style, 14.5 cm



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

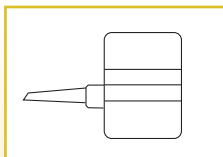
designed to accurately adjust soft lenses
within the tube portion of the cartridge



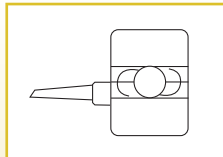
Video available

CATARACT INSTRUMENTS

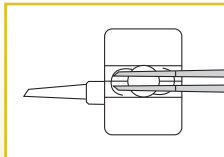
INSTRUCTIONS FOR LOADING



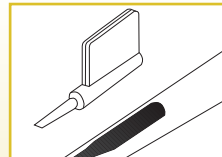
Open cartridge and fill
the loading chamber
with viscoelastic.



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*

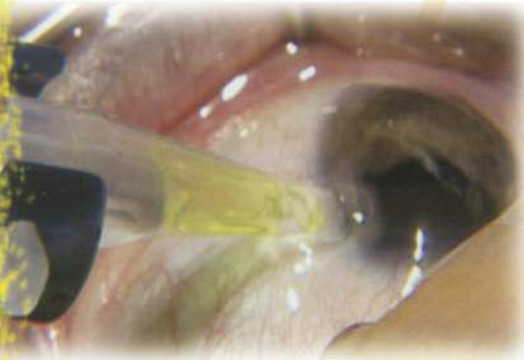
CATARACT INSTRUMENTS



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

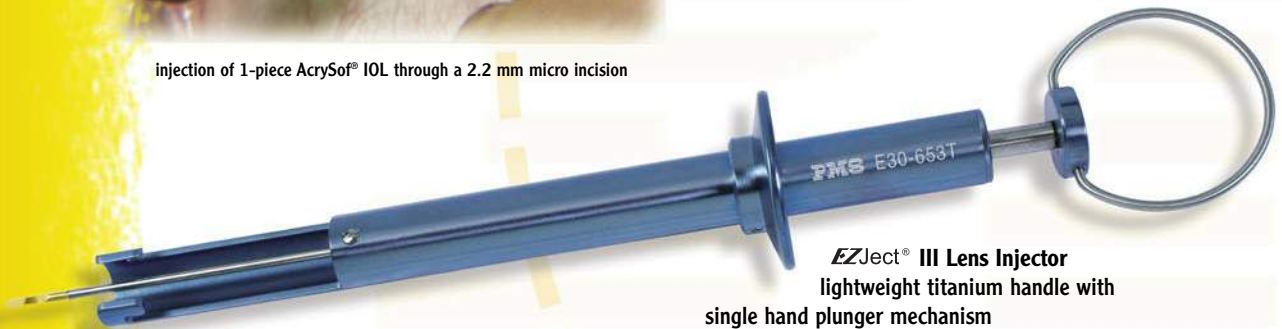
E30-652T

for 1-piece and 3-piece AcrySof® 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

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

Gold tip for good visibility
through the cartridge

Patent pending



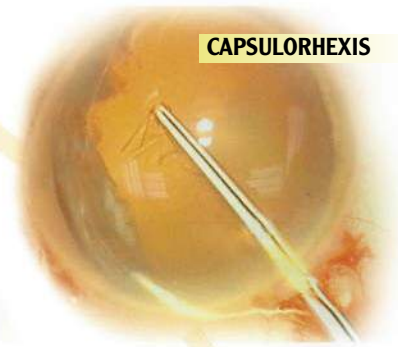
EZject®
IOL Inserter Forceps
all titanium body, thin
and smooth jaws, 11.0 cm
E30-654T

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

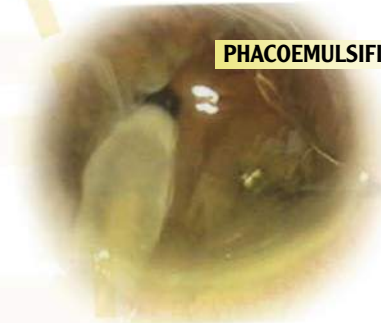


Lens Implant / Euro Cent comparison



CAPSULORHEXIS

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.

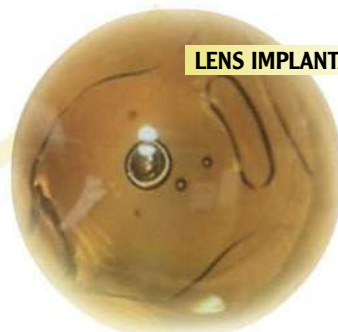


PHACOEMULSIFICATION

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.



ASPIRATION



LENS IMPLANTATION



“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



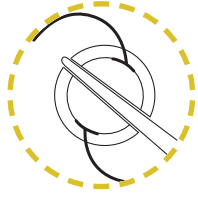
**Kuglen
Iris & IOL Manipulator**
E15-564R straight
E15-565R angled





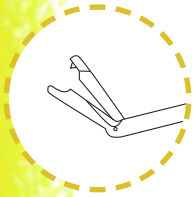
Just got easier!

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



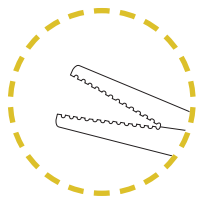
EZCut®
Leopold Soft IOL Cutter
scissors style cutting blades
with fixation pin at the front, 11.0 cm
E30-631T

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

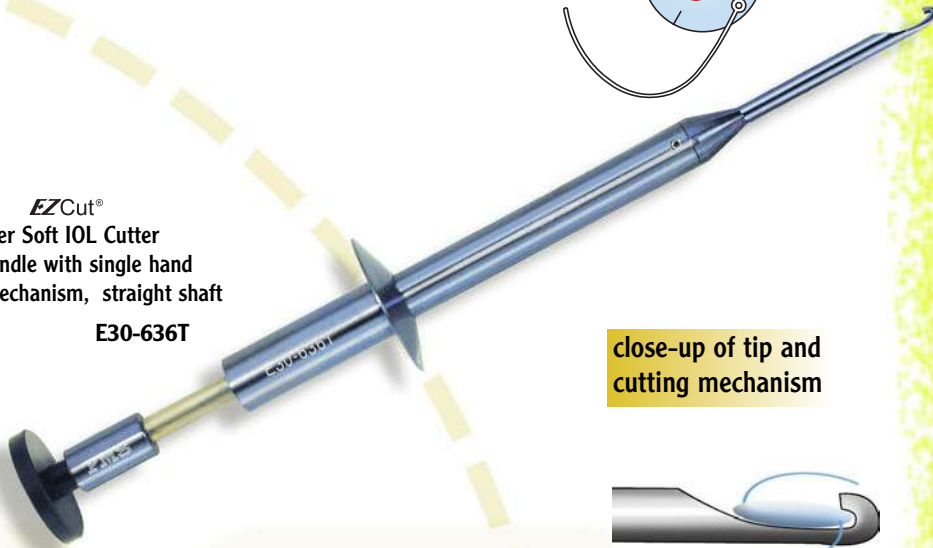
for "crisscross technique"
IOL removal



Cuts any foldable IOL

IOL

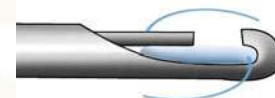
EZCut®
Alexander Soft IOL Cutter
titanium handle with single hand
plunger mechanism, straight shaft
E30-636T



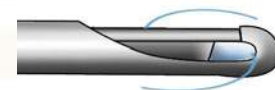
close-up of tip and cutting mechanism



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.

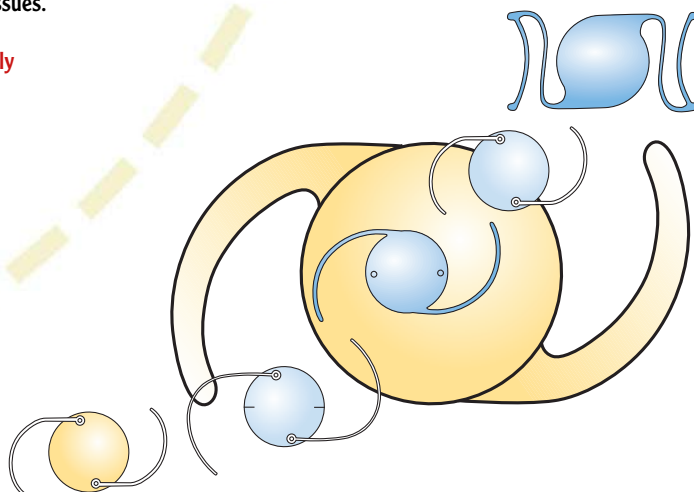
FEATURES AT A GLANCE

- 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

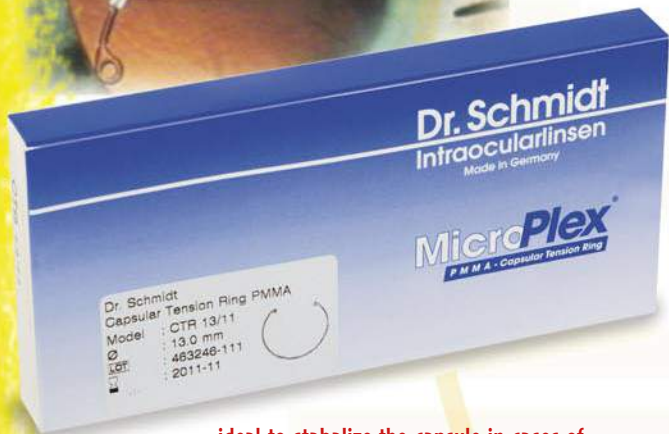
CATARACT INSTRUMENTS



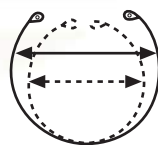
Spatulated tip with a micro hook inside for effective and reliable catching, holding and injecting of the Capsular Tension Ring. The Ring can be implanted in both clockwise or counterclockwise directions.



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.



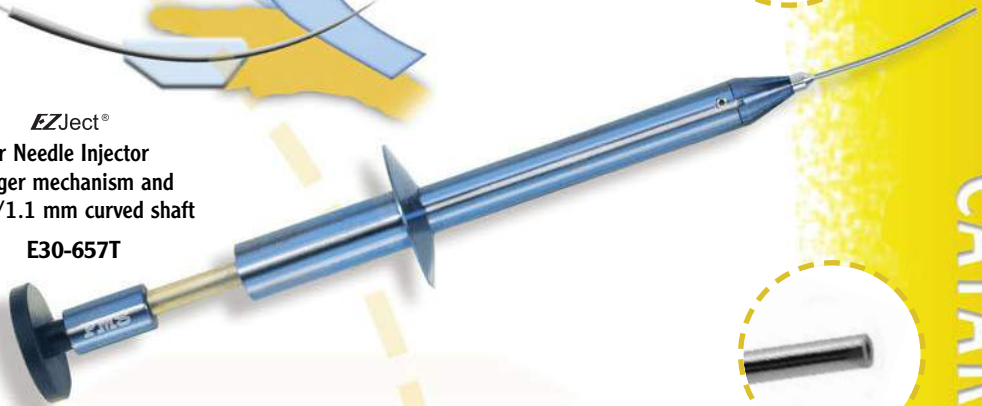
Manufacturer:
Dr. Schmidt Intraocularlinsen,
Germany



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



PMS TRADEMARKS

EZFit[®]

EZChange[®]

EZSert[®]

EZCut[®]

EZFix[®]

EZFIO[®]

EZFold[®]

EZGrip[®]

EZHold[®]

EZJect[®]

EZWash[®]

EZLock[®]

EZLoad[®]



PMS



KERATOPREFRACTIVE





KERATO REFRACTIVE

CORNEAL TREPHINE INSTRUMENTS . 138-139

CORNEAL TRANSPLANT SYSTEM 140

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LASIK & PRK INSTRUMENTS 148-157

LASEK INSTRUMENTS 158-159

AK INSTRUMENTS & DIAMOND KNIVES .. 160-161

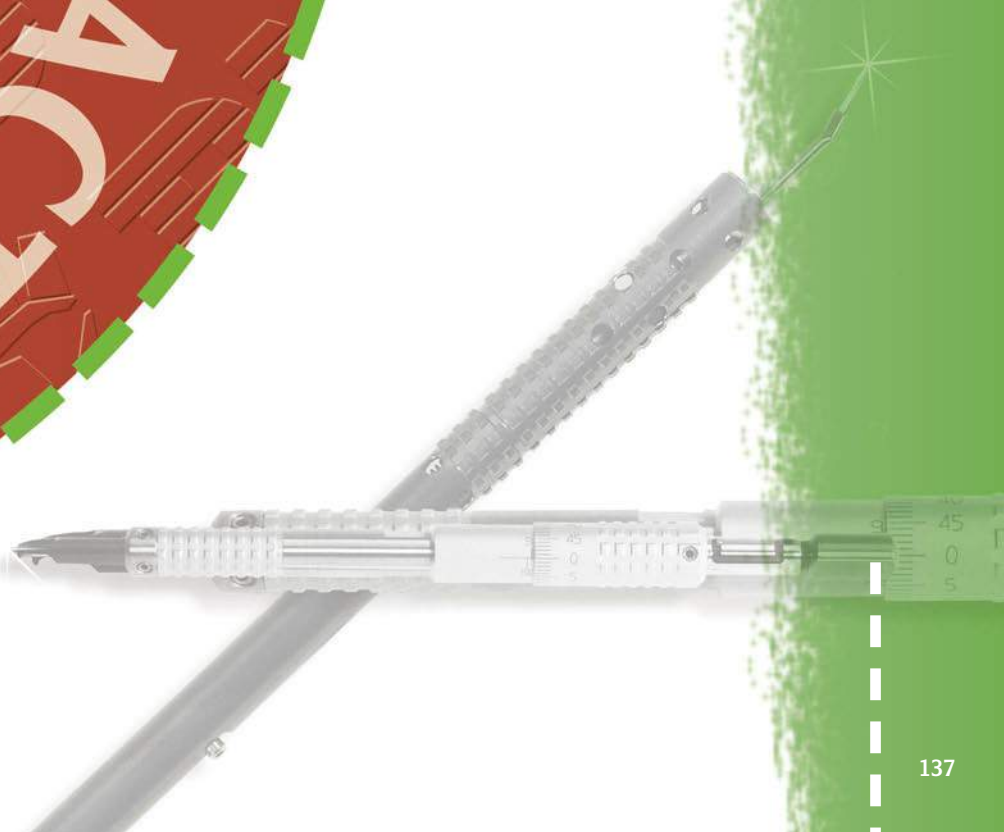
LRI INSTRUMENTS 162-165

TORIC IOL'S & CORNEAL RINGS 166-167

ICL® INSTRUMENTS 168-171

DSEK/DLEK INSTRUMENTS 172-173

DSAEK INSTRUMENTS 174-175





CORNEAL TREPHINE INSTRUMENTS

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



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

E40-530L+ size

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

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



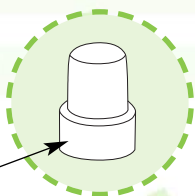
EZFit®
Universal Trephine Handle
adjustable spring arms to fit
short trephine blades E40-530S+
E40-531

New

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



universal hub, 10 mm dia.



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

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



handle is supplied without blade

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

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

* by special order only, 4-6 week delivery

CORNEAL TREPHINE INSTRUMENTS

PMS



"Free Hand" corneal graft trephination

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

*E40-530S+ size

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



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

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

E40-533



10.0 mm to 11.0 mm are placed here

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

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

E40-540

for accurate donor button preparation

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

E40-541



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

E40-542

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

E40-544

to cover cornea tissue

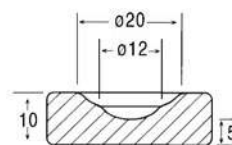


Large Teflon Cutting Block...
for universal use

E40-543

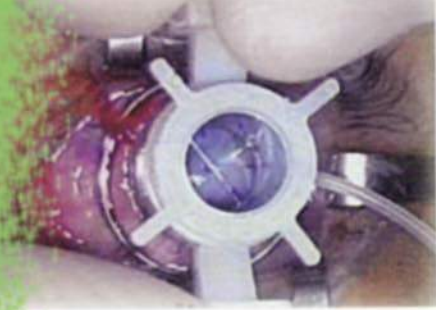


supplied without E40-533 handle



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

KERATOREFRACTIVE



CORNEAL TRANSPLANT SYSTEM

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



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

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

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

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



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

Not for sale in the UK and USA.

CORNEAL MARKERS

PMS

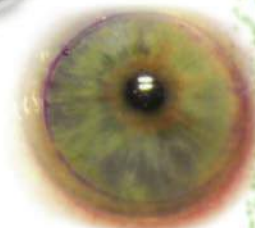
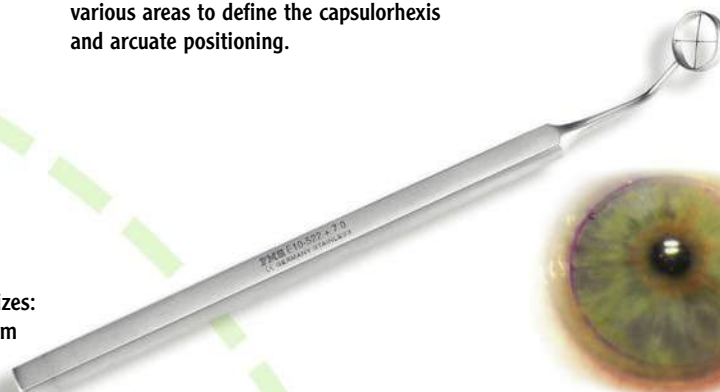


Corneal Markers - are being applied in various areas to define the capsulorhexis and arcuate positioning.

Optic Zone Markers

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

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



marking of the recipient cornea

Thornton

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

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

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



eight-blade marker in situ

Anis

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

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



ink markings of suture placement sites

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



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

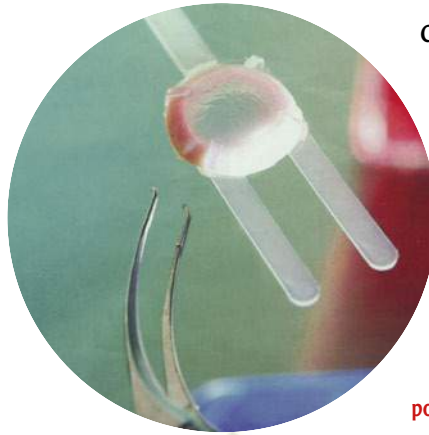
*also available on titanium round handle

KERATOREFRACTIVE

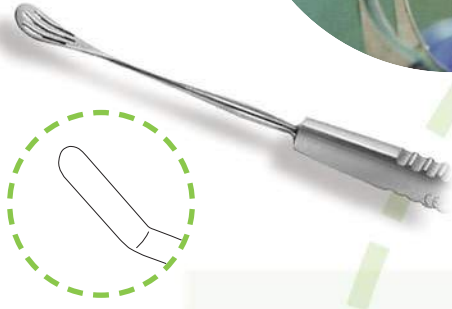


slotted spoon shaped blade is ideal for corneal button transfer and to lift contact lens bandage from bottle and place on patient's eye following LASEK

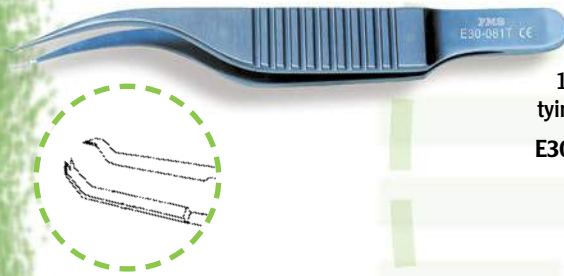
CORNEAL TRANSPLANT FORCEPS



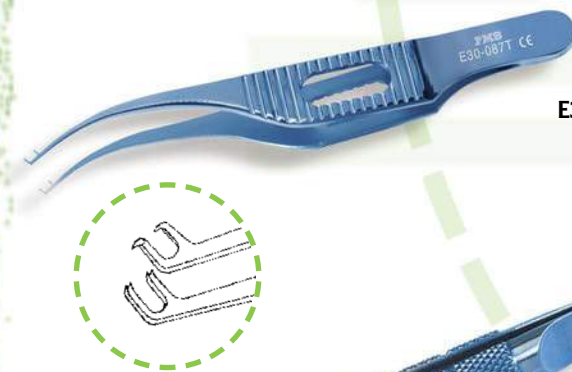
Corneal Donor Tissue is of great value to the recipient. Thus, it should be controlled and selected by specialists, stored with utmost care and only handled using Precision Micro Surgical instruments of superior quality material. Using the double-armed forceps, you can stabilise the corneal graft in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



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



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



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



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

CORNEAL SCISSORS



Corneal Section & Transplant Scissors

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



Castroviejo
Corneal Section Scissors
uneven length blades

E25-040 small, right

E25-041 small, left

outer blade is 0.5 mm longer than inner blade

E25-050 medium, right

E25-051 medium, left

E25-060 large, right

E25-061 large, left

ideal for wound enlargement



Castroviejo

Universal Corneal Scissors
rounded blunt tips, 10.0 cm

*E25-011 small blades, light curve

*E25-015 medium blades, light curve

*E25-013 medium blades, medium curve

*E25-019 large blades, strong curve

*also available with sharp tips



Katzin

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

E25-100 right

E25-101 left

ideal to complete corneal trephination



CURVED CORNEAL SCISSORS SPECIFICATIONS

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

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

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

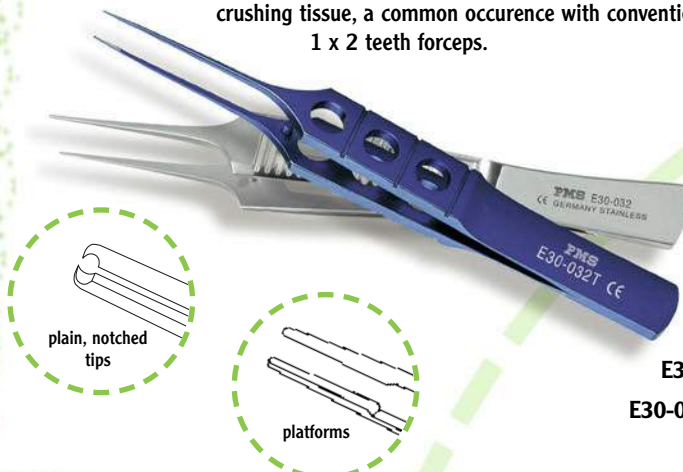


KERATORREFRACTIVE



CORNEAL SUTURE FORCEPS

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



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

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



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



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

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



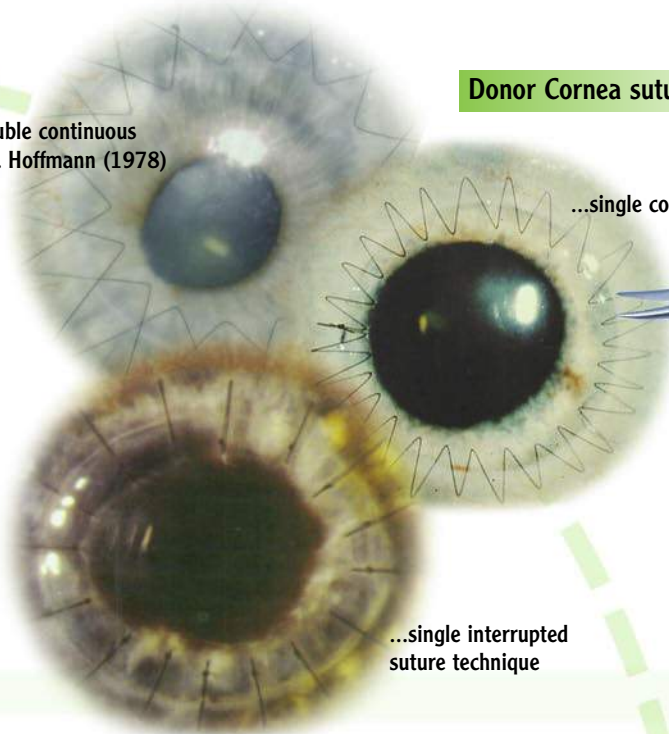
Troutman-Barraquer
Corneal Suture Forceps
ultra fine jaws, 4.5 mm platform,
1 x 2/0.12 mm teeth, 8.5 cm
E30-045T oblique 45°
E30-047T straight 90°

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



Donor Cornea sutured in place using...

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



...single continuous

2:1

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

ideal for 11-0 to 8-0 sutures

...single interrupted
suture technique

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



excellent for corneoscleral fixation,
grasping conjunctiva and fine suture tying

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



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

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



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

KERATOPREFRACTIVE



*Instrument sets
are presented as
guidelines only*



E10-114



E10-548



E30-093T



E35-251



E10-690T

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

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

FOR CORNEAL TRANSPLANT SURGERY ADD



donor cornea being placed on the host bed



supplied without E40-533 handle



E40-540

FOR CORNEAL TRANSPLANT SURGERY ADD

A7034 Hessburg-Barron Vacuum Trephine, page 140

A7048 Barron Donor Marking Punch, page 140

E40-530S+ Corneal Trephine Blade, page 139

E40-533 Trephine Blade Holder, page 139

E40-540 Corneal Trephine Punch, page 139

FOR CORNEAL SECTION ADD

E25-070 Troutman Right Corneal Section Scissors, page 147

E25-071 Troutman Left Corneal Section Scissors, page 147



E25-070

FOR CORNEAL SUTURING ADD

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

E30-418 Paufigue Universal Suture Forceps, page 145

E35-211 Barraquer Micro Needle Holder, page 145



E30-411

MISCELLANEOUS PRODUCTS

37-405 PVA Eye Spears, page 155

52-100 Ink Marking Pen, page 151

EZWash® Sterilising Trays, see section

37-405



KERATOPREFRACTIVE



LASIK INSTRUMENTS

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



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

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



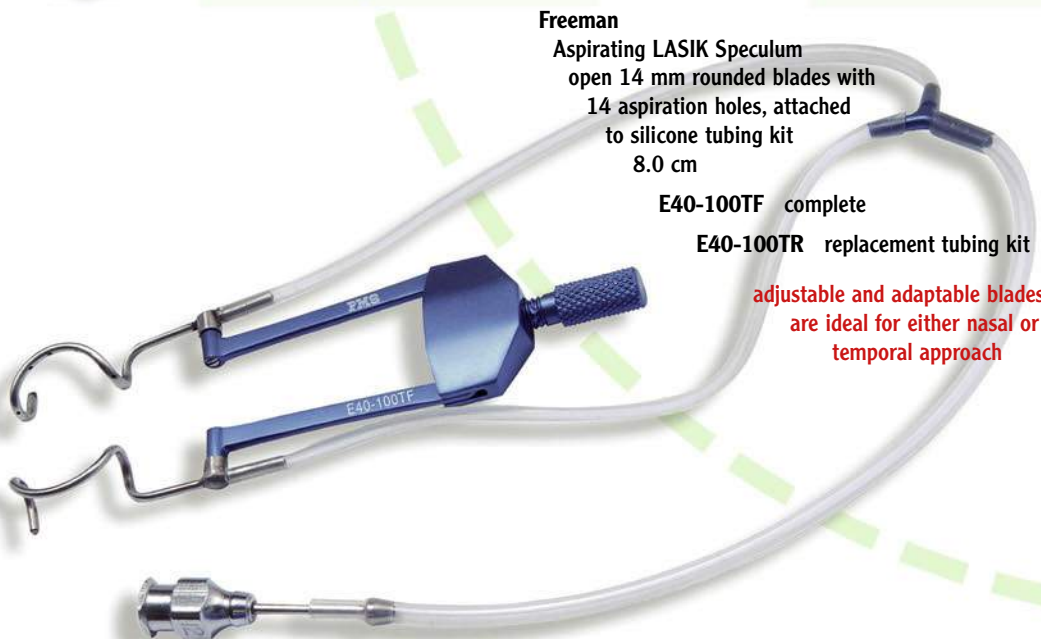
Machat
LASIK Temporal Speculum
open 14 mm V-shaped blades, 8.0 cm
***E40-100TM**

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



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

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



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

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

*on request also available in stainless steel



Nasal Placement

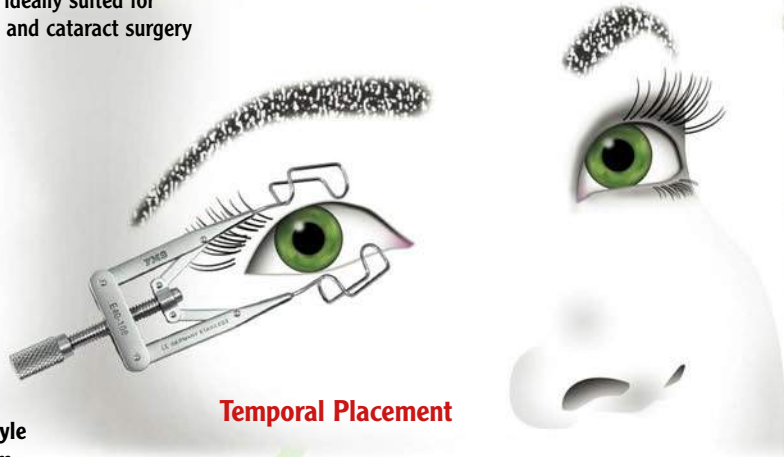
Retracting the lids - many surgeons prefer the adjustable Lieberman style speculum which retracts the lids sufficiently to provide unobstructed access for the microkeratome suction ring (see page 157).

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



Reversible Eye Speculae -

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



Temporal Placement

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





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



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

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



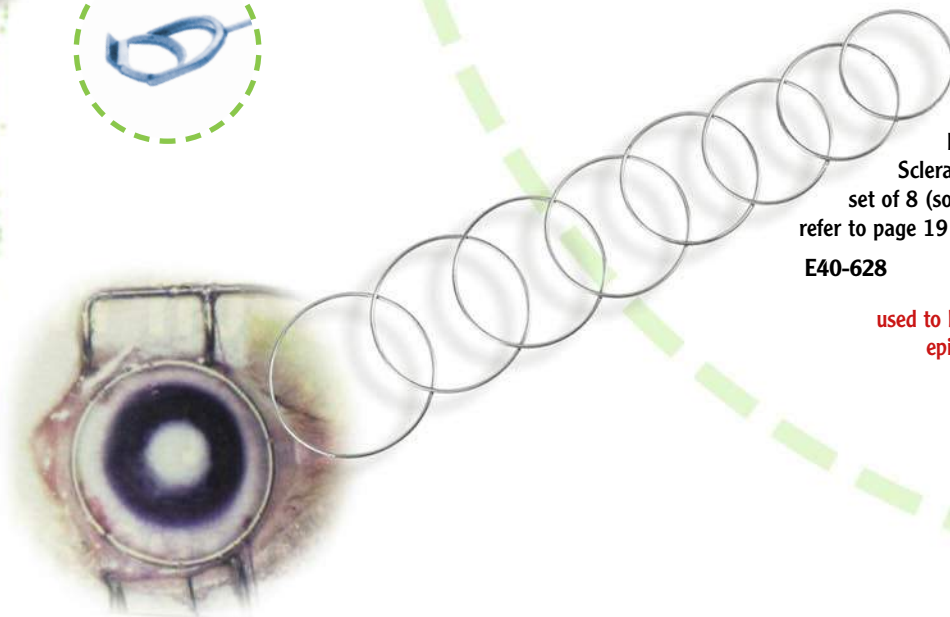
Gimbel
LASIK Atraumatic Stabilisation Ring
open 13 mm ID swivel ring
with 9 mm cutout, 13.0 cm
E10-513G stainless steel
E10-513TG titanium

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



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

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



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

used to be fixed to the episclera with sutures



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

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



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

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



circular opening maximises visibility during marking

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



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



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



LASIK INSTRUMENTS

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



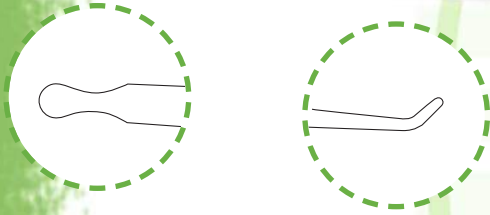
Slade
Flap Spatula/Elevator
 vaulted 12 x 2 mm wide blade,
 smooth tip, 11.5 cm
E15-371T

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



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

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



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

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

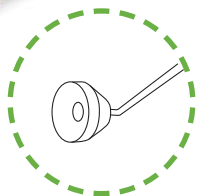


Caro
Flap Smoother
 angled, hemispherical tip, 11.5 cm
E15-383T

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



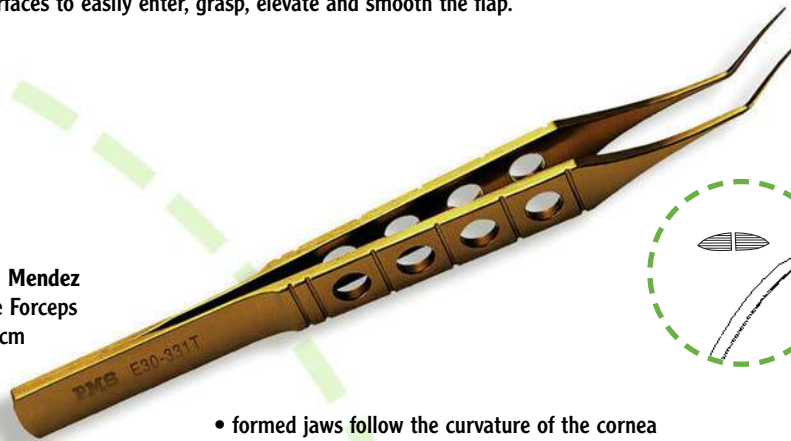
Caro-Avalos
Flap Smoother/Conformer
 angled, funnel shaped tip
 11.5 cm
E15-385T





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

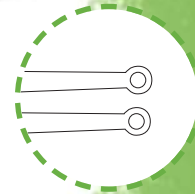
Mendez
LASIK Multipurpose Forceps
11.5 cm
E30-331T



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

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

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



ideal for atraumatically grasping and securely lifting the flap

E30-332T

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



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

E30-333T

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



used for controlled peeling of the flap from the stroma

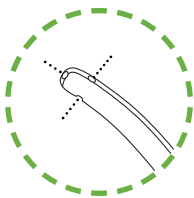




LASIK INSTRUMENTS



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



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

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

*606-25 disposable

E20-525 reusable

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

All Glass Syringe (LL cone)

E20-801 1 ml

E20-802 2 ml



Slade

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

*613-26 disposable

E20-526 reusable

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



Banaji

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

*604-25 disposable

E20-529 reusable

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



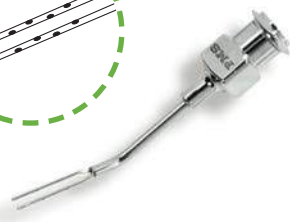
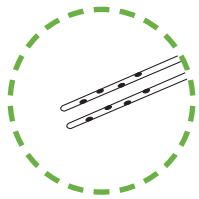
Vidaurri

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

*600-06 disposable

E20-522 reusable

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



* disposable cannulae, sterile 10 per box



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

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

37-405

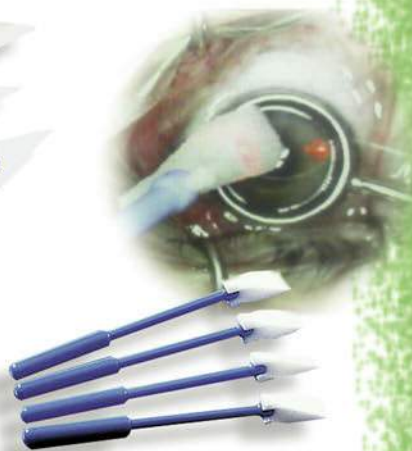
for absorbing fluid in and around the orbital
area during LASIK and refractive procedures



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

37-800

to remove excess fluid and aligning
and smoothing the corneal flap



PVA LASIK Drain Rings
sterile (box of 20)

37-830 11.5 mm opening for nasal hinge

37-831 10.5 mm opening for superior hinge

used to control stromal bed
hydration during laser ablation



PVA LASIK Shields
sterile (box of 20)

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

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

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

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



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

37-450

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



photographs do not correspond to the actual size

KERATOREFRACTIVE



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



E42-123

BASIC PRK INSTRUMENT SET
complete, consisting of 1 each:

E40-100L LASIK Speculum, page 148

E10-512B PRK Fixation Ring, page 150

E10-522+7.0 Corneal Marker, page 160

E15-353 Fukasaku Hockey Knife, page 157

E15-365T Lindstrom Spatula, page 156

E30-460 McPherson Tying Forceps, page 24

KERATOREFRACTIVE



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

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



Simpel
LASIK Flap Elevator & Repositor
double ended, 14.5 cm

E15-366T

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



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

E15-373T

delicate pick and curved spatula
to open and manipulate the flap



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

E15-375T

to detach the flap edge
and to open the flap

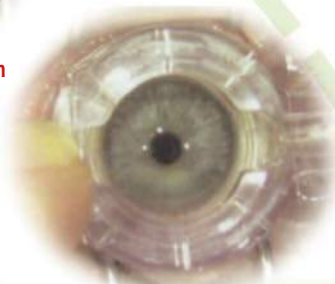




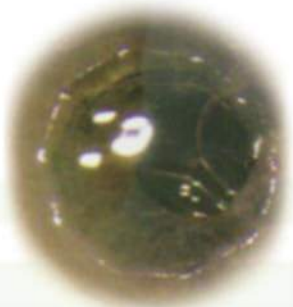
Incisional and ablative corneal procedures



LASEK using alcohol solution



epi-LASIK with mechanical microkeratome



fs-LASIK with femtosecond laser

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

Fukasaku Epithelium Removal Knife "Hockey" style, 12.5 cm

E15-353 all stainless steel

E15-353T on titanium handle

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



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

E15-363

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



EZWash® Sterilising Tray without instruments E45-113

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

E40-100 Liebermann Speculum, page 55

E10-513G Gimbel Stabilising Ring, page 150

E10-673 Mendez Corneal Marker, page 151

E15-363 Fukasaku Flap Spatula, page 157

E15-372 Katzen Flap "Unzipper", page 152

E15-381T Burratto Flap Protector, page 152

E20-522 Vidaurri LASIK Cannula, page 154

E30-330T Mendez LASIK Forceps, page 153



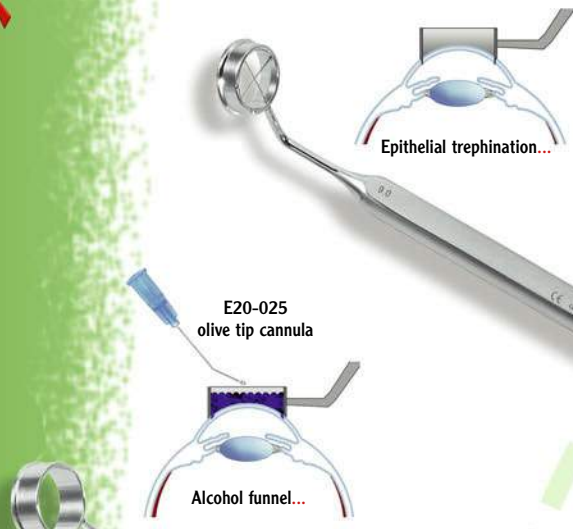
KERATOREFRACTIVE



LASEK INSTRUMENTS FOR CAMELLIN TECHNIQUE

KERATOREFRACTIVE

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



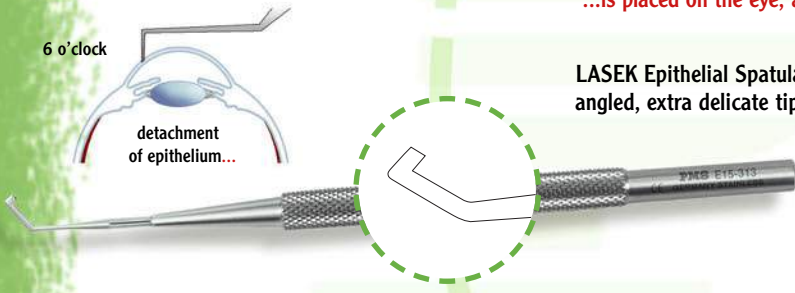
LASEK Trephine
with central cross hair,
semi-sharp edge, 10.5 cm
E15-300+ 8.0 mm
E15-300+ 9.0 mm
E15-300+ 9.5 mm

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



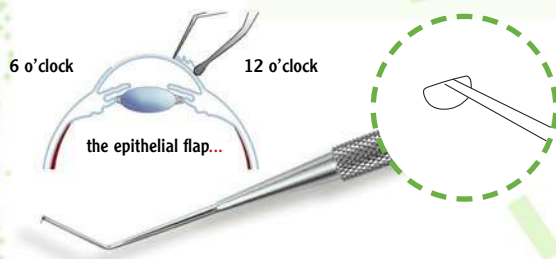
LASEK Alcohol Funnel
dual concentric rings, blunt, 11.0 cm
E15-310+ 8.5 mm for 8 mm flap
E15-310+ 9.5 mm for 9 mm flap
E15-310+ 10.0 mm for 9.5 mm flap

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



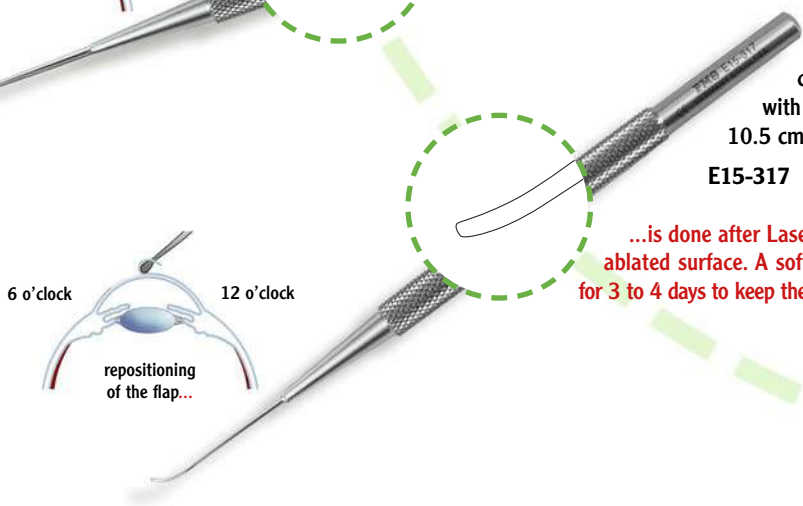
LASEK Epithelial Spatula
angled, extra delicate tip, 10.5 cm
E15-313

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



LASEK Epithelial Micro Hoe
semi-circular 2 mm wide tip, 10.5 cm
E15-315

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



LASEK Epithelial Flap Repositor
curved, blunt tip with smooth edges,
10.5 cm
E15-317

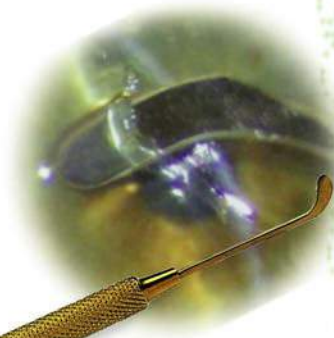
...is done after Laser surgery to protect the ablated surface. A soft contact lens is applied for 3 to 4 days to keep the flap in place.

LASEK INSTRUMENTS FOR VINCIGUERRA TECHNIQUE

PMS



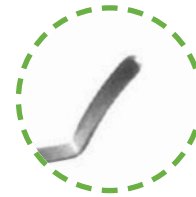
“Curtain Technique” - the initial incision is made off-center of the pupil. After an Alcohol/BSS solution is applied the flap is dissected underneath the epithelium and peeled from the center outward to the limbus.



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

E15-355T

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



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

E15-316

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



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

E15-318

to efficiently dissect and fold back the flap



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

E40-100L Slade LASIK Speculum

E15-300+ 9.0 LASEK Trepphine

E15-310+ 9.5 LASEK Funnel

E15-315 LASEK Micro Hoe

E15-317 LASEK Repositor

E20-025 Alcohol Cannula

E45-162 Instrument Tray



Silicone Instrument Tray
(160x85x20 mm)

E45-162

for secure positioning of 10 instruments

KERATOREFRACTIVE



Maloney
Astigmatic Keratometer
E10-690T

projects multiple rings on cornea for qualitative evaluation of astigmatism



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

*E10-522+ size

ideal to define arcuate positioning



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

*E10-562

used with the Bores axis marker for easy alignment



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

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

*E10-572

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



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

AK MICROMETER DIAMOND KNIVES

PMS

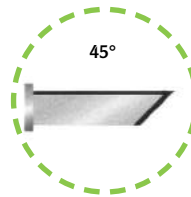


Incisional Corneal Procedures - are used to treat regular astigmatisms by flattening the corneal curvature in one meridian, utilising either transverse (straight) or arcuate (curved) incisions across the steep meridian.

Back & Front Cutting Knife
vertical and 45° cutting edges

*E10-260

suitable for all types of
keratorefractive incision

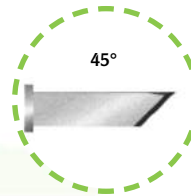


Gem Quality Diamond Knives. A gem quality diamond is considered to be free of inclusions visible at 10x magnification.

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

E10-262

for both Russian and American technique



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



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

E10-263

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



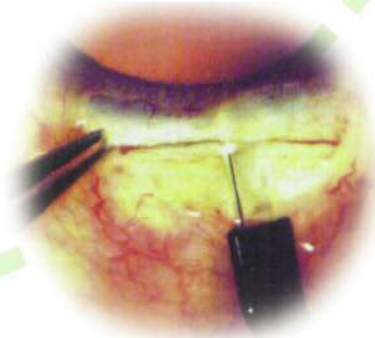
Footplates of PMS micrometer diamond knives are highly polished and coated with titanium nitride for smooth gliding on the corneal surface.

CURRENT INCISIONAL AK TECHNIQUES

performed with arcuate (curved) cuts

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

performed with transverse (straight) cuts



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

*also available with 0.17 mm thick standard diamond blades

KERATOREFRACTIVE



LRI INSTRUMENTS

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

KERATOREFRACTIVE



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

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



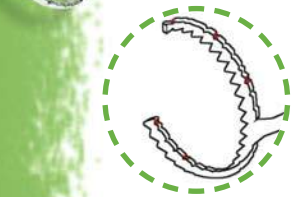
Lu-Mendez
 LRI Guide/Fixation Ring
 measures from 0-150° on both sides, 13.0 mm ID, 11.5 cm
E10-561

for globe fixation and axial alignment of corneal incisions



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

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



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

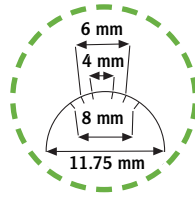
E10-573

fits with degree gauge of max. 13.0 mm ID





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



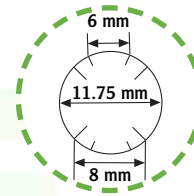
LRI Marker
single marking blade for
4, 6 and 8 mm chord length
E10-573T

markers are designed to be
used with a degree gauge



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

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



LRI Marker/Degree Gauge
rotatable head with thin bevelled
marking lines, 13.0 cm

E10-576T for 6 & 8 mm chord length

E10-578T for 40-60-80 degrees

marks incision size by degrees instead of
chord length; corrects up to 2.5 D of astigmatism

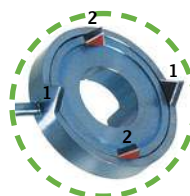
Toric IOL/LRI Marker
low-profile degree gauge,
with adjustable inner
points, 13.0 cm

E10-579T

allows precise marking of the steeper
meridian prior to IOL implantation

1 Fixed points allow to verify the 90° position
as previously marked

2 Inner points are adjustable to align the
steepest axis





LRI INSTRUMENTS

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



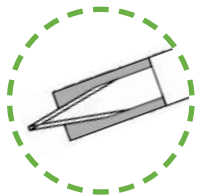
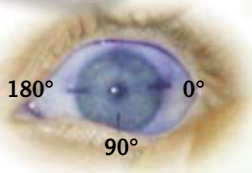
LRI Slit Lamp Gravity Marker
lightweight, all titanium body with
2-point pendulum marker, 13.5 cm
E10-582T

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



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

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



Donnenfeld
Slit Lamp Preset Diamond Knife
tri-facet 20° blade, 0.25 mm flat tip,
fixed depth setting of 0.6 mm,
10.5 cm
E10-380

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

- E42-127** LIMBAL RELAXING INCISION SET
complete, consisting of the following:
- E10-690T** Astigmatic Keratometer, page 160
- E10-561** Fixation Ring/Degree Gauge, page 162
- E10-572** Astigmatic Axis Marker, page 160
- E10-383** Three-Step LRI Knife, page 165
- 52-100** Marking Pen, page 151

LRI DIAMOND KNIVES

PMS



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

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

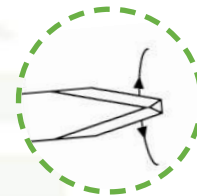
E10-384 0.5 mm

E10-385 0.55 mm

E10-386 0.6 mm



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



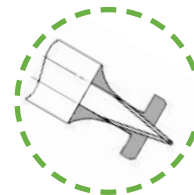
LRI Three-Step Diamond Knife
tri-facet 20° blade, flat 0.4 mm tip,
preset depths of: 0.5, 0.55 and 0.6 mm

E10-383

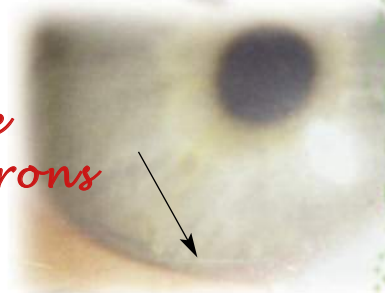
Nichamin
LRI 7-Step Diamond Knife
tri-facet 15° blade, narrow/flat
0.2 mm tip, preset depth settings of:
0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75 mm

E10-387

excellent blade visualisation
while performing the incision

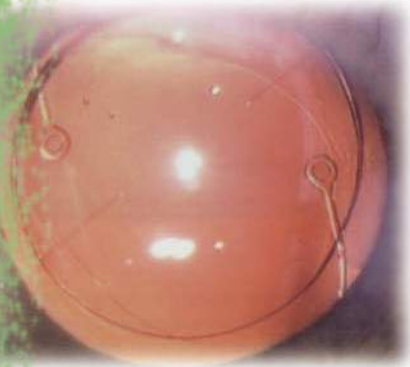


*the preferred depth of the
LRI procedure is 600 microns*



limbal relaxing incision (arrow)
performed with a diamond knife

KERATORREFRACTIVE



Hydrophobic, 3-Piece Toric IOL MS 6116 TU implanted

for more information visit
www.dr-schmidt-iol.de

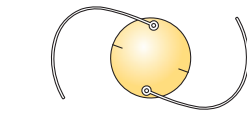
MATERIAL

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

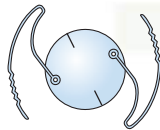
FEATURES

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

LENS STYLES



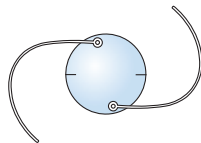
- Z-shaped haptics for implantation into capsular bag
- extended C-loop for implantation into ciliary sulcus
- undulated extended C-loop for piggyback implantation into the ciliary sulcus



DIOPTER RANGE

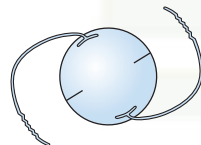
SPHERE

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



CYLINDER

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



Discover Astigmatism
 and its Correction
 through our
Toric Demonstrator !



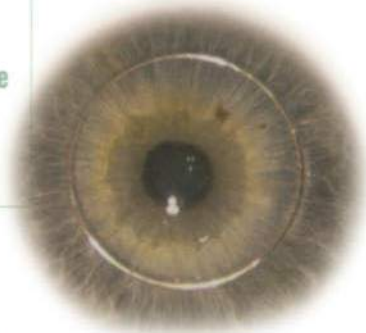
The Toric Demonstrator #100010 simulates why a toric lens is useful for patients having corneal astigmatism.

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



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

— Jörg H. Krumeich, MD

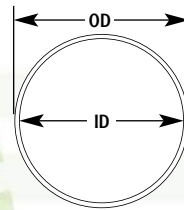


Krumeich ring in place

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

For more information:

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



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

Artificial Iris



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



• Models: Artificial Iris with or without Fiber Layer

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



IMPLANTABLE CONTACT LENS INSTRUMENTS

KERATOREFRACTIVE



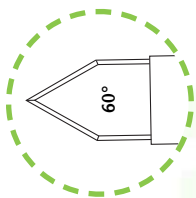
Kraff-Lieberman
Temporal Eye Speculum
 solid 15 mm blades, 8.0 cm
E40-104T titanium
E40-104 stainless steel

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

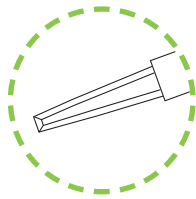


Fine-Thornton
Globe Fixation Ring
 3/4 open swivel ring with
 nine blunt teeth, 13.0 cm

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



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



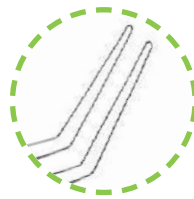
EZCut®
Zaldivar Style Sapphire Knife
 angled, trapezoid shaped blade,
 0.55-1.0 mm width, 13.0 cm
***E10-181**

ideal for making the side port incision



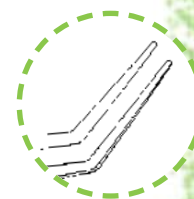
EZCut®
Micro Incision Sapphire Knife
 angled, spear shaped blade,
 0.9-1.2 mm width, 13.0 cm
***E10-170**

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



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

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



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

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



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

E30-603T



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

E30-604T

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



ICL® is a trademark of STAAR Surgical Company



*Instrument sets
are presented as
guidelines only*



Foldable Phakic Lens Implantation

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

E15-562T IOL Manipulator, page 35

E30-603T Phakic IOL Forceps, page 169

E10-360 Micro Diamond Knife, page 69



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

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

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

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

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

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

E10-381 Zaldivar Style Diamond Knife, page 69

for Iridectomy add

EZChange®

Zaldivar Style Iridectomy Scissors

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

E25-621Z

for easy iris cutting
through side port
incision



EZChange®

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

E30-623K

for iris pickup



instrument tips

are coloured for

easier identification;

MAGENTA for scissors

BLUE for forceps and



ICL® is a trademark of STAAR Surgical Company



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



EZGuard®
Vukich ICL® Manipulator
0.6x1 mm oval tip, 13.0 cm
E15-516P



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

EZGuard®
Deitz ICL® Tucker and Slider
0.75 mm forked tip, 13.0 cm
E15-517P



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

EZGuard®
Deitz ICL® Slider
0.8 mm dia. ring tip, 13.0 cm
E15-518P



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



PMS EZGuard® Safety Instruments FEATURE:

AND THE MOST POPULAR INSTRUMENT TIPS

PROTECTION

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

PERFORMANCE

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

SIMPLICITY

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

MATERIAL

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



E15-423P



E15-561P



E15-501P



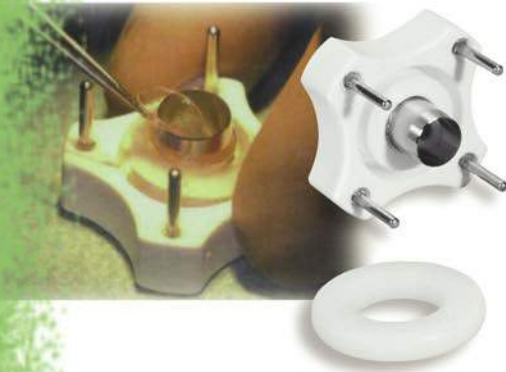
E15-565P



E15-656P



- also available on round handle - made of:
- stainless steel, page 21
 - titanium, page 34
 - aluminum, page 94



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

more information on page 140



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

STERILE
DISPOSABLE

for punching the endothelial donor button

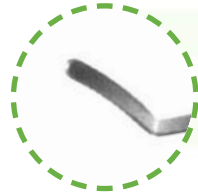


Corneal Dissectors
12 mm long x 3 mm wide blade, semi-sharp front end, 11.5 cm

*E15-331 angled, straight

*E15-333 angled, curved

for intrastromal dissection



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

*E15-335

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



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

*E15-341 Reverse Sinsky Hook, 0.2 mm

*E15-343 Z-shaped Hook, 0.15 mm

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



for tucking the donor lamella edge

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



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



corneal graft trephination of recipient eye

more information
on page 140

A7034 7.5 mm

A7036 8.0 mm

A7038 8.5 mm

A7040 9.0 mm

STERILE
DISPOSABLE

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



for marking the recipient cornea

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

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

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

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



EZSert®
Donor Tissue Insertion Forceps
vaulted, very thin 12.0 mm shanks with
ultra fine platform tips and heel stop, 10.5 mm
E30-541T titanium
E30-541 stainless steel

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



KERATORREFRACTIVE



DSAEK INSTRUMENTS

for patient preparation

KERATOREFRACTIVE



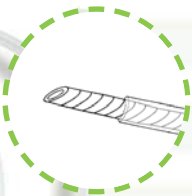
Shapira
 DSAEK Eye Speculum
 open 14 mm round blades,
 blunt distal ends, 8.0 cm
E40-100P stainless steel
E40-100TP all titanium

ideal for micro lamellar keratoplasty



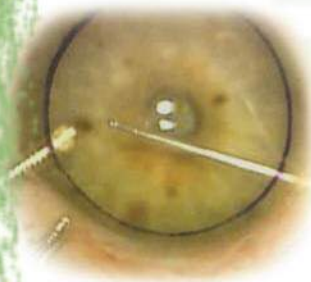
DSAEK Marker
 double-ended, low profile rings of
 8.0 mm and 9.0 mm dia., 12.0 cm
E10-529

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



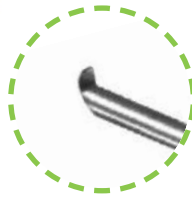
Gispel
 DSAEK Anterior Chamber Maintainer
 20GA/0.9 x 6 mm self-retaining, serrated tip
 attached to silicone tubing with LL-adapter
E20-020SR

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



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

*for gently stripping and removing
 the endothelial layer*



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



for insertion & positioning



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

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

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



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

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

E15-344T titanium
E15-344 stainless steel



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

illustration shows inverted position

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

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

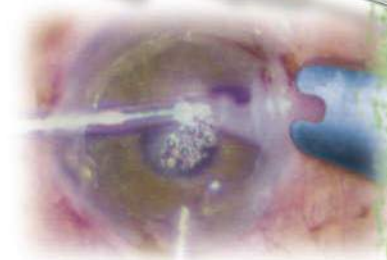
E30-549T

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



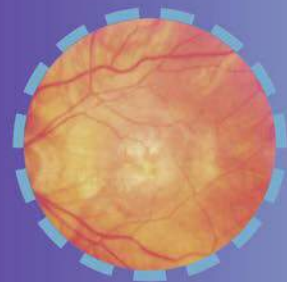
the donor lamella is pulled into the funnel-shaped
 part of the insertion guide using E30-549T forceps

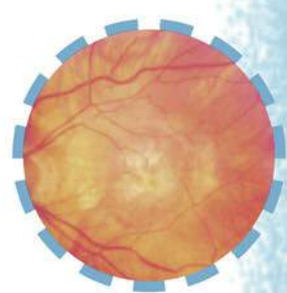
NOTE:
 The medical information is not intended as instructional materials for
 the performance of the demonstrated procedures or techniques.



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

PMS





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WELCOME
to the PMS World
of Vitreo Retinal
Products.

PMS offers one of the widest ranges of stainless steel and special alloy products for a unique engineering miracle: THE HUMAN EYE.

PMS *EZ*Grip®, *EZ*Change® and *EZ*Cut® vitreoretinal forceps and scissors offer the specialist the perfect instruments for grasping, manipulating and cutting intraocular tissue.

PMS VR instruments are welded to attain the extra durability, longevity and reliable performance that makes PMS known around the world as quality leader in ophthalmic surgical instrumentation and related products and equipment.

To protect these instruments we are able to offer an intelligent solution. The PMS sterilising tray system is designed to hold delicate instruments securely and allow them to be thoroughly cleaned by automated washer/disinfector machines.

We invite you to learn about all the outstanding products we have to offer.



20GA/0.9 MM EZCut® STANDARD SCISSORS

PMS



scissors have sharp tipped blades, unless otherwise indicated

Straight Scissors

E25-600S blunt tips

E25-602S sharp tips

sharp blades allow cutting of peripheral membranes; blunt blades are ideal for cutting near the retinal surfaces

lightweight titanium handle reduces hand fatigue while providing lasting durability

Curved Scissors

E25-603S

curved to a 4 mm radius blades enable safe cutting along the contour of the retina surface

Horizontal Scissors

E25-604S

allow easy cutting and dissection parallel to the retina and delaminating membranes adherent to the surface

Vertical Scissors

E25-605S 45°, 1.6 mm long

E25-608S 80°, 1.9 mm long

for cutting vertical to the retina surface and resection of delicate membranes

Kroll (Vertical)

Scissors with Membrane Pick
angled 45° hooked blade

E25-605SK

hooked blade for lifting and manipulation of membranes during cutting process

20GA/0.9 MM SCISSORS SPECIFICATIONS

Straight scissors blade length 2.9-3.0 mm

Curved scissors blade length 2.9-3.0 mm

Angled scissors blade length 1.5-1.6 mm

Vertical scissors blade length 1.6-1.9 mm

VITREORETINAL INSTRUMENTS



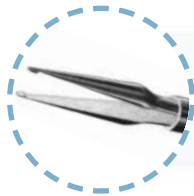
20GA/0.9 MM EZGrip® STANDARD FORCEPS



“squeeze handle“ design offers synchronous, safe and smooth tip closure (important when working close to the retina)

Crocodile Forceps serrated 4 mm jaws
*E30-672S

ideal for general purpose membrane peeling and manipulating thicker and more fibrotic membranes



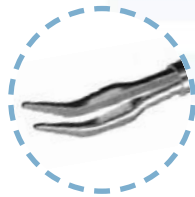
End Gripping Forceps small tip 4 mm jaws
*E30-674S

for grasping and manipulating fine membranes, ideal for (PVR) and difficult macular pucker cases



Hockeystick Forceps grooved 2mm/45° jaws
*E30-679S

for gripping and peeling membranes along the retina surface with good visualization



Pic Forceps smooth 2mm/45° jaws
E30-681S

for grasping and elevating membranes



Side Gripping Forceps smooth 2mm/45° jaws, flat 0.7 mm wide tips
E30-683S

for gripping and pulling peripheral membranes

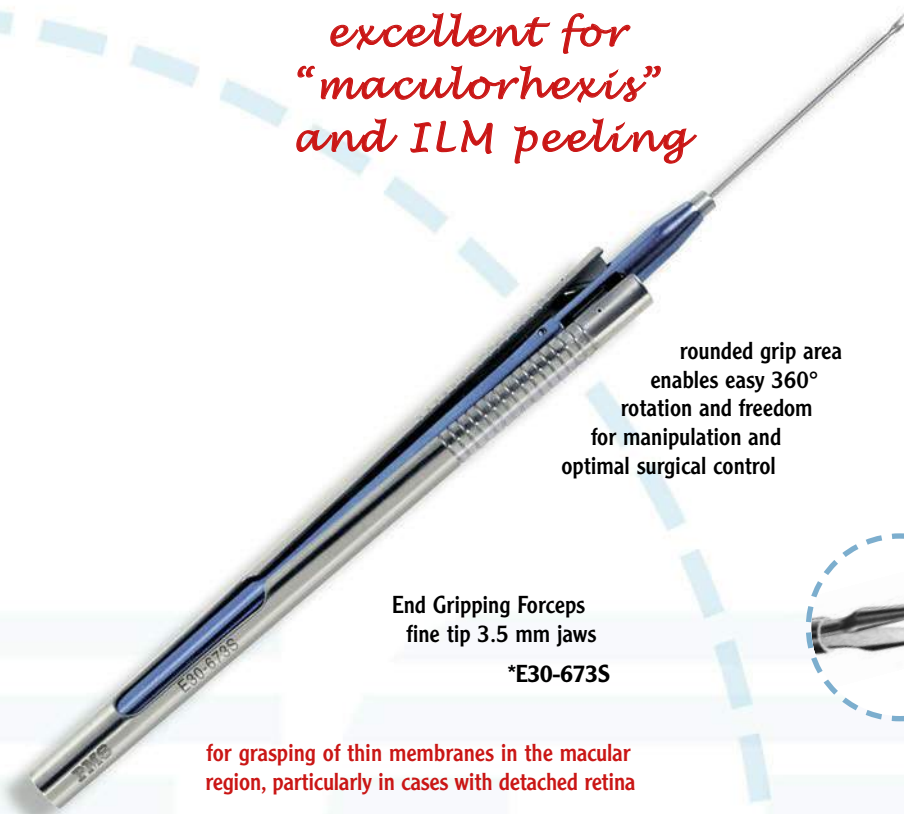
GA/MM CONVERSION DATA & MODELS

- 19GA/1.1 mm, ID 0.70 mm, illuminated
- 20GA/0.9 mm, ID 0.60 mm, standard
- 23GA/0.6 mm, ID 0.33 mm, micro
- 25GA/0.5 mm, ID 0.25 mm, miniature

*also available with titanium tips

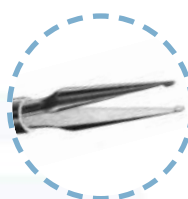


*excellent for
“maculorhexis”
and ILM peeling*



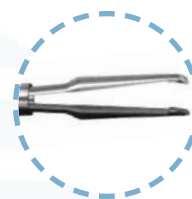
rounded grip area
enables easy 360°
rotation and freedom
for manipulation and
optimal surgical control

End Gripping Forceps
fine tip 3.5 mm jaws
*E30-673S



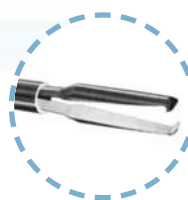
for grasping of thin membranes in the macular
region, particularly in cases with detached retina

End Gripping Forceps
pointed tipped 4.0 mm jaws
*E30-676S straight shaft



effective at lifting, stripping
and peeling fine membranes

End Gripping Forceps
nail-like tipped 3.5 mm jaws
*E30-687S Eckhardt style 90°



for precise grasping of thin
membranes near the macula

End Gripping Forceps
delicate 3.5 mm jaws
with 0.7 mm pick at tip
*E30-678S



NOTE:
The medical informational contained in this catalogue
is for informational purposes only. It is not intended
as instructional material for the use of the
instruments, procedures or techniques.

*also available for 23GA/0.6 mm trocar cannula system, see page 198



Tip Protector for instruments with stationary tips
E15-022



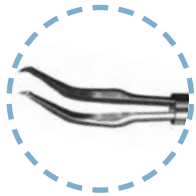
Horizontal Subretinal Scissors sharp 3.5mm/45° blades
E25-604SR

for cutting and dissecting in the subretinal space



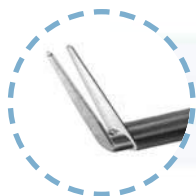
Horizontal Subretinal Forceps narrow 3.0mm/45° jaws
E30-681SR

angled 45° long thin jaws are ideal for grasping...



Horizontal Subretinal Forceps picked 3.5mm/45° jaws
E30-682SR

subretinal membranes through a small retinotomy



Vertical Subretinal Forceps thin 3.5mm/45° jaws
E30-683SR

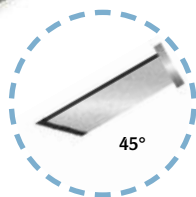


Diamond Subretinal Knife titanium bajonet handle with J-lock mechanism, 0.17 thick x 6 mm blade with double cutting edges

E10-301SR 20°/0.5mm wide

E10-302SR 45°/0.9mm wide

excellent for cutting of subretinal membranes





for PMS Vitreoretinal Instruments
with stationary or removable tips

Tip Protector
for stationary instrument tips

E15-022

for protecting instrument tips during
sterilisation, storage and transportation

Protective Cap
for removable instrument tips

E15-023

Vitreo Flushing Tubes
for stationary instrument tips

E20-424 metal adaptor

E20-424T titanium adaptor

for cleaning/flushing instrument tips
after each use to avoid encrustations

Vitreo Cleaning Adaptor
for removable instrument tips

E20-426T

Cleaning Syringes
for Cleaning Tube and Adaptor
available in 20, 30 and 50 ml,
disposable, sterile (sold singly)

on request

1:2

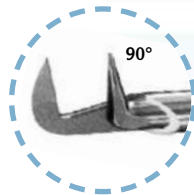
All PMS reusable instruments
are supplied with detailed instructions
for cleaning and sterilisation. General cleaning and
sterilisation advice can also be found on page 10 and 71.



20GA/0.9 MM EZChange® STANDARD SCISSORS TIPS

scissors have sharp tipped blades, unless otherwise indicated

removable instrument tips (360° rotatable)



Horizontal Scissors Tips
straight 3.4 mm blades
E25-600R blunt tips
E25-602R sharp tips

titanium "squeeze handle"
with thread for removable
instrument tips, 10.0 cm
E10-010T

Horizontal Scissors Tip
curved 2.7 mm blades
E25-603R

curved by 12 mm radius blades enable easy cutting along the curvature of the eye ball

Horizontal Scissors Tips
angled 1.7 mm blades
E25-604R2 25°
E25-604R4 45°

gentle angle of blade allows cutting and dissection parallel to the retinal surface

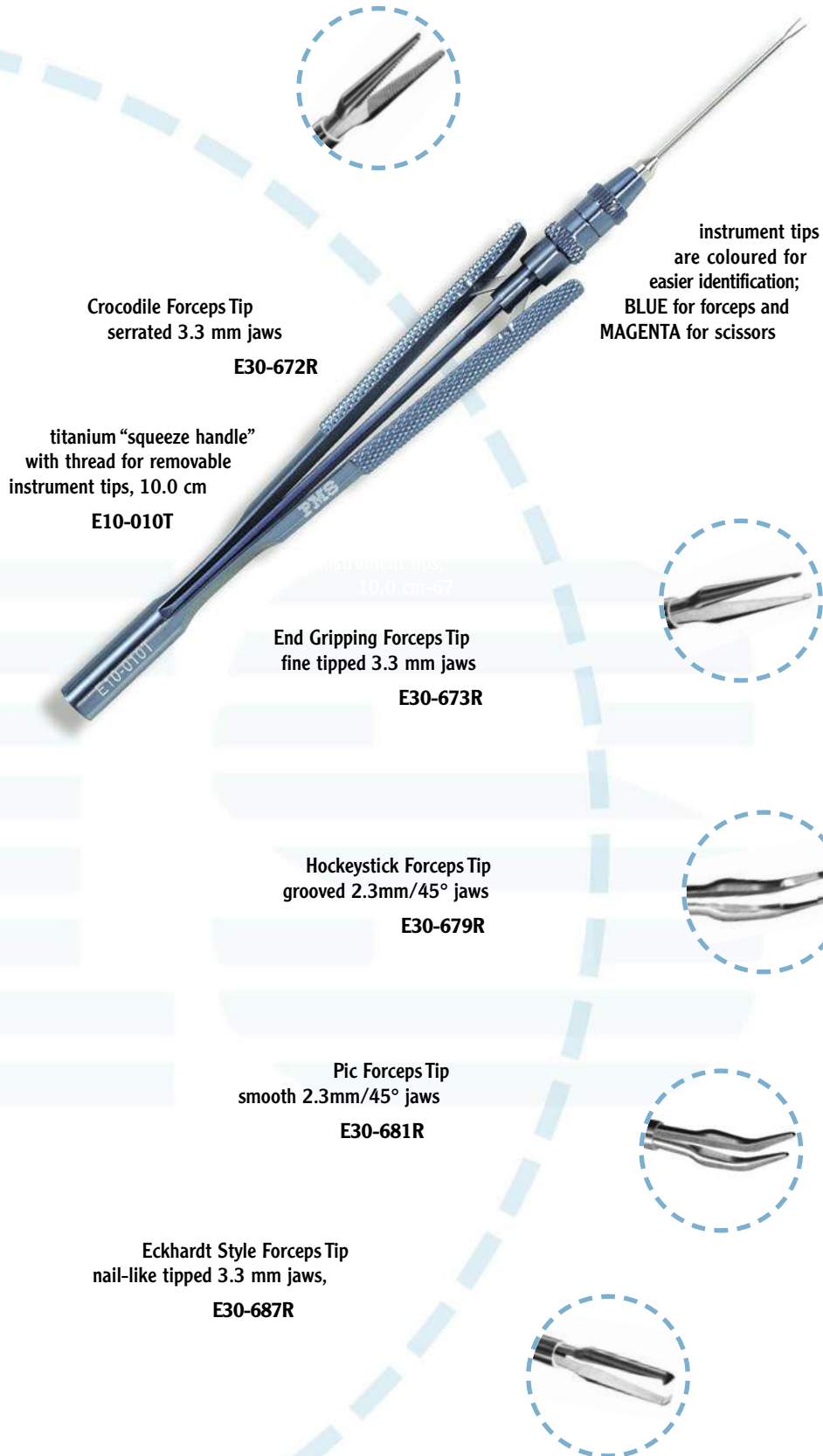
Vertical Scissors Tips
angled 1.5 mm blades
E25-605R 45°
E25-607R 70°
E25-609R 90°

vertical scissors allow powerful, controlled cutting action; distal blade remains stationary during use

Kroll (Vertical)
Scissors Tip with Membrane Pick
hooked 1.1mm/45° blade
E25-605RK

tips and handle sold singly

20GA/0.9 MM EZChange® STANDARD FORCEPS TIPS



Crocodile Forceps Tip
serrated 3.3 mm jaws
E30-672R

titanium "squeeze handle"
with thread for removable
instrument tips, 10.0 cm
E10-010T

instrument tips,
10.0 cm-67
End Gripping Forceps Tip
fine tipped 3.3 mm jaws
E30-673R

Hockeystick Forceps Tip
grooved 2.3mm/45° jaws
E30-679R

Pic Forceps Tip
smooth 2.3mm/45° jaws
E30-681R

Eckhardt Style Forceps Tip
nail-like tipped 3.3 mm jaws,
E30-687R

instrument tips
are coloured for
easier identification;
BLUE for forceps and
MAGENTA for scissors

VITREORETINAL INSTRUMENTS

tips and handle sold singly



23GA/0.65 MM EZChange® MICRO INSTRUMENT TIPS

23GA/0.65 mm diameter
EZChange® instrument tips
are excellent for pediatric and
other microsurgical procedures



Horizontal Scissors Tips
delicate 1.6 mm blades

*E25-602R23 straight
E25-603R23 curved

titanium "squeeze handle"
with thread for removable
instrument tips, 10.0 cm
E10-010T



Vertical Scissors Tips
blunt 0.8 mm blades

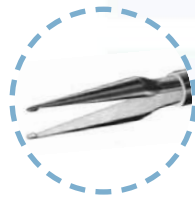
E25-605R23 45°
E25-607R23 70°

for 20GA/0.9 mm Trocar Cannula System



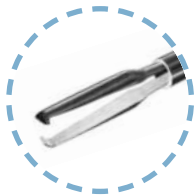
Crocodile Forceps Tip
serrated 1.7 mm jaws
*E30-672R23

excellent for peeling and manipulating membranes



End Gripping Forceps Tip
fine tipped 1.7 mm jaws
*E30-673R23

end gripping tips are ideal for maculorhexis...



End Gripping Forceps Tip
nail-like tipped 1.7 mm jaws
(Eckhardt Style)

*E30-687R23

and to peel ILM

tips and handle sold singly

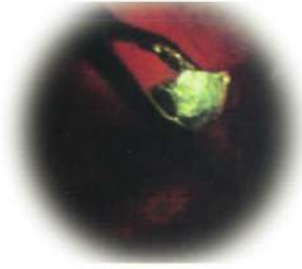
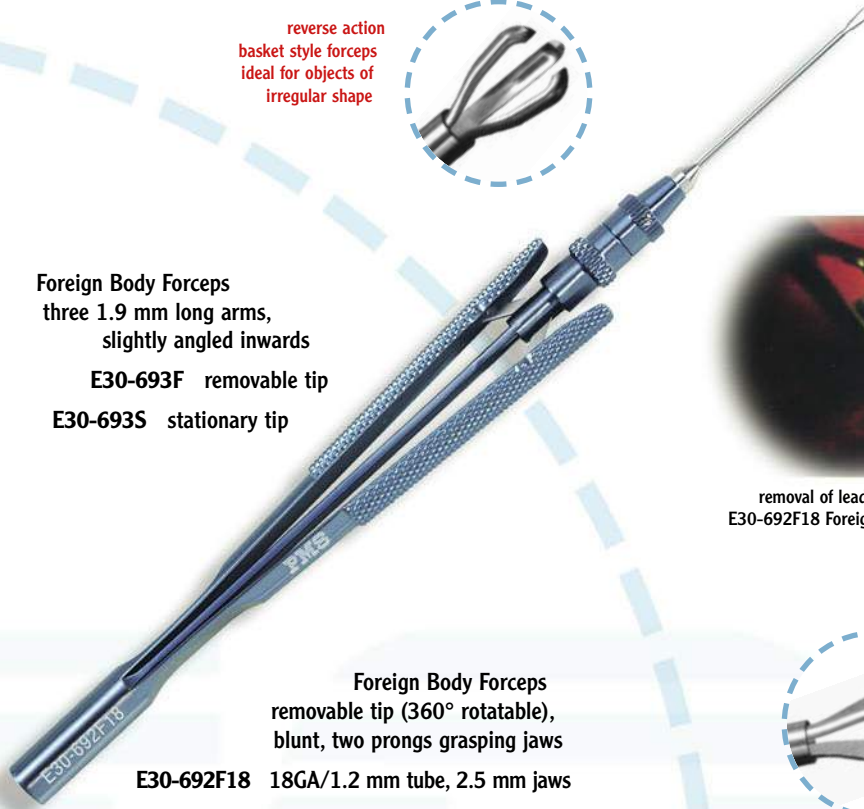
* fits through 23GA/0.65 mm trocar cannula system



reverse action
basket style forceps
ideal for objects of
irregular shape



Foreign Body Forceps
three 1.9 mm long arms,
slightly angled inwards
E30-693F removable tip
E30-693S stationary tip



removal of lead shot using
E30-692F18 Foreign Body Forceps

Foreign Body Forceps
removable tip (360° rotatable),
blunt, two prongs grasping jaws

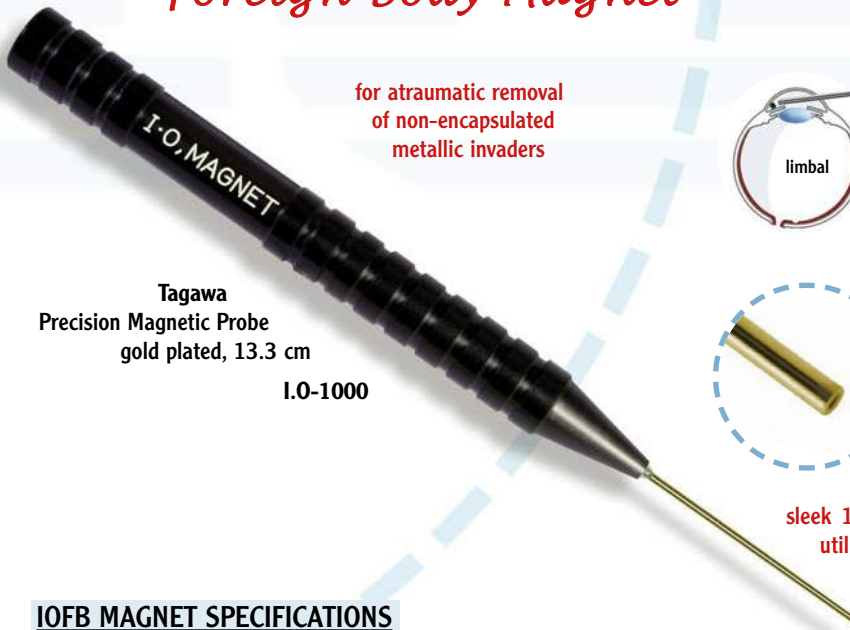
- E30-692F18 18GA/1.2 mm tube, 2.5 mm jaws
- E30-692F20 20GA/0.9 mm tube, 1.9 mm jaws



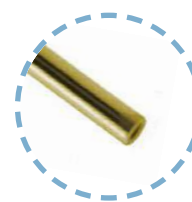
essential instruments for managing IOFB, two sizes 18 & 20GA are
ideal to remove most foreign bodies of any shape, size and material

Intraocular Foreign Body Magnet

for atraumatic removal
of non-encapsulated
metallic invaders



Tagawa
Precision Magnetic Probe
gold plated, 13.3 cm
I.O-1000



sleek 19GA/1.1 mm probe can be
utilized with a limbal, open sky
and/or pars plana approach

IOFB MAGNET SPECIFICATIONS

Probe: 19GA/1.1 mm x 33 mm
Handle: ø 10 mm x 100 mm long
Power: 1.000 gauss (at tip only)
Life expectancy: Indefinite
Sterilisation: Autoclave and ETO



for PMS Vitreoretinal Instruments with EZGrip® stationary tips



All PMS vitreoretinal forceps and scissors have a very thin shaft with a delicate working mechanism. Intraocular fluids may enter this mechanism during surgery. If these fluids are not promptly and properly cleaned out, it will lead to the possibility of instrument malfunction, because salt, cellular debris, protein and viscoelastic can accumulate the inside of the mechanism.

Additionally protein may coagulate inside the instrument if not flushed out before sterilisation and thus can completely stop the mechanism from functioning.

- Clean the instrument immediately after use with distilled/sterile water to remove blood, tissue or other contaminants.

- Remove any debris from the instrument tip very carefully. A fine soft bristled brush may be used for this.

- Clean the exterior of the instrument carefully with a moistened surgical sponge #37-900 (page 70).

- Place syringe with vitreo flushing tube E20-424 (1) over instrument tip and push over front of handle (2).



- Gently press the syringe plunger and flush instrument two or three times with purified distilled water.

- Replace the empty purified water syringe with a syringe filled with Isopropyl Alcohol, and flush the instrument to remove any remnants of water.

- Remove the empty Isopropyl Alcohol syringe then attach an empty syringe to the cleaning flush tube. To remove the alcohol blow through the instrument with one or two syringes with air.

INSPECTION

- Before sterilisation instruments should be inspected for cleanliness and suitability regarding:

- Any physical damage to the device, bent blades, chipped tips, misalignment, scratches.
- Smooth action, blades and arms should move smoothly and not jerk.
- Instrument surface should be clean, without any staining and pitting.
- All blades should be sharp and cut along the full length. Cutting performance can be tested against tissue paper and/or rubber dam.
- Any damaged instruments should be disposed of or repaired following the hospital approved procedures.

- Cover instrument tip with Protective Sheath E15-022 and place separately on a wash/sterilising tray (see section), then clean in a Washer/Disinfector or Ultra Sonic Cleaner.

- The mechanism and the handpiece should be oiled occasionally with a hospital approved medical grade instrument lubricant

- Sterilise the instruments in suitable trays using flash autoclave, (steam) autoclave, high vacuum steriliser. Autoclaving 135°C/276°F is the preferred method of sterilisation.

REPAIR

- PMS can also offer a high quality repair service for all types and makes of vitreoretinal instruments. Estimates are free and prices extremely competitive.



for PMS Vitreoretinal Instruments with EZChange® removable tips

- Unscrew the tip from hand piece and attach cleaning adapter E20-426T.
- Ultrasonically clean both parts, if possible.
- Attach syringe filled with distilled or sterile water to adapter and flush the tip two/three times.
- Flush the tip with alcohol. This will remove any remnants of water and facilitate drying.
- Dry the tip by forcing one or two syringes full of air through tip to remove any remaining alcohol.
- Force special heat-resistant instrument milk through the tip, following instruction in article number three above.
- Dry with air following instruction in article number five above.
- Immerse handle in distilled or sterile water for two minutes, and then clean and dry with surgical sponge.
- Lubricate joints in handpiece with hospital approved and medical grade agent.
- Store and sterilise the instrument in a protective tray #E45-112. Instruments should not touch each other, to avoid contact corrosion.



EZWash®
Sterilising Tray
E45-112
(supplied without instruments)



Vitreous Cleaning Adapter
titanium case with LL cone
E20-426T

for flush-through cleaning of removable
instrument tips immediately after each surgery

RECOMMENDED HANDLING

- The scissors and forceps are microsurgical instruments and must be handled with care at all times.
- NEVER DROP YOUR PMS VITREOUS AND RETINAL INSTRUMENTS.
- When cleaning care should be taken to prevent chemicals or human debris contaminating the user.
- Only handle devices using personal protective equipment, e.g. gloves, etc.
- All cleaning to be carried out in a suitably controlled environment.
- Hospital approved procedure for handling, cleaning and sterilising must be strictly followed.

PMS EZWash® Sterilising Trays are designed to hold micro surgical instruments securely and allow them to be thoroughly cleaned by automated washer disinfector machines which are now popular in many hospitals.



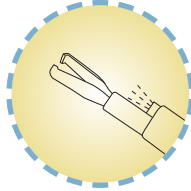
19GA/1.1 MM ILLUMINATED INSTRUMENTS

VITREORETINAL INSTRUMENTS

Crocodile Forceps
fine serrated jaws
*E30-672SI



End Gripping Forceps
nail-like grip tips
*E30-687SI

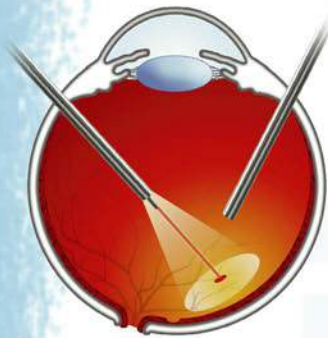


Horizontal Scissors
delicate curved blades
*E25-603SI

* supplied without Monofilament

Monofilament
25GA/0.5 mm "fine" fiber,
disposable, sterile (box of 5)
*PD 100.06

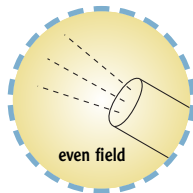
the monofilament is designed for use with
"illuminated" instruments with an inner
diameter of at least 23GA/0.6 mm



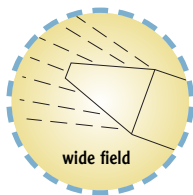
Endo-Illuminators
20GA/0.9 mm Fiber Optic Probe,
disposable, sterile (box of 5)

*PD 100.00 even field illumination

*PD 100.14 wide field illumination



1:2



fits Ocutome, Alcon
and B&L system

* Manufacturer:
Peregrine Surgical Ltd.
Doylestown, PA
USA

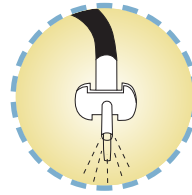


“Chandelier illumination ... gives excellent illumination and visualization, and it allows one to perform a proper bimanual vitrectomy ...”

— Amar Agarwal, MS, FRCS, FRCOphth, and colleagues

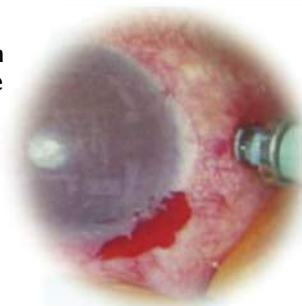
Wide Angle Chandelier Cannula with adaptor for Ocutome system, self-retaining 20GA/0.9 mm cannula, disposable, sterile (box of 5)

*5037



Chandelier illumination is a technique using a 20GA/0.9 mm or smaller illumination fibre that is inserted into the vitreous cavity transconjunctivally through the pars plana. It increases the surgeons visibility making anterior and posterior segment surgery safer and easier to perform.

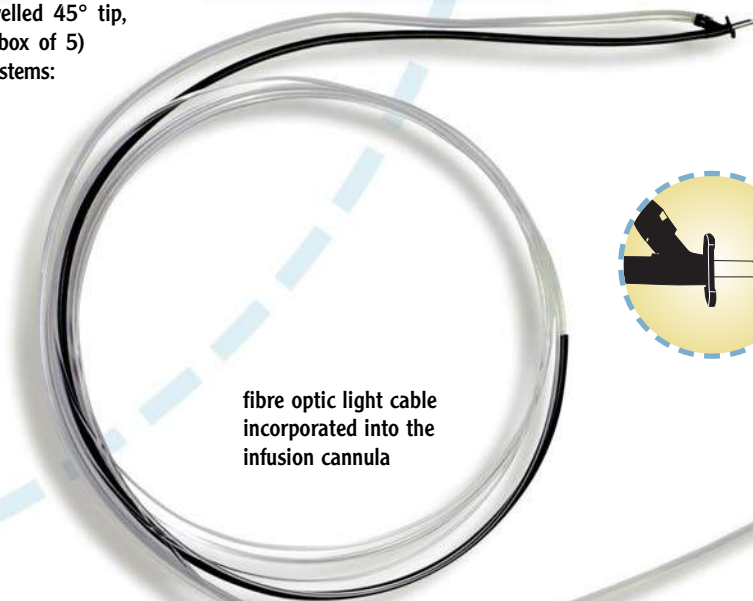
Chandelier Cannula is placed in the pars plana area without the need of sutures for fixation.



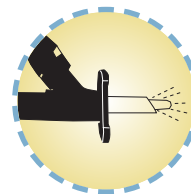
Removal of dislocated IOL with chandelier illumination and vitreoretinal forceps.

Illuminated Infusion Cannulae 18GA/1.2 mm bevelled 45° tip, disposable, sterile (box of 5) fits the following systems:

- *5038 Ocutome
- *5096 Alcon
- *5128 B&L



fibre optic light cable incorporated into the infusion cannula



Ocutome adaptor

* Manufacturer: MicroVision, Inc. Seabrook, NH USA



Removable Instrument Tips

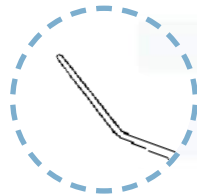
Hold the tip gently but firmly and screw the handle onto the tip!
Make sure that the handle is turned only, NOT THE TIP!

tips and handle sold singly

Aluminium Handle
for removable tips
E15-100AB

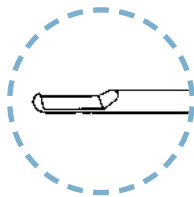


other colours
see pages
94 & 130



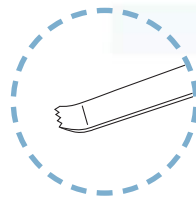
Membrane Spatula/Knife Tip
angled sharp 5 mm blade
E15-347R

for dissection and excision of
membranes from the surface



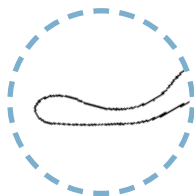
Membrane Peeler Tip
blunt recessed shaft
*E15-350R

for lifting and locating the edge of
epiretinal membranes in PVR cases



Membrane Rake Tip
angled 1 mm blade
E15-355R

to clear fine membranes
from the retinal surface



Membrane Knob Tip
curved round end
E15-365R

for manipulation of
detached retina

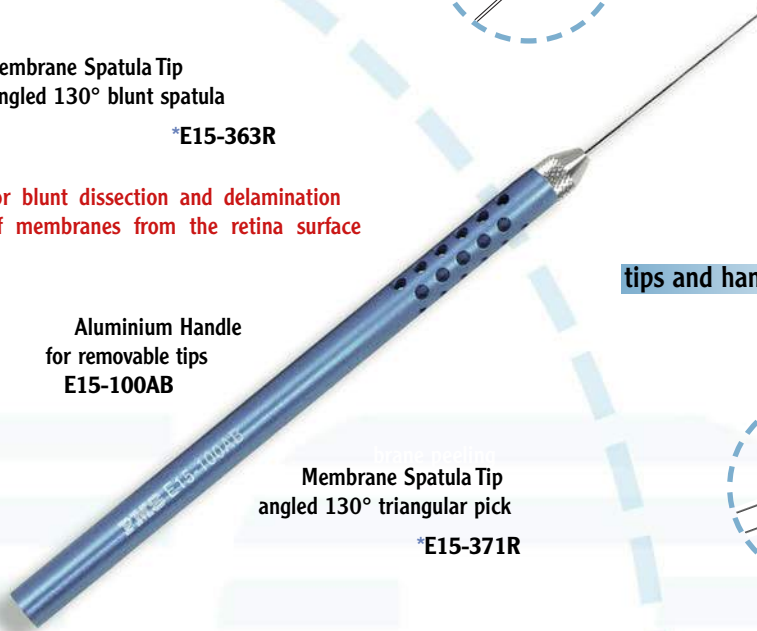
also available with stationary tips in all titanium (*) and/or stainless steel

Membrane Spatula Tip
angled 130° blunt spatula

*E15-363R

for blunt dissection and delamination
of membranes from the retina surface

Aluminium Handle
for removable tips
E15-100AB



tips and handle sold singly

Membrane Spatula Tip
angled 130° triangular pick

*E15-371R

ideal for blunt dissection and
epiretinal membrane peeling

Membrane Pick Tip
angled 130° blunt spatula

*E15-373R



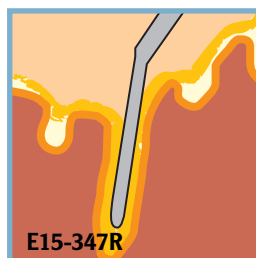
PMS EZChange® picks, rakes, and spatulas
can meet all your needs for easy, controlled
membrane manipulation and peeling
around the retina surface.



E15-350R



E15-363R



E15-347R



E15-355R

...locating, lifting, stripping...

...dissection, delamination...

...dissection and excision...

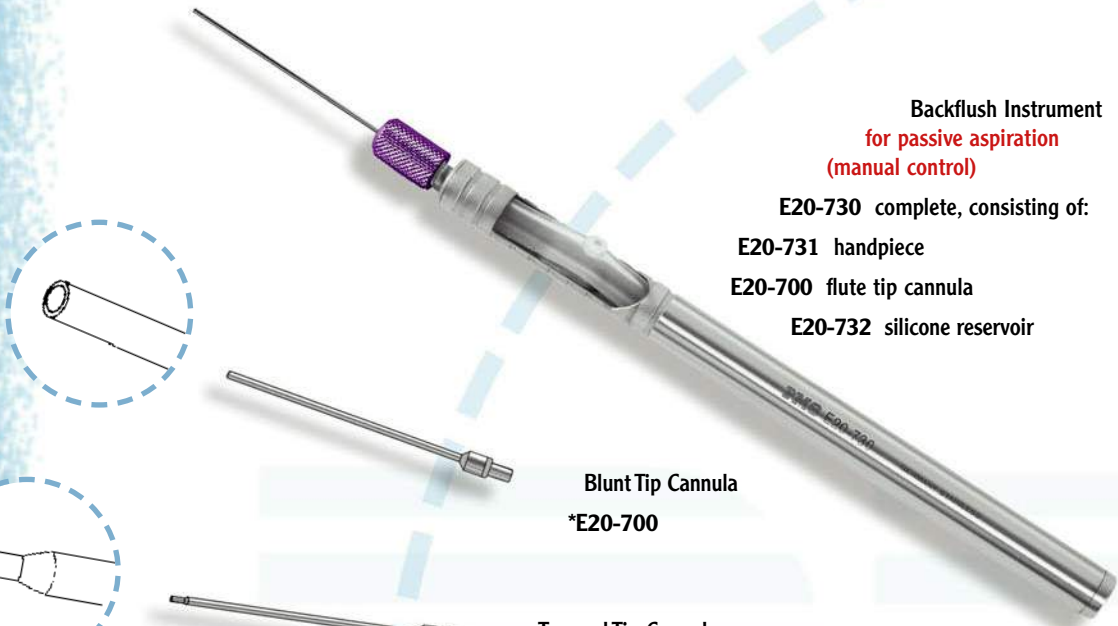
...cleaning and peeling.



20GA/0.9 MM REUSABLE BACKFLUSH INSTRUMENTS

PMS Backflush Instruments are useful for passive or active aspiration of intraocular fluids and reflux of incarcerated tissue, atraumatic “brushing” of the retinal surface and repositioning of retinal folds or breaks.

VITREORETINAL INSTRUMENTS



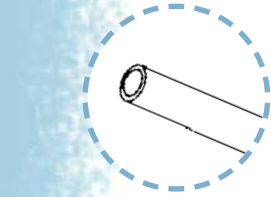
Backflush Instrument
for passive aspiration
(manual control)

E20-730 complete, consisting of:

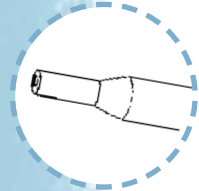
E20-731 handpiece

E20-700 flute tip cannula

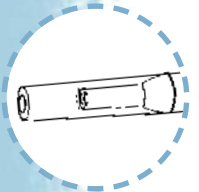
E20-732 silicone reservoir



Blunt Tip Cannula
*E20-700

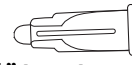


Tapered Tip Cannula
*E20-704

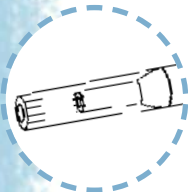


Soft Tip Cannula
*E20-710

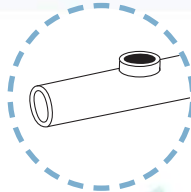
* also available with Luer-Lock cone



add “L” to cat. no., e.g. E20-710L



Brush Tip Cannula
*E20-720



Silicone Backflush Reservoirs
with “cut-off” aspiration control port

**E20-732 for passive aspiration (sealed end)

**E20-742 for active aspiration (open end)

Backflush Instrument
for active aspiration (syringe or machine)

E20-740 complete, consisting of:

E20-741 handpiece

E20-700 flute tip cannula

E20-742 silicone reservoir

E20-743 silicone tubing kit



** also available sterile, 10 per box

BACKFLUSH HANDLES AND 20GA/0.9 MM DISPOSABLE CANNULAE



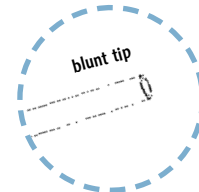
PMS Backflush Handles accept Luer-Lock and Standard Luer Fitting Cannulae. Simple design provides ease of use and setup.

Backflush Handpieces
for passive aspiration
(manual control)

- **E20-731LL Luer-Lock male
- E20-731LM Luer male



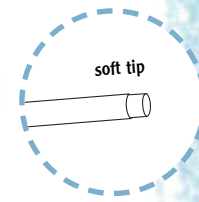
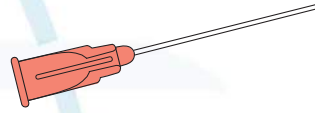
supplied
without cannula



Blunt Tip Cannula
front open port

*A3207

also known as Charles Flute Needle

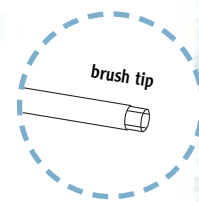


Soft Tip Cannula
2 mm extendible sleeve

*A3198

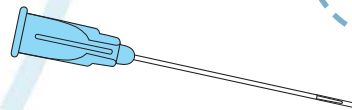


* disposable cannulae, sterile, 10 per box



Brush Tip Cannula
1 mm extendible sleeve

*A3206



Backflush Handpieces
for active aspiration (syringe or machine)
supplied with E20-743 silicone tubing kit

- **E20-741LL male Luer-Lock and hose end
- E20-741LM male/male Luer cone



supplied
without cannula

** also available sterile, 5 per box

VITREORETINAL INSTRUMENTS



The PMS range of backflush instruments are produced of high quality materials including stainless steel, silicone rubber and teflon. These instruments will provide long service if properly cleaned after each surgical procedure.

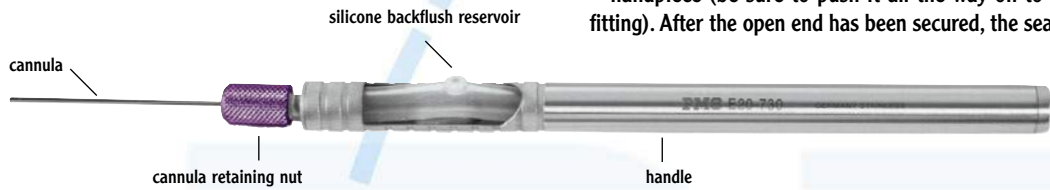
PMS backflush instruments consist of four basic parts:

- stainless steel handle
- stainless steel tip cannula
- stainless steel retaining nut
- silicone rubber backflush reservoir with white teflon aspiration control port

REASSEMBLY

After all of the parts have dried completely the instrument can be reassembled as follows:

- 1) Install the silicone backflush reservoir by inserting the open end of the reservoir into its fitting at the distal end of the opening within the handpiece (be sure to push it all the way on to the fitting). After the open end has been secured, the sealed



DISASSEMBLY

After use the instrument should be disassembled and cleaned before being sterilised. The following is a brief description of the disassembly procedure to be followed prior to cleaning.

- 1) Unscrew and remove the cannula retaining nut and remove the cannula.
- 2) Remove the silicone backflush reservoir from the handpiece by pulling up the center of the tubing.

end of the reservoir is inserted into the proximal end of the opening within the handpiece (it is necessary to “crimp” the tubing while inserting the proximal end). After the backflush reservoir is in its proper position, there should be no crimps in the reservoir tubing.

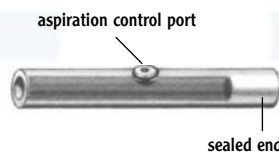
- 2) Insert the cannula in the distal tip of the handpiece and secure with the cannula retaining nut.

BACKFLUSH RESERVOIRS

If the backflush reservoir shows any signs of wear or damage or if it contains tissue remnants, blood, etc., which cannot be removed, it must be replaced.

MANUAL CLEANING

1) Wash the handpiece and backflush reservoir thoroughly, rinse well and allow to dry before re-assembling. The silicone backflush reservoir should be inspected under magnification to be sure that it does not show any signs of wear or damage. Confirm that the teflon “washer” is in the aspiration control port and that the proximal end of the reservoir tubing is sealed.



2) If a silicone “brush” or “soft tip” cannula is used, it should be inspected under magnification for wear or damage and replaced as necessary. If the inspection reveals an intact silicone tip carefully wash the cannula and brush/soft tip. Then reinspect the brush/soft tip to be sure that it has not been damaged while cleaning. The cannula should be thoroughly flushed and rinsed during the cleaning procedure.



SILICONE OIL

is extremely difficult to completely remove from silicone tubing. Therefore if silicone oil is used in a surgical procedure, the silicone parts of the backflush instrument must be replaced after the procedure.

3) After all of the parts have been rinsed thoroughly with distilled water, allow them to dry completely before being reassembled.



Sterilisation Containers

OPTIONAL CARE & CLEANING

Only hospital approved detergents and cleaners are acceptable for use in the cleaning process. If a detergent or cleaner is used, steps 1 through 3 of the Manual Cleaning Procedure should be followed immediately afterwards.

AUTOMATED CLEANING

Automated wash/disinfector machines and ultrasonic cleaner are an acceptable method to use in the instrument cleaning process, but should not be used as the sole cleaning method. However, the instrument should, at the very least, be cleaned with purified water prior to being placed into the mentioned systems. Follow the automated cleaning with steps 1 to 3 for the Manual Cleaning Procedure.

STORAGE

We highly recommend the utilisation of PMS EZWash® sterilisation trays and PMS EZLoad® sterilisation containers to sterilise, store and protect all of your delicate PMS vitreoretinal instruments. For more details refer to relevant section.

STERILISATION

The PMS backflush instruments (stainless steel handles and stainless steel cannulae) can be gas, flash or steam sterilised (in autoclave). The temperature should not exceed 273°F/134°C.

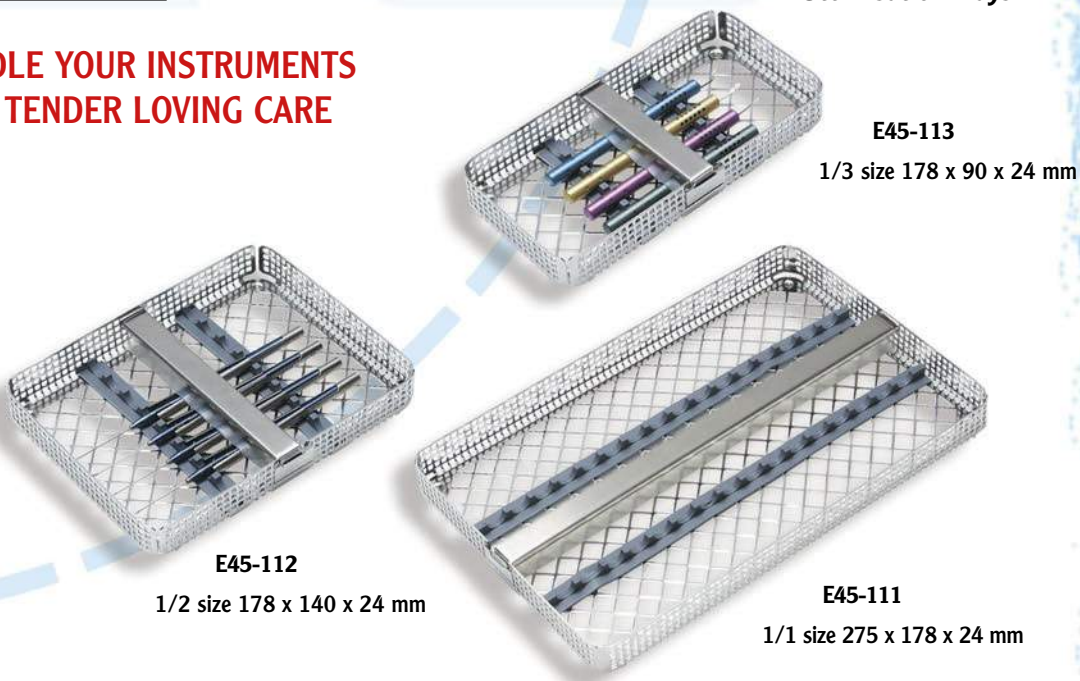
AND ALWAYS REMEMBER:

HANDLE YOUR INSTRUMENTS WITH TENDER LOVING CARE



E45-221B
310 x 190 x 40 mm
for storage of 1 x 1/1, 2 x 1/2
or 3 x 1/3 size Sterilisation Trays

Sterilisation Trays



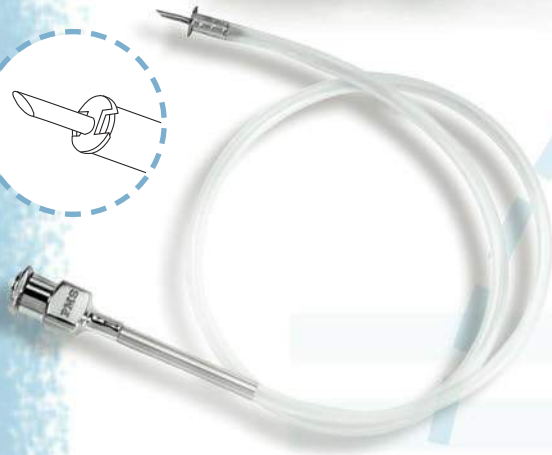
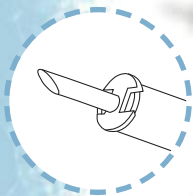
E45-112
1/2 size 178 x 140 x 24 mm

E45-113
1/3 size 178 x 90 x 24 mm

E45-111
1/1 size 275 x 178 x 24 mm



*for Gas, Liquids
and Silicone Oil*



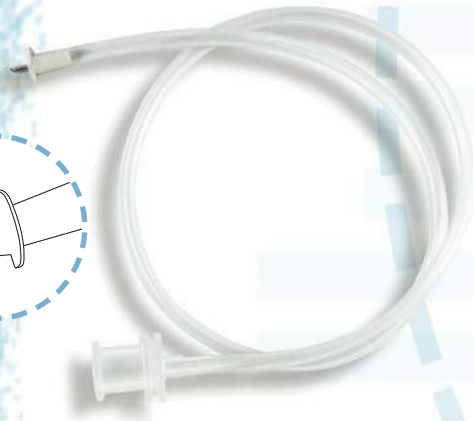
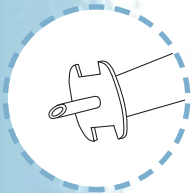
PMS
Standard Infusion Cannulae
attached to silicone tubing with LL cone,
reusable, non-sterile (sold singly)

E20-752 2.5 mm tip
E20-754 4.0 mm tip
E20-756 6.0 mm tip



sterilise before use

Reusable cannulae are constructed of stainless steel material; 380 mm extra long infusion tubing enables individual location of the silicone oil syringe.



Standard Infusion Cannulae
attached to silastic tubing with LL cone,
disposable, sterile (box of 10)

***175-25** 2.5 mm tip
***175-40** 4.0 mm tip
***175-60** 6.0 mm tip

for injection of viscous fluids during posterior segment procedures



High Viscosity Infusion Cannulae
attached to silicone tubing with LL cone,
disposable, sterile (box of 10)

***175-14** 4.0 mm tip
***175-16** 6.0 mm tip

designed for easy injection of high viscosity substance such as silicone oil

further VFI instruments for manual delivery of heavy liquids are shown on pages 212 - 213

* Manufacturer:
EAGLE LABS
Rancho Cucamonga,
California, USA



Directions for use
 Note: This item is sold as **NON-STERILE**

- 1) Sterilize (gas or steam autoclave) scleral plugs.
- 2) Filtration, open pouch onto sterile field.
- 3) With cross action forceps, grasp plug head and lift from retaining block.
- 4) With forceps attached to head, place tip of plug into sclerotomy.
- 5) With scleral plug properly positioned in sclerotomy, remove forceps.

REMOVAL
 1) Grasp scleral plug head with forceps and gently remove from sclerotomy.



Reusable Scleral Plugs
 non-sterile (4 per tablet)

*R19-1000 19GA/1.1 mm, gold

*R20-1000 20GA/0.9 mm, silver



sterilise before use

Disposable Scleral Plugs
 (2 x 20GA/0.9 mm &
 2 x 19GA/1.1 mm)
 sterile (4 per tablet)

*RDP-1000



Scleral Plug Forceps
 angled 9 mm grooved jaws
 with side gripping tips,
 10.5 cm

E30-777T

for standard 20GA/0.9 mm scleral plugs

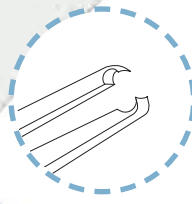
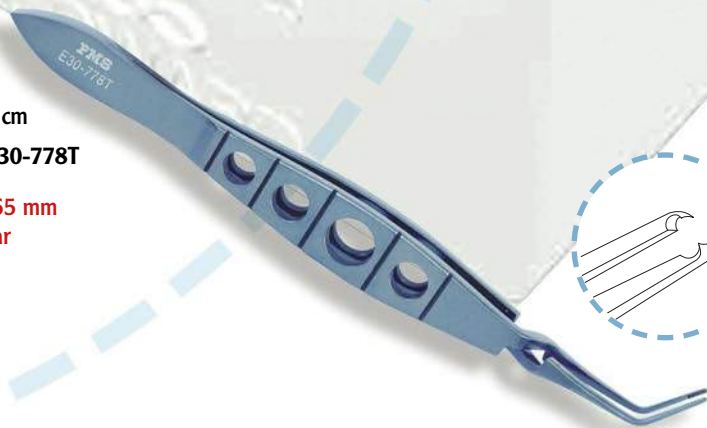
cross-action handle, ideal for picking up the plug
 from the holder and easy insertion and removal



Scleral Plug Forceps
 angled 9 mm notched
 jaws with side and
 end gripping tips,
 10.5 cm

E30-778T

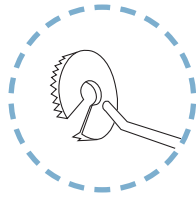
for micro 23GA/0.65 mm
 scleral plugs and trocar
 cannulae



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



*affordable,
economical...*



Trocar Fixation Plate
multiple atraumatic teeth,
central 2.75 mm opening
and side port, 11.0 cm

E15-727 stainless steel

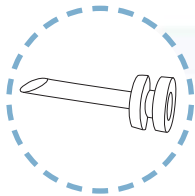
E15-727T titanium

*ideal for conjunctiva fixation
around the general area of
the pars plana incision site*



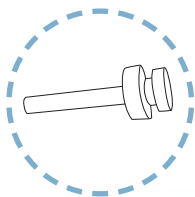
Cannula Inserter
titanium, blunt tip, 10.0 cm

E20-723T



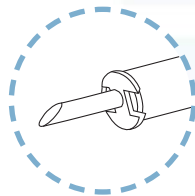
Trocar Cannulae
non-sterile (4 per tablet)

E20-723C



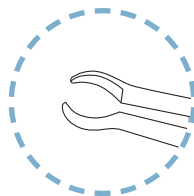
Cannula Plugs
non-sterile (4 per tablet)

E20-723P



Universal Infusion Cannula
4 mm bevelled tube attached to
silicone tubing with LL cone,
non-sterile (sold singly)

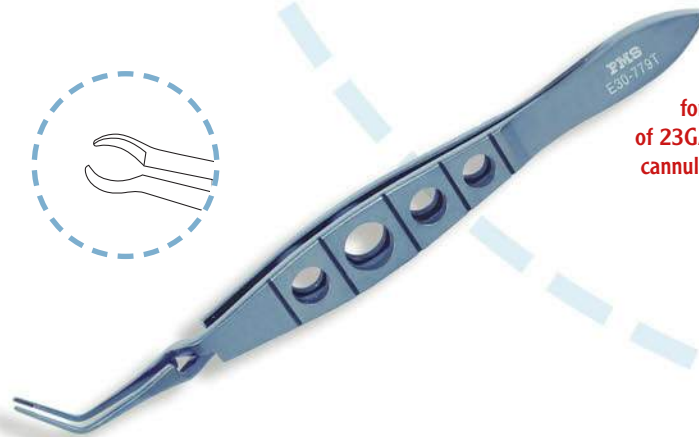
E20-723U



Cannula Loading Forceps
titanium, angled 9 mm shanks
with biconvex curved jaws,
10.5 cm

E30-779T

*cross-action design
for insertion and removal
of 23GA/0.65 mm trocar
cannulae*



sterilise before use



... efficient,
two step technique



**23GA/0.65 mm
Trocar System**

- complete, consisting of:
- 1 x Trocar fixation plate
 - 1 x Cannula inserter
 - 3 x Trocar cannulae
 - 3 x Cannula plugs
 - 1 x Universal infusion cannula
 - 1 x Cannula loading forceps
 - 1 x Sterilising case with ...
- E20-723R** ...removable lid
E20-723S ...sliding lid

**23GA/0.65 mm Disposable
ONE STEP & TWO STEP
Trocar Cannula Systems**
are shown on pages 200-201

PMS
Reusable Trocar Cannula Kit
non-sterile (4 per retaining block)
E20-720K 20GA/0.9 mm
E20-723K 23GA/0.65 mm



Replacement Cannula Kit
23GA/0.6 mm, consisting of 2 each:
instrument cannulae and cannula plugs
***5189** reusable, sterile (1 kit per tray)
***5190** disposable, sterile (5 trays per box)

5189

Disposable Closure Valve Set
for **23GA/0.65 mm** cannulae,
consisting of 4 valves per tray,
sterile (5 sets per box)
***5209**



EAGLE
Stiletto MVR Knives
23GA/0.65 x 30 mm shaft,
0.75 mm wide lancet blade,
disposable, sterile (box of 6)
EG-5563 straight
EG-5663 angled

For sclerotomy incisions with smooth, easy
penetration through the limbus or pars plana.
Tip provides a fluid-tight seal and is tapered for
easy withdrawal.



* Manufacturer:
MicroVision, Inc.
Seabrook, NH
USA



*smaller is better,
less traumatic,
less pain*



Micro Scissors
sharp tipped blades

*E25-602S23 straight

*E25-603S23 curved

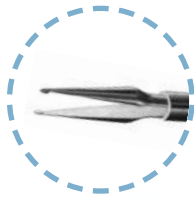
*E25-605S23 vertical 45°



Crocodile Forceps
serrated micro jaws

*E30-672S23

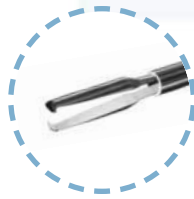
ideal for macular applications...



End Gripping Forceps
micro tips platform

*E30-673S23

fine membrane grasping...



Eckhardt Style Forceps
end gripping nail-like tips

*E30-687S23

and peeling of ILM



Tano Style Forceps
asymmetrical jaws

*E30-689S23

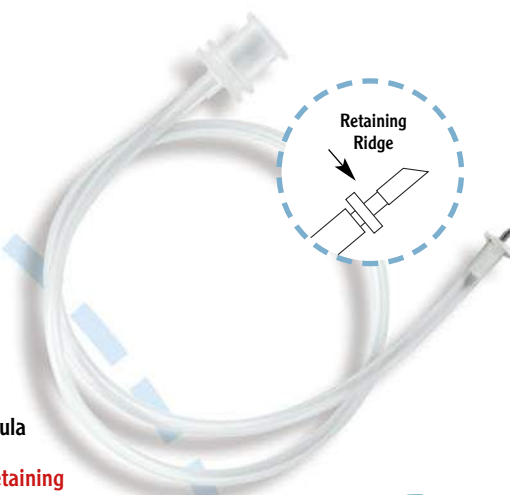
* fits through 23GA/0.65 mm Trocar System



Self-Retaining Infusion Cannulae
23GA/0.65 mm x 4.0 mm tip,
disposable, sterile (box of 5)

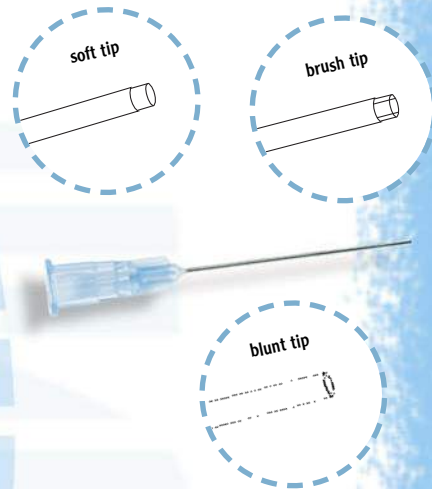
- *5144 infusion cannula
- *5165 silicone oil cannula

designed for sutureless fixation; retaining
ridge holds cannula securely in place



Disposable Backflush Cannulae
23GA/0.65 x 30 mm tube,
sterile (box of 10)

- A3209 blunt tip, Charles Flute Cannula
- A3195 soft tip, 2.0 mm silicone sleeve
- A3208 brush tip, 0.6 mm silicone sleeve

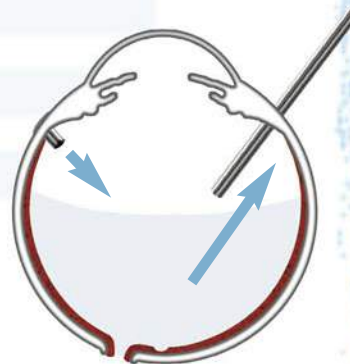


Backflush Handpiece
for passive aspiration (manual control)
with XL silicone reservoir,
male Luer-Lock connector
E20-731XL

extra large reservoir
for increased capacity,
allows reflux of greater
volumes of fluid



Replacement Reservoir
E20-732XL



Fluid-air exchange with simultaneous
aspiration of intravitreal fluid
through blunt tip extrusion cannula.

Charles Flute Cannula

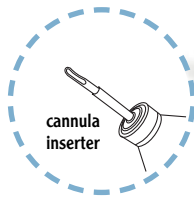
A3209

* Manufacturer:
MicroVision, Inc.
Seabrook, NH
USA



23GA/25GA DISPOSABLE TROCAR CANNULA SYSTEMS

VITREORETINAL INSTRUMENTS



**23GA/0.65 mm
TWO STEP
Cannula System**

complete, each package includes:
3 x cannula inserter with preloaded
cannula with self-sealing valve,
1 x trocar knife and 1 infusion line
disposable (pack of 6)

5700



sterilise before use

The unique cannula inserter works together with an ergonomically designed knife to accomplish oblique cannula insertion directly into the eye via pars plana.



DIRECTION FOR USE

Self-sealing cannulae are pre-mounted on the trocar insertion tools. Slide the trocar needle forward until it locks into the handle. Introduce the cannula with the trocar needle. Forceps may be used to hold the cannula in place while removing the trocar needle. The cannula is self-sealing and will minimise fluid loss when not in use.



Attach the Luer connector of the infusion line to a source of infusion fluid. Prime the infusion line. Insert the metal connector in to the rubber cap on one of the cannulae. Immobilise the infusion line and verify that it is securely attached to the cannula before use.

**25GA/0.5 mm
ONE STEP
Trocar Cannula System**

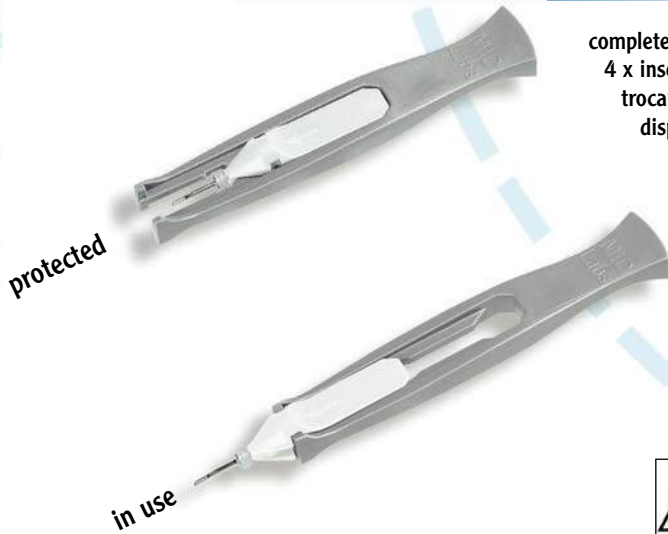
complete, each package includes:
4 x inserter handles with preloaded
trocar cannula and one infusion line
disposable (pack of 6)

5605



sterilise before use

Insert handle consists of sharp wire trocar mounted to plastic handle. The inserter comes with a 25GA/0.5 mm cannula preloaded and is delivered in a safe, retracted position.



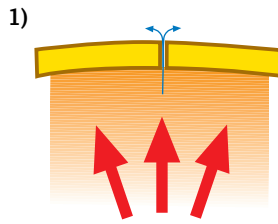
		132°/134° C
		270°/273° F

Not for sale in Europe

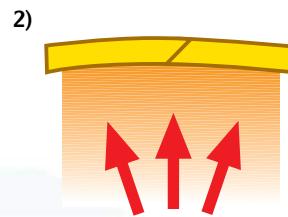


*for better incision closure
and cannulae stability*

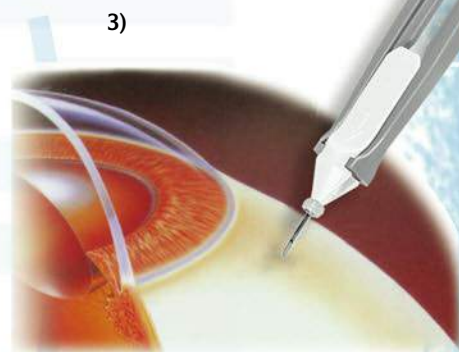
1)
The conventional method of inserting a trocar cannula vertical to the scleral surface promotes incisions that are small (0.5 to 0.6 mm), however with poor sealing ability.



2)
The oblique insertion technique with “valve” effects seals better than the traditional vertical technique. Valve-like incisions are very similar to self-sealing corneoscleral incisions performed in cataract surgery.



3)
Oblique insertion of trocar cannula can be performed with a straight or angled 23GA/25GA trocar inserter. Both types are designed to accomplish oblique cannula insertion directly into the eye. Straight cannula inserters are introduced at an approximate 45° angle to the scleral surface with a movement tangential to the limbus.



**23GA/0.65 mm
ONE STEP (without self-sealing valve)
Trocar Cannula Set**

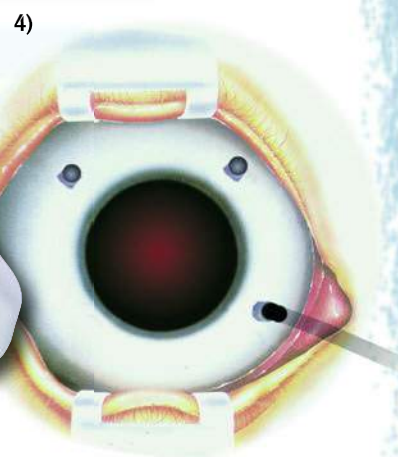
complete, each package includes:
2 x trocars with instrument cannula, 1 x inserter (dark blue) with cannula for fluid/gas, 1 x infusion line, 2 x scleral plugs, 1 x scleral plug forceps, 1 fixation blade, disposable, sterile (box of 20)

03VI11



Simple System available upon request:

23GA ParsMate Trocar Kit
complete, kit includes: 4 x trocars with insert cannula, 1 x infusion cannula, 1 x scleral tablet with 4 plugs
pressure plate may be added upon request



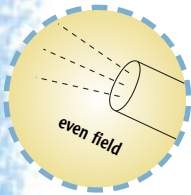
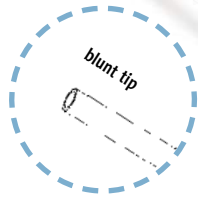
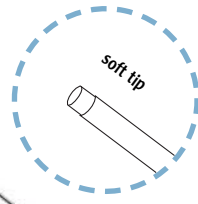
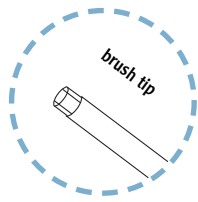
4)
Using an oblique incision instead of a vertical incision helps maintain cannula stability in the eye. Oblique positioning of the trocar cannulae does not affect the maneuverability of the instruments.

VITREORETINAL INSTRUMENTS



VITREORETINAL INSTRUMENTS

it's your choice



Silicone Tip Cannulae
25GA/0.5 x 30 mm tube,
disposable, sterile (box of 10)

A3210 brush tip

A3211 blunt tip

A3196 soft tip

silicone tips ensure safe entry through a macular tear or hole for aspiration of subretinal fluids



Fiber Optic Endo-Illuminators

available in 23GA and 25GA
disposable, sterile (box of 5)

single purpose illuminator providing an even field and/or wide field illumination



Endo Laser Probes

available in 20GA, 23GA and 25GA,
straight and angled tips, sterile (box of 5)

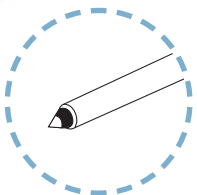
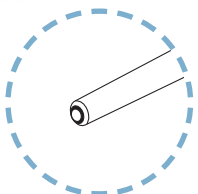
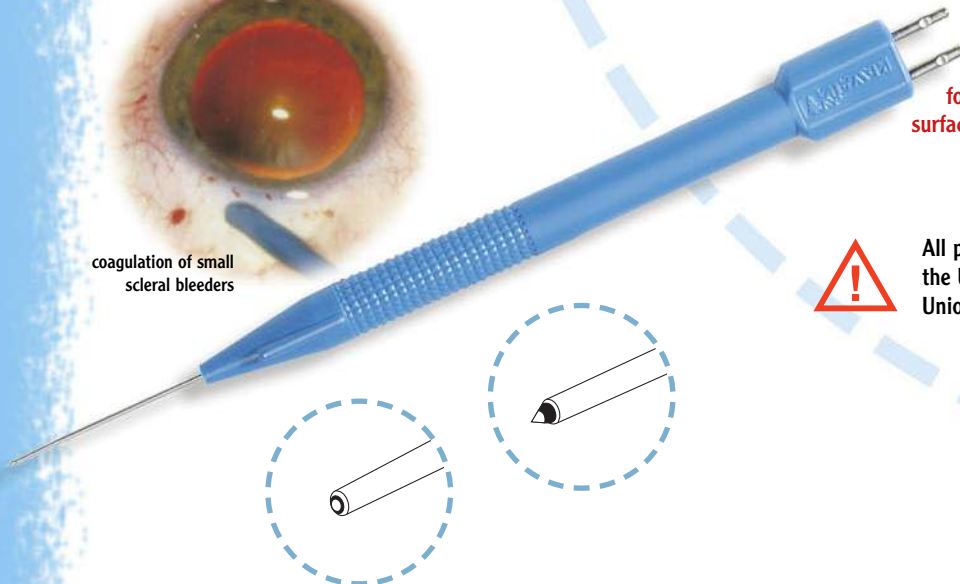
for Alcon, Coherent, Zeiss,
HGM and Nidek systems



coagulation of small scleral bleeders

Bipolar Cautery Pencils
23GA/0.65 mm shaft,
smooth and pointed tips,
reusable and disposable

for gentle coagulation of scleral surface and intraocular hemostasis



All products shown are "Made in the USA" and carry the European Union CE Mark registration.

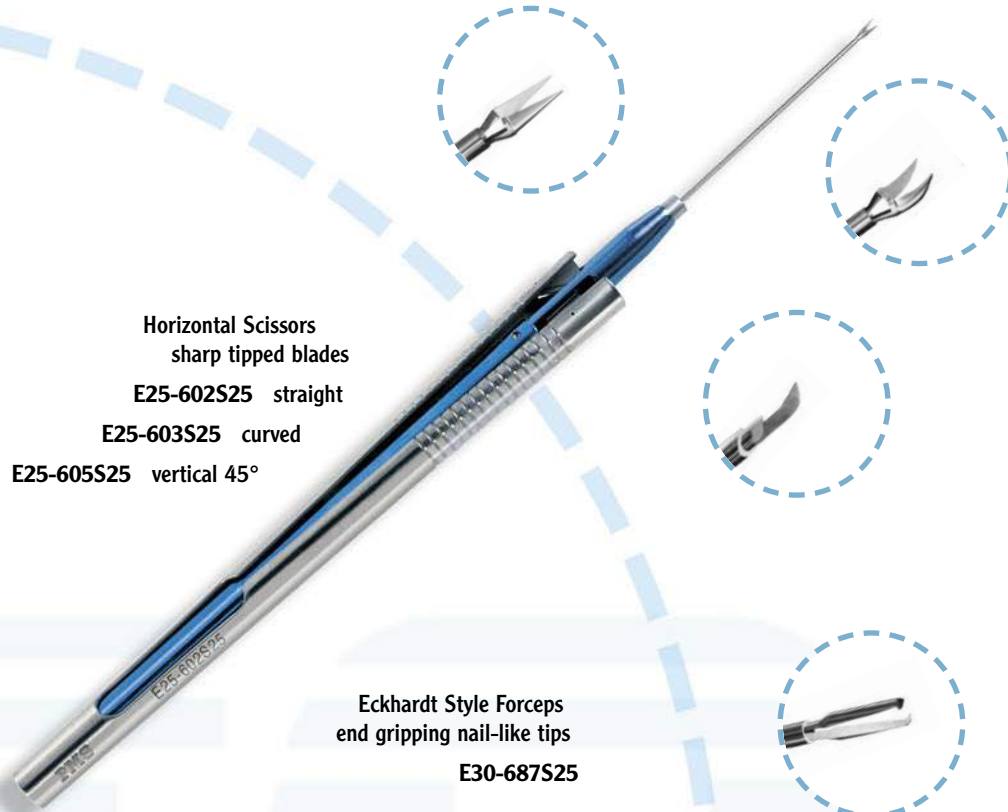
25GA/0.5 MM MINIATURE INSTRUMENTS

PMO



VITREORETINAL INSTRUMENTS

Horizontal Scissors
sharp tipped blades
E25-602S25 straight
E25-603S25 curved
E25-605S25 vertical 45°



Eckhardt Style Forceps
end gripping nail-like tips
E30-687S25

Berrod Style Forceps
end gripping tips platform
E30-673S25

Membrane Spatulae
removable 130° triangular tip
E15-371S23 23GA/0.65 mm
E15-371S25 25GA/0.5 mm

Aluminium Handle
for removable tips
E15-100AB

Membrane Picks
removable 130° spatulated tip
E15-373P23 23GA/0.65 mm
E15-373P25 25GA/0.5 mm



tips and handle also sold singly



Simple to use!



V.I.I.K.
Vitreous Injection Kit
 consisting of the following:
 Barraquer Adult Eye Speculum,
 Scleral Marker (4.0/3.5 mm),
 Hypodermic Needle 32GA/0.2 mm,
 disposable, sterile (box of 10)

***PD900.10**

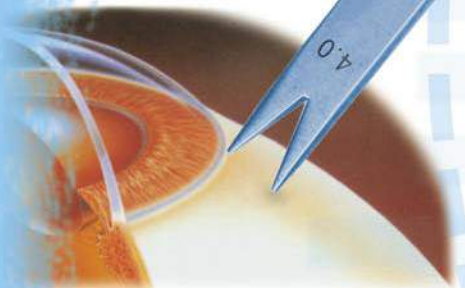
for office based intravitreal injections and examinations.



Universal Sclerotomy Caliper
 titanium, blunt tips, 4.0 cm

E40-571T

for marking 3.0, 3.5 and 4.0 sclerotomy sites



marking sclerotomy site for pars plana vitrectomy

Braunstein
Fixed Sclerotomy Caliper
 titanium, blunt tips, 7.0 cm

E40-573T 3.5-3.0 mm for aphakic eyes

E40-574T 4.0-3.5 mm for phakic eyes

- marks the distance from the limbus to sclera
- marks intravitreal injections entry PPV
- to make the mark for MVR blade incisions



EAGLE
Stiletto MVR Knives
 23GA/0.65 mm shaft,
 0.75 mm wide lancet blade,
 disposable, sterile (box of 6)

EG-5563 straight

EG-5663 angled

For sclerotomy incisions with smooth, easy penetration through the limbus or pars plana. Tip provides a fluid-tight seal and is tapered for easy withdrawal.



* Not for sale in Europe

* Manufacturer:
 Peregrine Surgical Ltd.
 New Britain, PA
 USA



*IrisMate®
Flexible 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

Retinal Nails & Forceps
for temporary fixation of the retina in case of immobile retina

Reusable Retinal Nail
20GA/0.9 mm trocar tip
of 2.85 mm working length,
non-sterile (4 per tablet)
E20-720NS

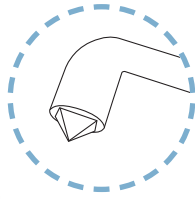


sterilise before use

Retinal Nail Holding Forceps
removable tip (360° rotatable),
20GA/0.9 x 30 mm straight shaft,
cup-shaped 1.0 mm jaws, 15.2 cm
E30-690N complete
E30-690R tip only
E10-010T handle only



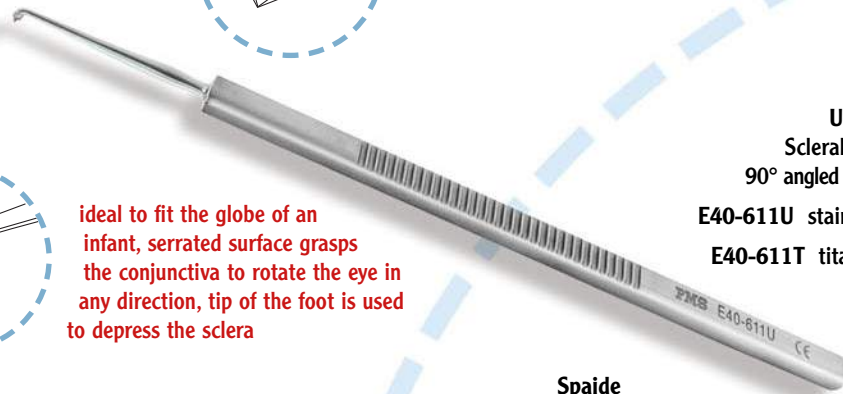
VITREORETINAL INSTRUMENTS



pick has sufficient sharpness to rotate the globe during examination

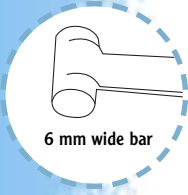


ideal to fit the globe of an infant, serrated surface grasps the conjunctiva to rotate the eye in any direction, tip of the foot is used to depress the sclera



Urrets-Zavalía
Scleral Depressor-Fixation Pick
90° angled tip with pick, 12.0 cm
E40-611U stainless steel
E40-611T titanium, curved shaft

Spaide
Pediatric Scleral Depressor
curved, serrated tip, 12.5 cm
E40-611S



teardrop shaped tip for making a sharp protrusion at the side of mid-peripheral lesion or retinal tear.

6 mm wide bar



Shinja Hara
Scleral Depressor
6 mm wide bar and 7 mm angled hook with 2 mm teardrop shaped tip, 13.5 cm
E40-612S

Video available

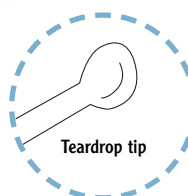


Gass marker

trephine-like 1.5 mm tip produces a ring shaped mark on the sclera when pressure is applied



O'Connor-Schockett
Scleral Depressor-Marker
6 mm wide bar and 1.5 mm Gass Marker, 13.5 cm
E40-612C



Teardrop tip

rounded end designed for depressing sclera and curved marking end for reaching behind the globe



Schockett
Scleral Depressor
6 mm wide bar and 2.5 mm teardrop shaped tip, 13.5 cm
E40-613 stainless steel
E40-613T titanium

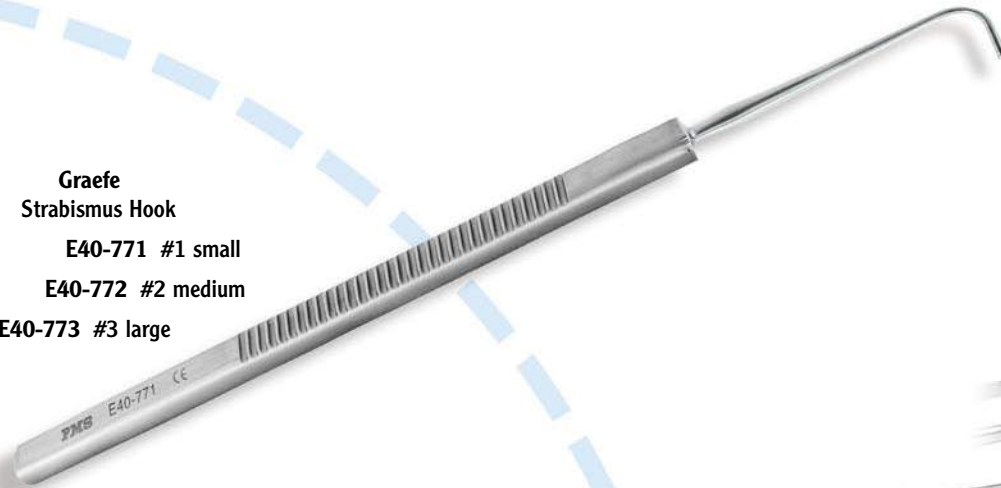


**Graefe
Strabismus Hook**

E40-771 #1 small

E40-772 #2 medium

E40-773 #3 large



Jameson

Muscle Forceps

slide lock, adult size,
6 teeth, 10.0 cm

E30-700 right

E30-701 left



Gass

Retinal Detachment Hook
flat tip with 1.5 mm oval hole, 14.0 cm

E40-777



Schepens

Orbital Retractor

curved smooth blade with
4.0 mm wide notch, 15.0 cm

E40-813



Bonn Model

Orbital Retractor

angled smooth blade with
convex-concave surfaces,
15.0 cm

E40-815





*Instrument sets
are presented as
guidelines only*



E25-333



E35-231



E40-613



E40-779T



E25-581

E42-140 RETINAL DETACHMENT SET
complete, consisting of the following:

E30-902 Mosquito Forceps (2x), page 16

E30-934 Dieffenbach Serrefine (4x), page 16

E40-078 Castroviejo Eye Speculum, page 17

E40-554 Castroviejo Eye Caliper, page 19

E20-001 Bishop-Harmon Irrigator, page 20

E20-031 Rycroft Infusion Cannula, page 20

E25-333 Westcott Tenotomy Scissors, page 59

E25-565 Stevens Tenotomy Scissors, page 59

E30-063 Barraquer Colibri Forceps, page 61

E30-423 Harms Tying Forceps, page 24

E30-430 Bonn Suturing Forceps, page 24

E35-132 Castroviejo Needle Holder, page 25

E35-231 Barraquer Needle Holder, page 25

E40-111 Desmarres Lid Retractor, page 17

E40-771 Graefe Strabismus Hook, page 207

E40-613 Schockett Scleral Depressor, page 206

MISCELLANEOUS TO RETINAL

E40-611U Scleral Marker & Fixation Pick, page 206

E40-777 Gass Retinal Detachment Hook, page 207

E40-779T Eye Thermocauter, titanium, page 208

E40-813 Schepens Orbital Retractor, page 207

E30-835 Sleeve Spreading Forceps, page 219

Nurse Scissors, 13.0 cm
straight 35 mm blades

E25-580 sharp/sharp

E25-582 sharp/blunt

E25-584 blunt/blunt

curved 35 mm blades,

E25-581 sharp/sharp

E25-583 sharp/blunt

E25-585 blunt/blunt



Directions for use

Note: This item is sold as *NON-STERILE*

PLACEMENT:

- 1) Clean and Sterilize (gas or steam autoclave) scleral plugs.
- 2) After sterilization, open pouch onto sterile field.
- 3) With cross action forceps, grasp plug head and lift from retaining block.
- 4) With forceps attached to head, place tip of plug into sclerotomy.
- 5.) With scleral plug properly positioned in sclerotomy, remove forceps.

REMOVAL

- 1) Grasp scleral plug head with forceps and gently remove from sclerotomy.



R19-1000

E42-141 VITRECTOMY SURGICAL SET
complete, consisting of the following:

EG-5560 Stiletto MVR Knife 20GA, page 58

R19-1000 Scleral Plug Set 19GA, page 195

E30-777T Scleral Plug Forceps, page 195

175-40 Infusion Cannula 4 mm, page 194

E20-730 Backflush Instrument, page 190

E20-741LL Backflush Handpiece, page 191

E20-704 Tapered Tip Cannula, page 190

E25-602S Vitrectomy Scissors, page 175

E30-672S Vitrectomy Forceps, page 176



E25-602S

FOR MEMBRANE MANIPULATION ADD

E15-350R Membrane Peeler, page 188

E15-355R Membrane Rake, page 188

E15-371R Membrane Pick, page 189

E30-679S Vitreous Forceps, page 176



E15-355R

FOR 23GA/0.65 MM OBLIQUE INSERTION

E20-723R Reusable Trocar System, page 197

5700 Disposable Cannula System, page 200



5700

MISCELLANEOUS TO VITRECTOMY

Fiber Optic Light Probes, page 186

Bipolar Cautery Pencils, page 202



Fiber Optic Endo-Illuminator



*naturally pure,
highly purified*



AlfaSIL TRS
Purified Silicone Oil
preloaded 15 ml syringe,
sterile (box of 5)

REF 24-TRS standard connector

REF 24TRSA for Alcon + Dorc

REF 24TRSB for Bausch & Lomb

REF 20L32 for Fritz Ruck

for automatic pressure injection



tubing with VFI standard connector
REF 24-TRS

GENERAL DESCRIPTION

AlfaSIL Silicone Oil is an oil liquid, of high viscosity, used to replace the vitreous humour during vitrectomy surgeries with long time of permanence in the eye, usually more than 30 days.

CHEMICAL COMPOSITION

Formula: $[-Si(CH_3)_2O-]_n$
Viscosity: 1000 cSt at 25°C
Refractive index 1.405 at 24°C
Density: 0.965 g/cm³ at 24°C

INDICATIONS FOR USE refer to page 207

PACKAGING AND STERILISATION

AlfaSIL Silicone Oil is available in preloaded 15 ml syringe or in 10 ml vial. AlfaSIL is dry heat sterilised and filled in its sterile container. The final container (syringe or vial) is sterilised by radiation.



The use of purified silicone oil as an internal tamponade is not recommended for patients with intraocular silicone lenses.

AlfaSIL
Purified Silicone Oil
sterile (vial of 10 ml)
REF 24



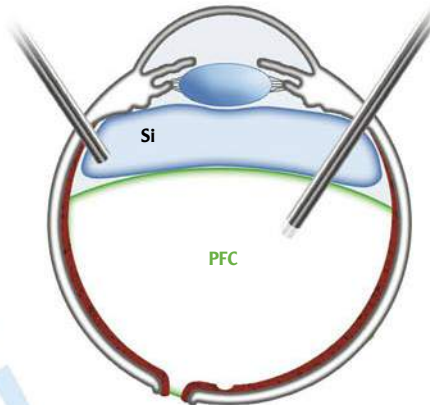


*exceptional stable,
and transparent*

INDICATIONS FOR USE

Silicone Oil SO-1000/SO-5000 is used for intraocular tamponade in severe cases of retinal detachment, e.g.

- proliferative vitreo-retinopathy (PVR)
- giant tears
- ocular trauma
- secondary RD with viral retinitis
- as well as other retinal detachment, which can not be treated with other forms of therapy.



SO-1000 exchange procedure with passive aspiration through Brush Tip Cannula

Purified Silicone Oil is available in the following:			
in 10 ml sterile vial		in 10 ml sterile syringe	
SO-1000	1000 cSt	SO-1000-S	1000 cSt
SO-1300	1300 cSt	SO-1300-S	1300 cSt
SO-2000	2000 cSt	SO-2000-S	2000 cSt
SO-5000	5000 cSt	SO-5000-S	5000 cSt



CHEMICAL COMPOSITION
see AlfaSIL REF 24

The choice of viscosity offers an optimum balance between easy injection and a stable temporary tamponade.

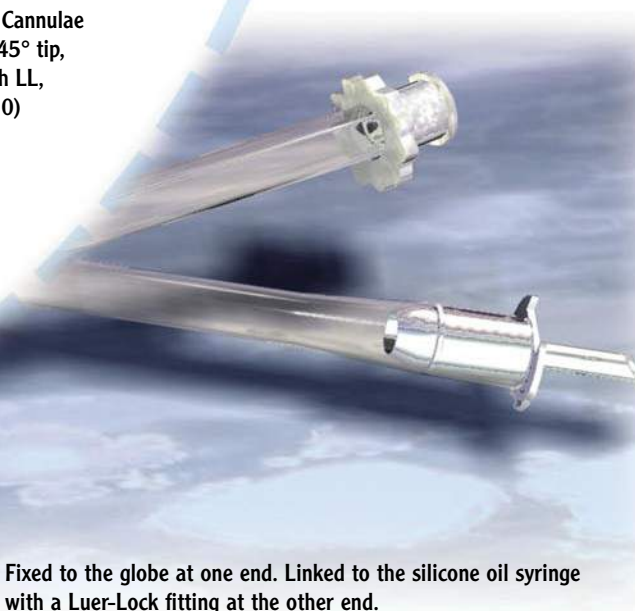
CE 0120 APPROVED FOR SALE IN ALL EUROPEAN UNION COUNTRIES

High Viscosity Infusion Cannulae
20GA/0.9 mm bevelled 45° tip,
attached to silicone tubing with LL,
disposable, sterile (box of 10)

MIS-1040 4.0 mm tip

MIS-1060 6.0 mm tip

*designed for easy injection of
high viscosity substance
such as silicone oil*



Fixed to the globe at one end. Linked to the silicone oil syringe with a Luer-Lock fitting at the other end.



STERILE EO
STERILISED BY ETO



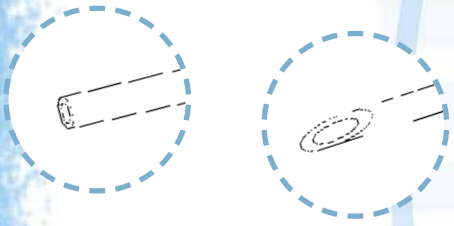
Peyman
Silicone Oil Cannulae
8 mm tube, bevelled tip
disposable, sterile (box of 10)

167-16 16GA/1.6 mm
167-19 19GA/1.1 mm

Wagner
Silicone Oil Cannulae
16GA/1.6 x 8 mm tube, bevelled tip,
attached to 6" (15.0 cm) high pressure extension tube,
disposable, sterile (box of 3)

167-16T

for injection or aspiration of high viscosity fluids in the repair of retinal detachments



Silicone Oil Cannula (Manual Delivery System)
8 mm cannula with 6" (15.0 cm) high pressure extension tube
preattached to a 10 ml ring control syringe, sterile (box of 3)

167-20TS 20GA/0.9 mm
167-19TS 19GA/1.1 mm
167-16TS 16GA/1.6 blunt tip

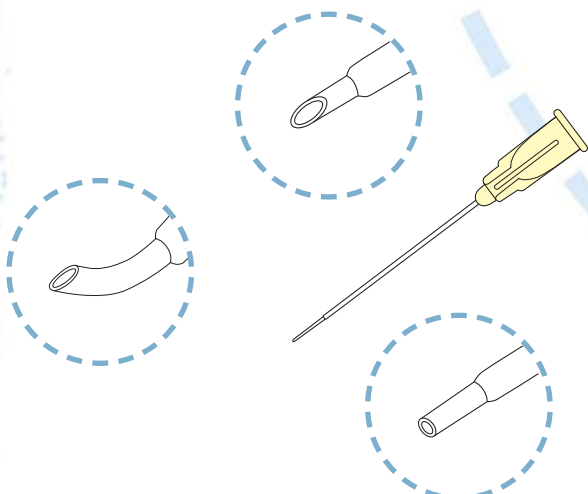


Subretinal/Vitreoretinal Injection Cannulae
20GA/0.9x25 mm tube, 32GA/0.25mm tip

173-32 straight 3 mm bevelled tip
175-32 curved 8 mm rounded tip

Subretinal/Vitreoretinal Aspiration Cannulae
20GA/0.9x25 mm tube, 32GA/0.25mm tip

173-34 curved 8 mm bevelled tip
175-28 straight 4 mm rounded tip



pictures shown are smaller/larger than actual sizes indicated



sterilise before use

Silicone Oil Cannulae
 8 mm tube, bevelled tip
E20-716 16GA/1.6 mm
E20-719 19GA/1.1 mm

for injection or aspiration of high viscosity fluids in the repair of retinal detachments

Standard Infusion Cannulae
 non-sterile (sold singly)
E20-752 2.5 mm tip
E20-754 4.0 mm tip
E20-756 6.0 mm tip

Silicone Oil Syringe
 10 ml glass syringe with
 screw activated plunger,
 12.0 cm
E20-820

Viscous Fluid Pressure Injector
 10 ml glass syringe with finger support
 and pressure activated plunger,
 12.5 cm
E20-821

High-Flow Fluid Filter .20 Micron
 male/female Luer-Lock fittings,
 disposable sterile
 (50 per box)

201-20

used between syringe and cannula to filter out particulates and contaminants

pictures shown are smaller/larger than actual sizes indicated

VITREORETINAL INSTRUMENTS



*colourless,
optical clear,*



VITRION
Perfluorocarbon Liquid
sterile (vial of 5 ml)
***REF 100VTO**

GENERAL DESCRIPTION

Vitron is made by 98% of Octadecafluoro-decanydnaphthalene. It is treated to reduce as far as possible its residual toxicity. Existing impurities are 100% fluorinated and are fluorinated open chains of the same kind.

CHEMICAL COMPOSITION

Formula: $C_{10}F_{18}$
Molecular weight: 462.08
Refractive index: 1.314 at 24°C
Density: 1.941 g/cm³ at 25°C
Boiling point: 141°-143°C

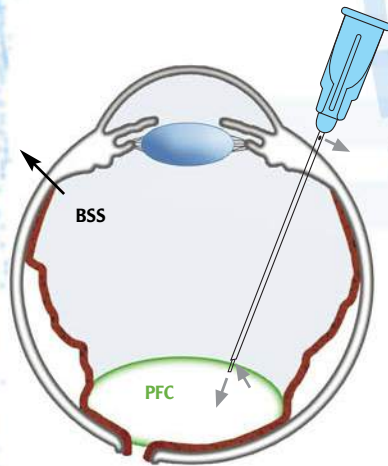
DESTINATION OF USE

Perfluorocarbon liquid is a high tensy liquid for vitreous chamber washing during ocular surgery with a maximum time of permanence in the eye of one hour.

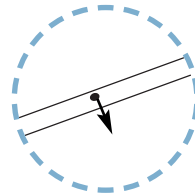
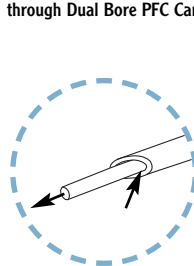
INDICATIONS FOR USE refer to page 209

PACKAGING AND STERILISATION

Vitron is packaged in 5 ml bottle of pharmaceutical glass with cap and seal. The bottle is outside and inside sterile, packaged in a sealed sterile bag.



retinal attachment with Perfluorocarbon through Dual Bore PFC Cannula



cut-off aspirating port allows to control constant intraocular pressure during injection

Dual Bore PFC Coaxial I/A Cannula

19GA outer tube with 0.4 mm aspiration port,
25GA inner tube with open end irrigating port,

E20-325 reusable (sold singly)

149-19 disposable (box of 10)

with aspiration channel for passive aspiration of intraocular fluid during injection of PFC

*  **Manufacturer:**
Alfa Instruments,
Casoria (NA),
Italy



*100% fluorinated
and purified*

INDICATIONS FOR USE

DecalineMate® Perfluorocarbon serves perfectly as an aid in temporary flattening of the retina and in the surgical treatment of:

- retinal detachment
- giant tears
- ocular trauma
- laser coagulation and cryotherapy
- lifting of subluxated lenses
- retinal bleeding
- short term tamponade

CHEMICAL COMPOSITION

Formula: C₁₀F₁₈
 Molecular weight: 462
 Refractive index: 1.310 at 20°C
 Density: 1.93 g/cm³
 Boiling point: 142°C
 Surface tension: 19.0 at 25°C
 Interface tension: 57.8 at 20°C

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



PFC-air exchange using blunt tip extrusion cannula



DecalineMate®
 Perfluorocarbon
 100% fluorinated,
 sterile (vial of 7 ml)
 *PFD-2000

CE 0120 APPROVED FOR SALE IN ALL EUROPEAN UNION COUNTRIES

Dual Bore PFC I/A Cannulae
 disposable, sterile (box of 5)

**5191 20GA/0.9 mm

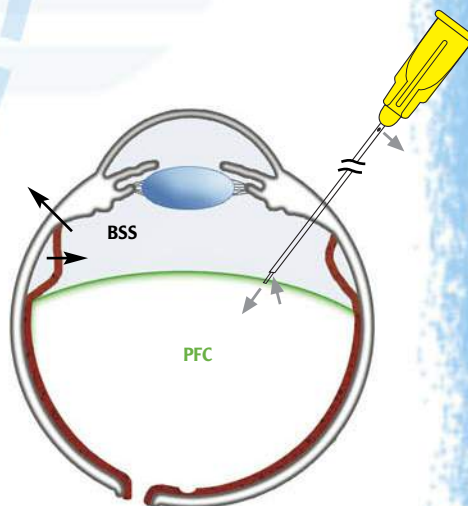
**5203 23GA/0.65 mm

*for simultaneous infusion of heavy liquids
and aspiration of intraocular fluids*

Dual Bore Subretinal BSS Injection Needle
 20GA/0.9 tube with 41GA/0.1 mm tip
 disposable, sterile (box of 1)

**5194

*to control subretinal
injection of BSS*



retinal attachment with Perfluorocarbon through Dual Bore PFC Cannula

VITREORETINAL INSTRUMENTS

** **Manufacturer:**
 MicroVision, Inc.
 Seabrook, NH
 USA



Howard GasMate® Tamponades come in a kit as described below, containing a sterile 50 ml bottle gas, (your choice) and may be purchased in the following:

- 99.9% PURE
- GMC3F8-PURE C3F8 Perfluoropropane
- GMC2F6-PURE C2F6 Hexafluoroethane
- GMSF6-PURE SF6 Sulfur Hexafluoride

PRE-MIXED WITH DRY NITROGEN

- GMC3F8-MIXED C3F8 Perfluoropropane
- GMC2F6-MIXED C2F6 Hexafluoroethane
- GMSF6-MIXED SF6 Sulfur Hexafluoride

[contact us for specific mixtures](#)



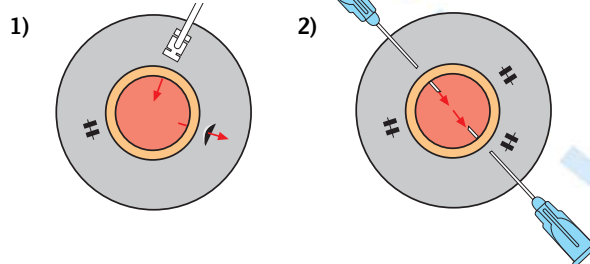
GasMate® Kit

- complete, each kit includes:
- 1 x sterile bottle of C₃F₈, C₂F₆ or SF₆ (your choice)
 - 1 x sterile disposable syringe (60 ml),
 - 1 x sterile high quality filter,
 - 1 x sterile valve

CE 0120 APPROVED FOR SALE IN ALL EUROPEAN UNION COUNTRIES

INJECTION OF GAS MIXTURE

There are two possible techniques for replacing intraocular air by the gas mixture. Following fluid-air exchange, the gas mixture can be injected via the infusion line before the final closure of sclerotomies 1) or with the globe closed, using a 30GA/0.3mm needle cannula.





*optimal for routine
vitrectomy procedures*

Biconcave Lens

***RSL-1000**

clear view of the fundus in an airfilled vitreous



Flat Lens

***RSL-2000**

for 36° field of view of the central posterior pole and vitreous



Magnifying Lens

***RSL-3000**

for thorough viewing central posterior fundus and structures deep in the vitreous cavity, on the vitreous cavity and on the retinal surface



Wide Field Lens

***RSL-4000**

48° field of view when observing central posterior pole and vitreous



30° Prism Lens

***RSL-5000**

viewing of the periphery and vitreous beyond the equator

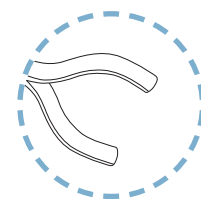


Landers

Vitrectomy Lens Forceps
angled 45° shaft, curved
grooved blades, 11.5 cm

E30-837T

for holding the Landers
Vitrectomy Lenses



*** HOWARD RSL-LENSES**

- Manufactured of optically clear silicone
- High resolution PMMA optics
- Self-retaining silicone flange in place of sew-on ring
- Economical back up for reusable lenses
- Single use, eliminates risk of contamination
- Individually sterile packaged (box of 10)



*Bands
Strips
Tires
Sleeves
Sponges*



FOR DECADES
medical grade silicone materials for
scleral buckling surgery have been the gold
standard in the treatment of retinal detach-
ment throughout the world with great success.

MATERIAL FEATURES:

- Soft and elastic
- Biocompatible and non-toxic
- Non-antigenic
- Tailored to size

INDICATIONS FOR USE

Silicone retinal implants are used for intrascleral and
episcleral buckling in retinal reattachment surgery.



STERILISATION AND PACKAGING

Solid Silicone Implants and Silicone Sponges are gas sterilised with
100% ethylene oxide (ETO) and are guaranteed to be sterile unless
the package has been damaged or opened. Individually sterile packaged
(box of 5).

SCLERAL BUCKLING

Circular Scleral Buckling is useful when the vitreous is hemorrhagic,
in order to prevent late retraction of the base of the vitreous and
secondary retinal detachment. This can be performed at the
beginning of the procedure or after vitrectomy.



Circular scleral buckling.

Sapphire Crescent Knives

angled, facet-free blade (bevel up)

E10-191 1.5 mm

E10-192 2.0 mm

E10-193 2.8 mm

*ideal for scleral dissection in
scleral buckling procedure*

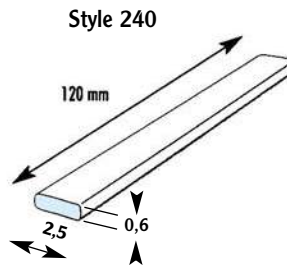




*Solid Silicone
Implants*

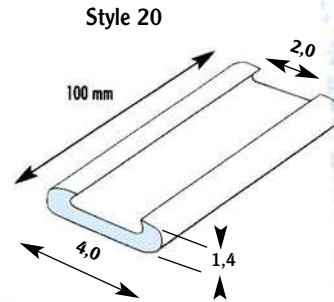
Bands

Circling styles:
40, 41, 42, 240



Strips

Grooved styles:
20, 31, 32, 219, 220, 225



Tires

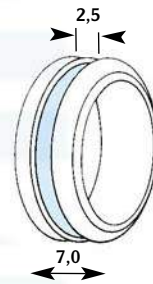
Asymmetrical styles:
275, 276, 278, 280



Concave styles:
277, 279



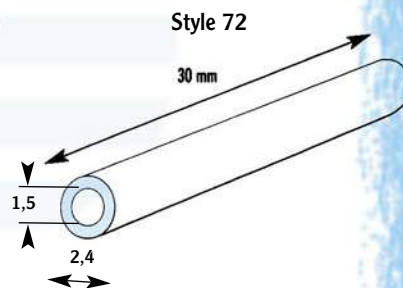
Convex styles:
286, 287, 287WG, 289



Style 277

Sleeves

Round styles:
70, 71, 72, 270



Style 72

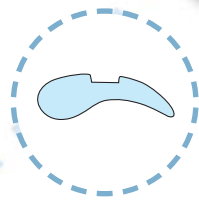
Watzke
Sleeve Spreading Forceps
angled, finely serrated jaws,
11.5 cm

E30-835

ideal to fix sleeve onto circling bands

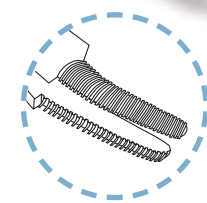
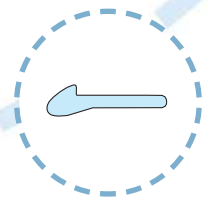
Radial Wedges

styles: 135,137



Meridionales

styles: 103,106,112

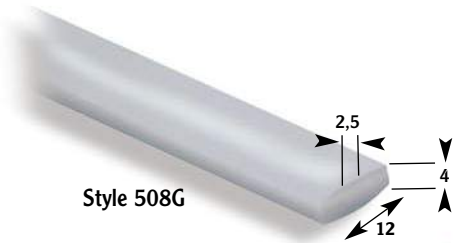


all dimensions are in millimeters, drawings shown are larger than actual sizes indicated

VITREORETINAL INSTRUMENTS



SCLERAL SPONGE IMPLANTS ON REQUEST



Style 508G

Gooved

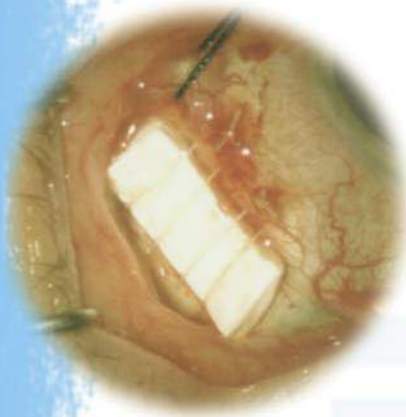
Styles: 506G, 507G, 508G, 509G, 516G, 519G



Style 510

Part-Thickness

Styles: 510, 511, 515, 517



MATERIAL

Scleral Sponges are made of soft silicone elastomer composed of closed micro cells.

LENGTH

Silicone sponge implants are pre-cut to a length of 80 mm unless otherwise specified.

PACKAGING

Individually sterile packaged (box of 5).



Style 505

Round

Styles: 503, 504, 505



Style 501

Oval/Oblong

Styles: 501, 506, 507, 509

all dimensions are in millimeters, pictures shown are larger than actual sizes indicated

PMS



SPECIALTIES





INNOVATIVE EYE SPECULAE . . 226-229

SOLUTIONS FOR GLAUCOMA 230-231

KLASSIK EYE FORCEPS 232

PERFECT CAPSULORHEXIS FORCEPS . 233

COLOR UP YOUR SURGERY – THINK PINK! 234-235

FRENCH STYLE EYE INSTRUMENTS . . 236-239

ITALIAN DESIGN EYE INSTRUMENTS . . . 240-243

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DELICATE STRABISMUS INSTRUMENTS 252-253

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MEIBOMIAN GLAND COMPRESSOR (MGC) 255

LID-CONJUNCTIVA/CHALAZION INSTRUMENTS 256-257

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BATTERY CAUTERIES
BIPOLAR FORCEPS 269

PMS OPHTHALMIC CATALOGUES 270

SPECIALTIES





for
"Little People"

extra small version of popular eye speculae
for routine premature infant lid retraction



Barraquer, wire

E40-003 premature, 3 mm

E40-005 newborn, 5 mm

E40-007 infant, 7 mm

E40-009 child, 9 mm

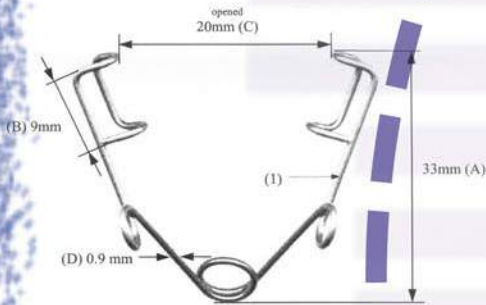
Vinzenz, wire

Infant Speculum

fenestrated 4 mm blades

E40-004

interlacing blades for easier insertion and removal



Takeda, wire

Infant Child Speculum

fenestrated 9 mm blades

E40-010

gentle spring tension of wire allows
routine infant child lid retraction

Alfonso, wire

Infant Child Speculum

fenestrated interlacing 5 and 8 mm blades

E40-008

fingergrips allow easy lifting of the speculum



Cook

Infant Eye Speculum

with set screw, 4 mm wide

E40-064 fenestrated

E40-074 solid blades

ideal for routine infant lid retraction





for "Oriental Eyes"

modified version of popular eye speculae especially designed for oriental eyes

Barraquer, wire
fenestrated **13 mm** blades
E40-013B

Oriental eyes are not only somewhat smaller than western eyes, they also have stronger lid muscles.

Kratz-Barraquer, wire
open **13 mm** wings
E40-013K

Therefore PMS offers smaller (13 mm wide), but stronger versions of the Barraquer, Kratz- eye speculae and Jaffe eyelid retractor.

Jaffe, wire
Eyelid Retractor Set
closed **13 mm** blades
E40-013J

simple, effective, economical

LASIK Wire Speculum
ideal for **Cataract/Refractive surgery**

E40-030A
Alió, fenestrated 15 mm blades

E40-030D
Durrie, 15 mm wings with olive tips

E40-030G
Greene, 15 mm wings with spring

E40-030S
Slade, large 20 mm wings
for either eye

New



pictures are not actual size

SPECIALITIES



designed for continuous aspiration



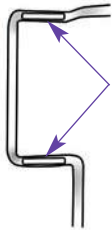
Jaffe, wire
Aspirating Lid Retractor Set
7 ports closed 17 mm blade
E40-041A

Pannu-Kratz, wire
Aspirating Speculum
6 ports open 15 mm blades
E40-033A

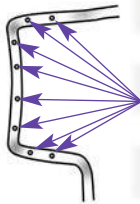
can be used with operating room suction or a 50 cc syringe

New

for improved fluid control



E40-100AL
Lieberman K-Wire, 4.5 mm long slit ports, open 15 mm blade

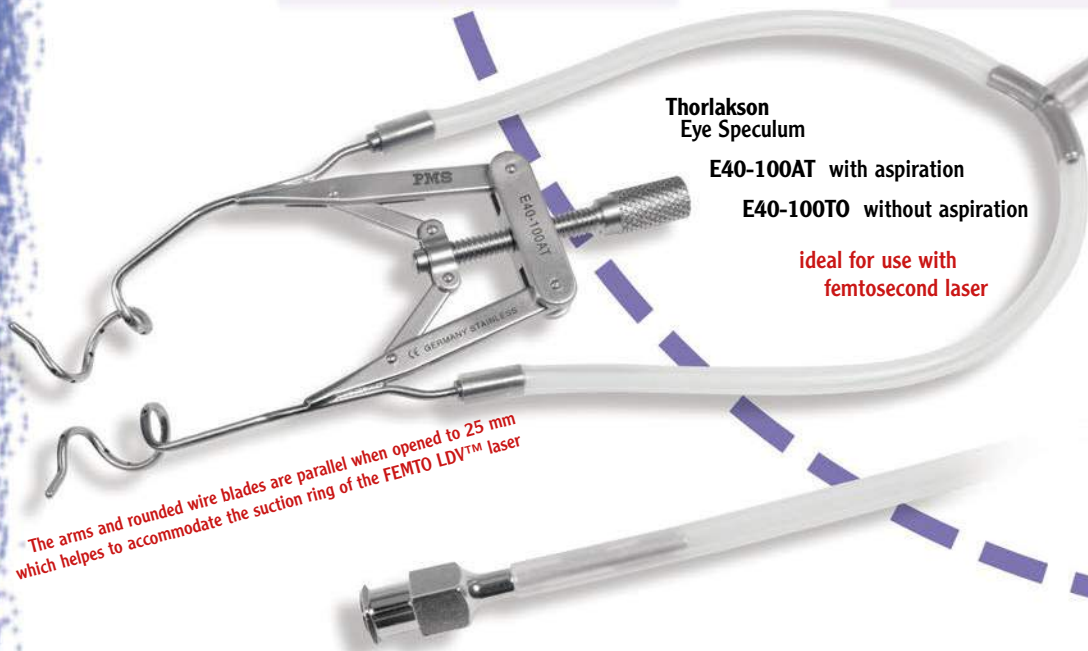


E40-100AT
Thorlakson, 8 ports open 12 mm blade



E40-100AC
Chu Reversible, 3 ports solid 15 mm blade

Centrally aligned aspiration ports allow the speculum to be used either nasally or temporally.



Thorlakson
Eye Speculum

E40-100AT with aspiration

E40-100TO without aspiration

ideal for use with femtosecond laser

The arms and rounded wire blades are parallel when opened to 25 mm which helps to accommodate the suction ring of the FEMTO LDV™ laser

SPECIALITIES



*SuperDrainer for
Cataract/Refractive
Surgery*

This device has been designed to maintain a good field of operation by preventing excess fluids and particulate matter from stagnating in the deep-set-eye during cataract/refractive procedures.

In conventional aspirating speculum, the aspirating port faces the conjunctiva. Consequently, the conjunctiva is often aspirated during surgery and the port tends to become clogged. To solve this problems, aspirating speculum have several ports. But since some ports are open to the air, only air is aspirated, resulting in a reduction of the aspiration effect.

This new design provides the aspirating ports in a canteen-shaped vessel and can handle a large volume of fluid without the risk of occlusion by the conjunctiva and without aspirating air as long as there is fluid in the field.



Video available

他社にはない商品

designed by Dr. Syuji Maeda,
Maeda Ophthalmic Clinic, Aizuwakamatsu City, Japan



SuperDrainer Surgical Aspirator
complete, 400 mm long silicone
tubing with LL-adaptor
SP20340 large, 9 x 5 mm
SP20341 small, 7 x 5 mm

Patent No. 3006788

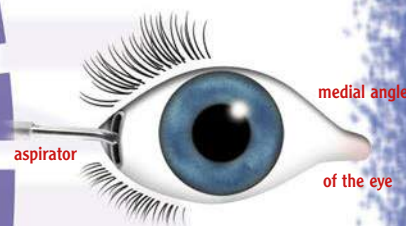
*We turn your good ideas
into reality.*

SuperDrainer Suction Speculum

E40-016A Markomanolakis
long suction tube with bevel blunt tip

E40-015A Maeda
short suction tube with silicone tip

large 3.5 mm bore suction tube
for effective drainage of excess
fluids and particulate matters



SuperDrainer inserted into the conjunctival sac of the eye ball

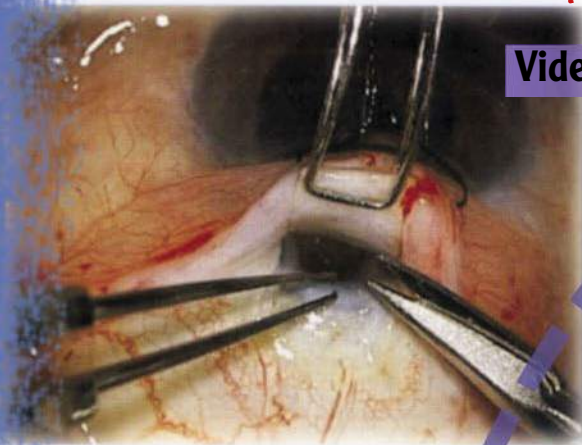


15 mm blades

SPECIALITIES



BENKEIKUN
Scleral Flap Retractor



Video available

It is not easy to insert a trabeculotome with one hand while holding the scleral flap with the other during a trabeculectomy, since the procedure often leads to early perforation if you are not accustomed to it. Benkeikun was designed to pull the scleral flap toward the cornea by simply securing the flap with a clip. This makes both hands available and will facilitate difficult manipulations during trabeculectomy. The visibility within the dissected scleral flap can be further improved by anchoring the retractor via traction suture to the drape. For more details: info@tmi-st.com.

designed by Prof. Ryouji Yamakawa, University of Kurume

Metric dimensions (mm)	
Weight	0.17g
Length	11
Width of jaws	3,5
Closing force	37,8 gms

Yamakawa
Scleral Flap Retractor
E40-050

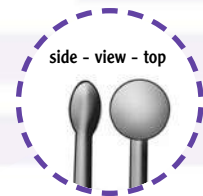


Spring design 0.17g wire construction features broad, parallel closing jaws with finely sandblasted inside surfaces for secure, atraumatic handling of the scleral flap and other delicate tissue. **Available on request: E30-774** Applying Forceps for Scleral Flap Retractor.

Tanna-Lieberman
Adjustable Eye Speculum
fenestrated 15 mm blades with
traction suture posts, 8.5 cm
E40-107



Blumenthal
Conjunctiva Dissector
straight 32 mm shaft, smooth
2x1.4mm biconvex tip, 13.0 cm
E15-214



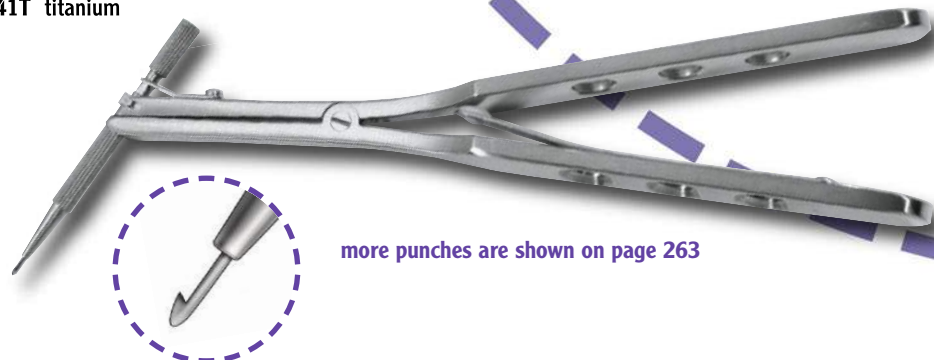
designed to gently undermine and dissect the bleb pocket

Fechtner
Conjunctiva Forceps
delicate ring shaped tips
with tying platform, 10.5 cm

E30-241 stainless steel
E30-241T titanium



Luntz-Dodick
Trabeculectomy Punch
E40-995 all stainless steel
E40-995T titanium handle



more punches are shown on page 263

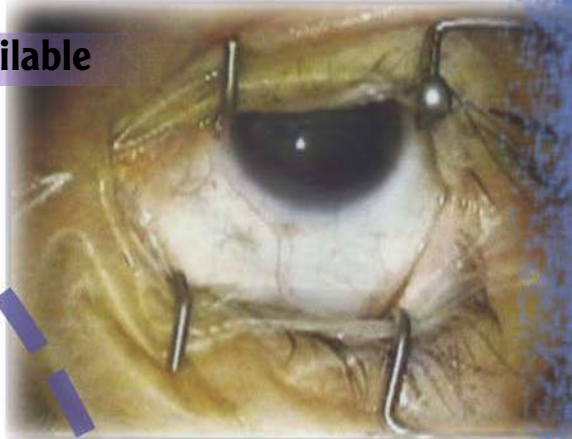
SPECIALITIES



**KINOKO -
Lid Retractor**

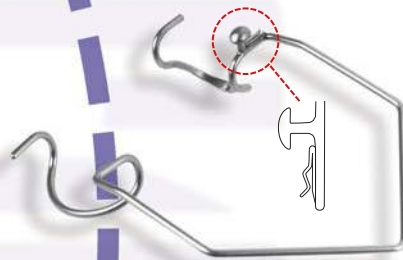
Video available

In the usual surgical procedures for glaucoma surgery, it is necessary to rotate the eyeball downward. However, the method of applying a suture to the superior rectus muscle placement causes pain. To solve this problem and to secure a wide surgical field, the author has designed an innovative new wire speculum to retract the eyelids as well as position the globe in preparation for a trabeculotomy procedure. It features a Kratz Style Wire Speculum for effective lid control and a notch, clip and mushroom shaped post for securing traction sutures. By anchoring directly to KINOKO rather than the drape the globe can be rotated for full exposure in a controlled fashion. A suture can be easily attached or detached. For more details: info@tmi-st.com.



designed by Syuji Maeda, MD,
Maeda Ophthalmic Clinic, Aizuwakamatsu City, Japan

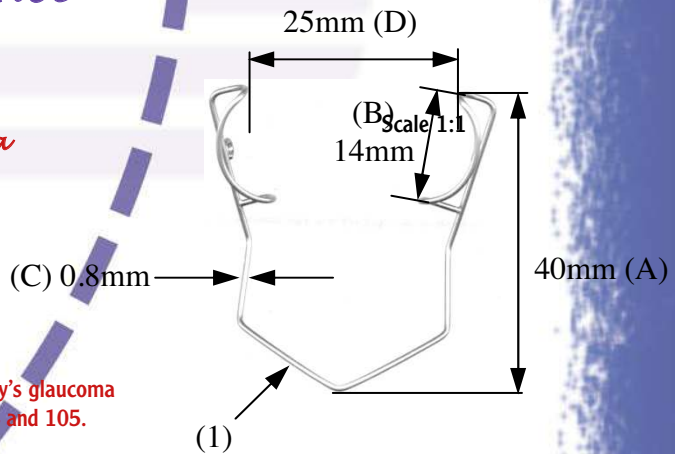
Kinoko
Triple Procedure Glaucoma Lid Retractor
open 13 mm deeply curved wings, one wing
with traction suture anchor post, clip and notch
E40-036R for right eye
E40-036L for left eye



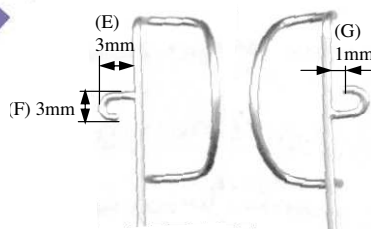
他社にはない商品

...be part of our experience

Maeda
Glaucoma Speculum
fenestrated 14 mm blades with
hooks for securing traction sutures
E40-039



other helpful instruments for today's glaucoma surgery are illustrated on page 104 and 105.

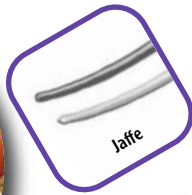


SPECIALITIES



...have micro-miniature *0.1 mm tips*
and *1x2 teeth of .06 mm* in height.

SPECIALITIES



Tying Forceps

smooth jaws with platform

KE55200 Jaffe, straight

KE55210 Jaffe, curved

McPherson Forceps

smooth jaws with platform

KE55000 straight, 5 mm

KE55010 angled, 5 mm

KE55030 angled, 7.5 mm, Kelman-

KE55049 angled, 10 mm, Bechert-

Suture Tying Forceps

1x2 straight 90° teeth with platform

KE52020 Jaffe-Bonn, 0.12 mm

KE52300 McPherson, 0.4 mm

Suturing Forceps

1x2 oblique 45° teeth with platform

KE52500 Castroviejo, 0.12 mm

KE52510 Castroviejo, 0.3 mm

KE51800 Pierce, notched 0.1 mm tips

Corneal Colibri Forceps

1x2 oblique 45° teeth of 0.12 mm

KE51900 Castroviejo, without platform

KE51902 Harms, with platform

Capsulorhexis Forceps

extremely thin 11 mm long straight shafts

*KE55081 Utrata, triangular grasping tips

*KE55083 Nevyas, cystotome shaped tips

KE55088 Jaffe, blunt ball shaped tips

*KE55084 Masket, curved shafts,
triangular tips

* also available on
ergonomic round handle, see page 251



at the Peak of Performance

- thin profile straight and curved 11 mm shafts
- triangular grasping tips to use as a cystotome
- laser lines on jaws to gauge capsulorhexis size
- flat fenestrated handle for controlled movement

for MICS through 1.5 mm incision

Auffahrt
cross-action curved and vaulted shafts,
(Giannetti type) fine pointed tips, 9.5 cm

New

- E30-598 flat serrated handle
- E30-599 round knurled handle

curved and vaulted
(Giannetti)

cross-action design with stop pin
control maximum spread and reduce
the risk of stretching incision size.

for standard phaco 2.5 mm + incision

- *E30-581 Utrata, triangular tips
- E30-581T Utrata, titanium
- *E30-585 Nevyas, cystotome shaped tips
- E30-585T Nevyas, titanium

straight shaft
(Utrata)



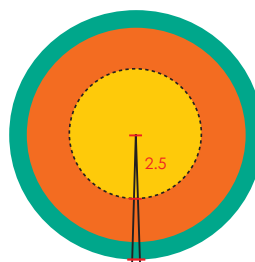
Capsulorhexis forceps on round knurled handle
which "fit the fingers" are shown on page 251.

for 2.2 mm sub incision

- *E30-589 Masket, triangular tips
- E30-589T Masket, titanium

curved shaft
(Masket)

dashed line is the intended
capsulorhexis size of 5.0 mm



* also available with laser lines at
2.5 mm and 5 mm from the tip
to gauge a precisely sized 5 mm
capsulotomy

SPECIALTIES



This titanium range is a distinctive new concept of micro instruments, which "fit the fingers" to give the Ophthalmic Surgeon a better balanced control. The round bodied handle provides the ultimate in fingertip control and response and thus facilitates precise as well as controlled and fatigue-free working.

New



Thorpe



Kraff-Bonn



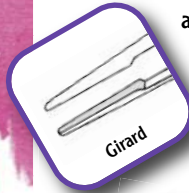
Maumenee-Colibri



Utrata straight



Masket curved



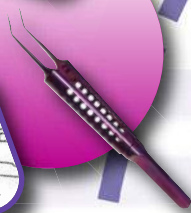
Girard



Maumenee



Kraff (Castroviejo)



Girard

Micro Tying Forceps
smooth 6 mm TC coated platform
with 0.3 mm micro tips, 10.4 cm

- TP30440 straight
- TP30441 curved
- TP30443 angled

Maumenee

Tying Forceps
V-groove 6 mm TC coated platform
with 0.5 mm delicate tips, 10.4 cm

- TP30466 straight
- TP30467 curved
- TP30469 angled

Thorpe

Corneal Fixation Forceps
extra delicate 2 x 3 teeth, 0.12 mm with
3.5 mm long TC coated platform, 9.5 cm

TP30236

Suture Tying Forceps

extra delicate 0.1 mm teeth
with TC coated platform, 10.4 cm

TP30430 Kraff-Bonn straight 90° teeth

TP30450 Kraff-Castroviejo oblique 45° teeth



our tying and suture forceps have
Tungsten Carbide coated platforms

Maumenee

Colibri Corneal Forceps
extra delicate 0.1 mm teeth set at 45° with
TC coated 6 mm long platform, 10.4 cm

TP30093

Capsulorhexis Forceps

very thin 11.5 mm long shafts with
pointed grasping tips, 10.4 cm

TP30583 Utrata straight shaft

TP30590 Masket curved shaft



SPECIALITIES



Think pink !



TP15611

shafts angled 10 mm made of one-piece stainless steel



TP15613



TP15615

Micro Manipulators

(blow up of tips are shown on page 131)

- TP15561 Sinskey II Lens Manipulating Hook
- TP15565 Kuglen Iris and IOL Manipulator
- TP15423 Jaffe-Bechert Nucleus Rotator

Phaco Choppers

(for horizontal, vertical, quick chopping)

- TP15611 Nichamin, ball shaped 1,1 mm/90° edged tip
- TP15613 Phaconit Quick-Chop, pointed 1.3 mm long tip
- TP15615 Lens Crushing Knife, 1.5 mm cutting part

Capsulotomy Scissors

(delicate stainless steel blades with sharp tips)

- TP25400 Vannas, straight 5 mm blades
- TP25401 Vannas, curved 5 mm blades
- TP25411 Gills-Vannas, curved 8.5 mm
- TP25435 Stern-Gills, angled 10 mm blades

Other stainless-titanium scissors available

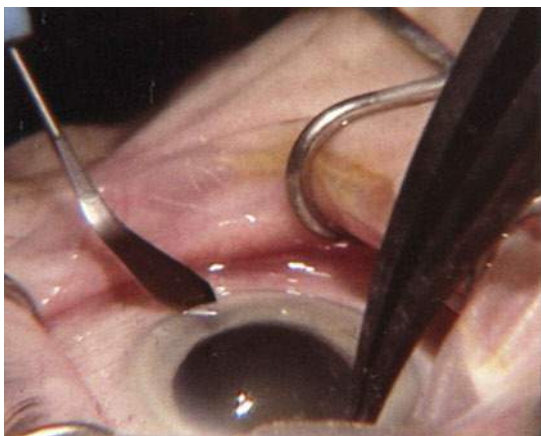
- TP25011 Castroviejo Micro Corneal, curved
- TP25070 Troutman Corneal Section, right
- TP25071 Troutman Corneal Section, left
- TP25315 Westcott Stitch, sharp tips
- TP25334 Westcott Tenotomy, blunt tips

Barraquer Micro Needle Holders

(delicate TC coated curved jaws, 0.4 mm tips)

- TP35201 w/o lock, 10.4 cm
- TP35203 with lock, 10.4 cm
- TP35251 w/o lock, 12.0 cm
- TP35253 with lock, 12.0 cm

Cataract Extraction



starts with an appropriately constructed 2.2 mm incision

PMS now offers a complete MSICS Set made of high grade stainless steel. It includes one each of the following instruments as well as an instrument sterilizing tray:

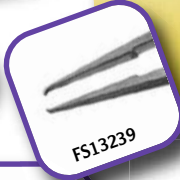
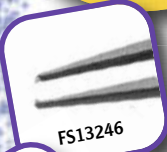
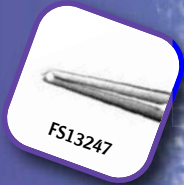
- E42-118 Manual Small Incision Cataract Set
- E40-100 Lieberman K-Wire Speculum, page 245
- E15-561 Sinskey II Angled Lens Hook, page 246
- E15-409 Barraquer Iris Spatula, vaulted, page 246
- E35-251 Barraquer Curved Needle Holder, page 241
- E30-093 Maumenee-Colibri Forceps, page 249
- E25-400 Vannas Straight Scissors, page 241
- E25-315 Westcott Stitch Scissors, page 241
- E30-567 Kansas Nucleus Fragment Forceps, page 101
- E30-581 Utrata Capsulorhexis Forceps, page 233
- E30-623 Blaydes Lens Holding Forceps, page 122
- E15-441 Kansas Lens Nucleus Loop (not shown)
- E30-902 Halstead Mosquito Forceps, page 266
- E20-300 Simcoe Original I/A Cannula, page 244
- E45-015 Instrument Sterilizing Tray, page 294

SPECIALTIES



French Style

SPECIALITIES



Pincès à monofilament

(à plateaux de 6 mm, ultra affinés)

FS13241 de Tennant, droite

FS13243 de Tennant, courbe

Pincès de McPherson

(mors à plateaux ultra fins, coudée à...)

FS13265 de McPherson, ... 5 mm

FS13261 de Waring-, ... 7 mm

FS13242 de Bechert-, ... 11 mm

Pincès à sutures cornée

(à plateaux et micro dents de 0.1 mm face à face)

FS13160 de Bonn, modèle court, 7.5 cm

FS13161 de Bonn-Moria, branches courtes, 9.5 cm

FS13246 de Bonn-Kraff, branches longues, 11.0 cm

Pincès à fixation cornée

(dents obliques de 0.1 mm et plateaux pour fils)

FS13239 de Castroviejo-Waring, droite

FS13240 de Kraff-Moria, type colibri

FS13247 de Pierse, droite alvéolée 0.1 mm

Pincès pour implants pliables

(mors polis haute-finition coudée à...)

FS17151 de Buratto, biconvex, 9 mm

FS17161 de Crozafon, arrondis 11 mm

Pincès à capsulorhexis de 2.2 mm

(mors ultra fins, pointus et à plateaux)

FS17163 de Corydon, courbe

*FS18259 de Corydon, courbe

*FS17162 de Nevyas, droite

FS17160 d'Utrata, droite - mousse

FS17165 Giannetti, courbe

*avec les lignes Laser 2.5 et 5 mm pour mesurer la capsulorhexis



d'autres micro ciseaux à cornée, conjonctive et ténotomie sont illustrés dans le catalogue général ophtalmologique PMS pages 59 et 248

Micro-ciseaux de Worst

(longues lames fines de 9 mm)

FS17000 courbes - mousses

FS17001 courbes - pointus

FS17005 demi-courbes - mousses

FS17005

FS17001

Micro-ciseaux de Vannas

(lames mousses très fines de 5 mm)

E25-402 droites

E25-403 courbes

Micro-ciseaux de Gills –

(lames pointues, affinées de 11 mm)

E25-430 Welsh, droites

E25-431 Welsh, courbes

E25-435 Aron-Rosa, coudés

Porte-aiguilles de Castroviejo

(mors standard de 11 mm x 1.2 mm, 14 cm)

E35-100 droite, sans verrou

E35-101 courbe, sans verrou

E35-102 droite, avec verrou

E35-103 courbe, avec verrou

photo échelle 0.8

Micro porte-aiguilles de Troutmann-

(mors ultra fins de 8 mm x 0.5 mm, 10 cm)

FS09911 O'Brien, droite, sans verrou

FS09960 O'Brien, courbe, sans verrou

FS09961 O'Brien, courbe, avec verrou

FS13244 Aron-Rosa, coudé, sans verrou

Micro porte-aiguilles de Barraquer

(mors fins de 9 mm x 0.7 mm, 12.5 cm)

FS07252 courbe, sans verrou

FS07253 courbe, avec verrou

FS09911

FS07252

FS13244

E35-101

SPECIALITIES



Tous les modèles sont aussi disponibles avec un manche en titane de couleur, s'il vous plaît vous référer à la page 242



FS18210



FS18216



FS18227



FS13225



FS13227



FS17157



FS18039



FS18105

Crochets manipulateurs à phaco

FS17157 de Crozafon à fourche horizontale

FS18039 de Arneodo, rond, bout mousse

FS18105 de Pisacano, bout olivaire

Micro-manipulateurs "Phaco Chop"

FS18210 de Koch 90°, "Stop & Chop"

FS18216 de Thibaut-Nagahara 60°, mousse

FS18219 de Nagahara 90°, mousse

FS18227 de Haefliger, main droite

FS18228 de Haefliger, main gauche

Crochets manipulateurs à LIO

FS13225 de Buratto-Sinsky 0.2 mm

FS13227 de Lester, "bouton de col"

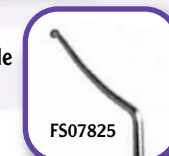
FS13228 de Kuglen, "Push & Pull"



FS13228



FS07820



FS07825

Tige et bout fabriqué d'un seul morceau d'acier inox, extrémités ultra fines, tige de 10 mm angulée

Spatules à iris

(extrémités ultra fines, coudés à 12 mm)

FS07820 de Barraquer, ronde et mousse

FS07825 de Barraquer, avec une petite boule

d'autres blépharostats sont illustrés dans le catalogue général ophtalmologique PMS pages 226-228 et 245

Blépharostats

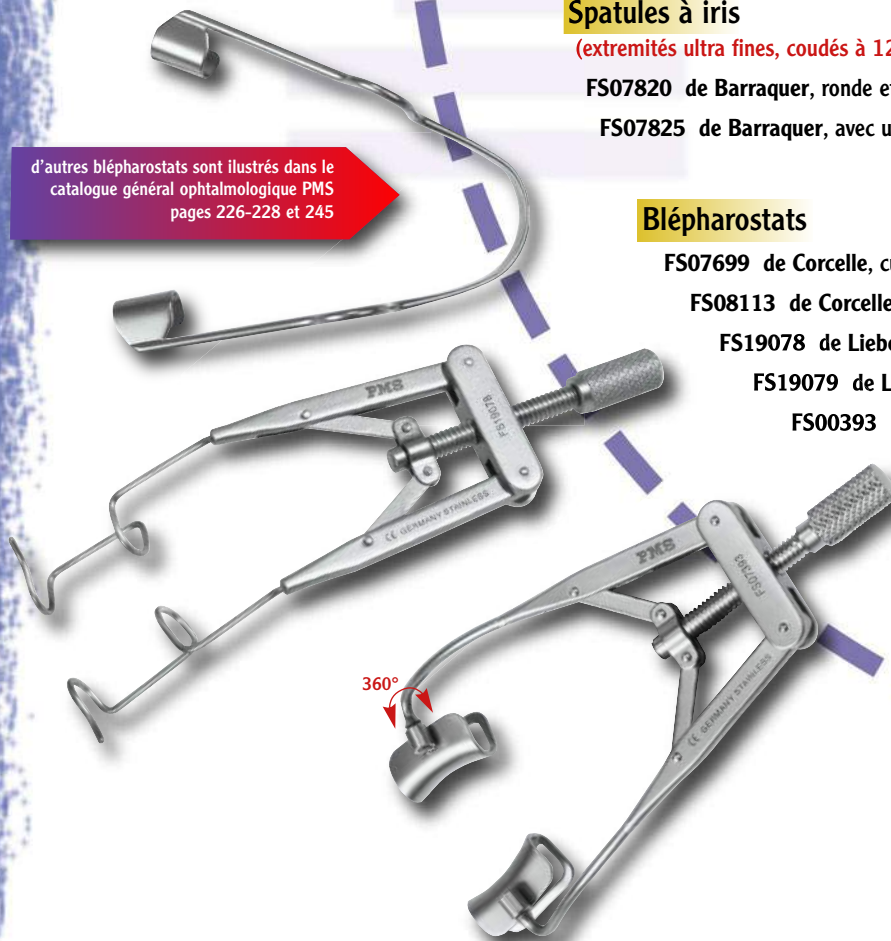
FS07699 de Corcelle, cuillers 8 mm

FS08113 de Corcelle-Legrand, cuillers 12 mm

FS19078 de Lieberman, anses 15 mm

FS19079 de Lieberman, anses 10 mm

FS00393 de Pley, cuillers 13 mm



360°

SPECIALITÉS



Nouvelle gamme de canule pour aspiration avec embout silicone



IRRIGATION

ASPIRATION



Canule monobloc pour irrigation
avec terminaison mousse, prise femelle
(canule à 2 orifices sur le cotés de Ø 0.35 mm)

E20-427 22GA/Ø 0.7 mm
E20-428 21GA/Ø 0.8 mm
E20-429 21GA/Ø 0.8 mm, à irrigation en bout

Canule monobloc pour aspiration
avec terminaison rugueuse, prise mâle
(canule à orifice supérieur de Ø 0,35 mm)

E20-437 22GA/Ø 0.7 mm
E20-438 21GA/Ø 0.8 mm
E20-439 21GA/Ø 0.8 mm mousse

Manipulateur de noyau pour irrigation
(canule 20GA/Ø 0.9 mm, à 2 ports Ø 0.6 mm)

E20-480 de Neuhann, coudé à fourche



Manipulateur "Phaco Chop" pour irrigation
(canule coudée 20G/Ø 0.9 mm, à orifice en bout)

E20-482 Fine Quick-Chop, pointu
E20-485 Rosen 90°, arrandis
E20-486 Thibaut 60°, mousse
E20-489 Nagahara 90°, mousse



*Gamme de canule pour aspiration avec embout silicone

New

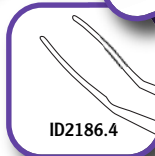
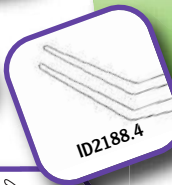
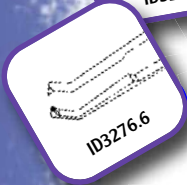
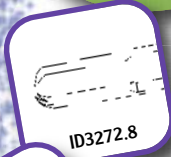
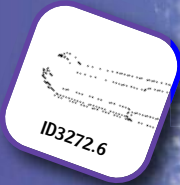
Pointe avec embout silicone	21GA/Ø 0.8 mm	23GA/Ø 0.65 mm
pointe courbe	E20-413	E20-423
pointe coudée 45°	E20-414	E20-425
embout en silicone	E20-415 b/5	E20-426 b/6
manche I/A	E20-400	E20-400

SPECIALITIES



Italian Design

Progettata per le migliori prestazioni, performance ottimali e precisione nel controllo di ogni procedura chirurgica.



Pinze serrafilì

(con piani delicati da 6 mm)

ID3207.1 Tennant, retta

ID3207.0 Tennant, curva

Pinze serrafilì, McPherson

(angolate, con piani da...)

ID3276.5 McPherson, ... 5 mm

ID3276.8 Buratto-, ... 7.5 mm

ID3276.1 Bechert-, ... 11 mm

Pinze corneali, Bonn

(con 1x2 denti retti da 0.12 mm e pff)

ID3161.0 con manico corto, 7.5 cm

ID3272.4 con branche corte, 9.5 cm

ID3272.2 con branche lunghe, 11.0 cm

Pinze corneo-sclerali

(con 1x2 denti obliqui da 0.12 mm e pff)

ID3272.8 Castroviejo, retta

ID3272.6 Savaresi-Colibri

ID3276.6 Janach-Colibri, denti retti

Pinze per piegamento IOL morbide

(angolate, con branche smusse e...)

ID2186.4 Buratto, biconvesse da 8 mm

ID2188.4 Crozafon, cilindriche da 11 mm

Pinze capsuloressi per MICS-MCCS

(angolate da 11 mm, apice acuto ...)

*ID3131.0 Corydon, dorso curvo

ID3131.1 Crozafon, dorso curvo

ID3133.0 Utrata, dorso retto

ID3135.1 Giannetti, dorso curvo

con zigrinatura a 2.5 e 5.0 mm per la misura della capsuloressi

SPECIALITIES



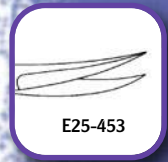
Forbici corneali sono disponibili su richiesta e illustrate nel nostro catalogo oftalmico a pagina 248



Forbici per iride e capsulotomia

(con lame acute e delicate da 5 mm)

- E25-400 Vannas, retta
- E25-401 Vannas, curva
- E25-405 Vannas, angolata
- E25-442 Ong, angolata da 9 mm



Forbici per capsulotomia

(con lame curve e sottili da 8 mm)

- E25-451 smussa
- E25-453 acuta



Forbici Tipo Westcott

(con lame curve e robuste da 12 mm)

- E25-315 acuta, per togliere i punti
- E25-334 smussa, per tenotomia
- E25-331 McPherson, per congiuntiva



Port'aghi congiuntivale/palpebrale

(con piani delicati da 10 x 1.0 mm, 14.0 cm)

- E35-130 Castroviejo, retto, senza arresto
- E35-131 Castroviejo, curvo, senza arresto
- E35-132 Castroviejo, retto, con arresto
- E35-133 Castroviejo, curvo, con arresto



Port'aghi per sutura corneale

(con piani molto delicati da 9 x 0.5 mm, 11.5 cm)

- E35-250 Troutman, retto, senza arresto
- E35-251 Troutman, curvo, senza arresto
- E35-253 Troutman, curvo, con arresto
- E35-231 Barraquer, curvo, 13.5 cm
- E35-233 Barraquer, curvo, con arresto

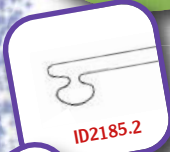
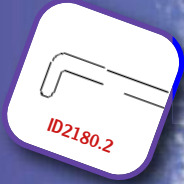


SPECIALTIES

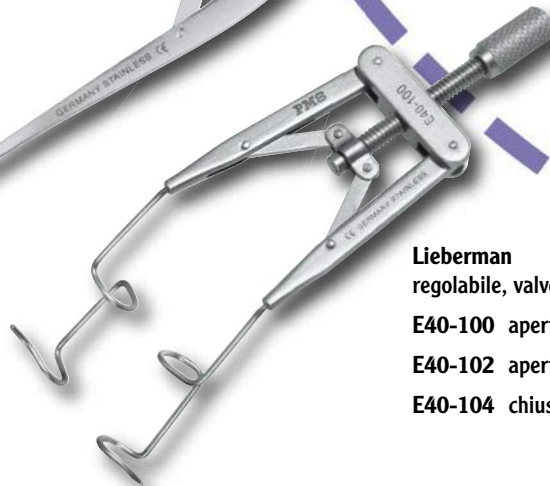
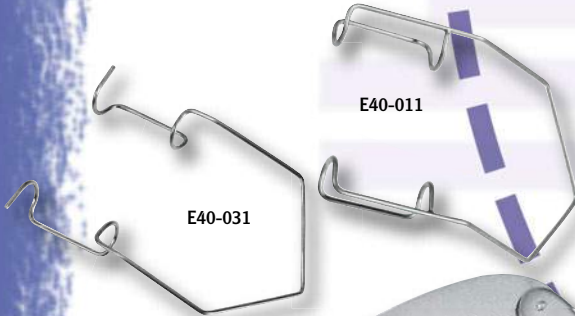


strumenti con manici in titanio colore

I manici sono disponibili anche in acciaio. Aggiungere la "S" al codice



punte in acciaio, angolate da 11 mm, con braccio: *retto - *curvo



Manipolatori del nucleo

(con manico colore viola)

*ID2192.2 Buratto, punta retta ad oliva

*ID2192.7 Ligabue, piatta bottonuta, sabbata

*ID2192.9 Drysdale, punta spatolata più sottile

Uncini-manipolatori per IOL

(con manico colore blu)

*ID2193.6 Osher, punta a "Y" verticale

*ID2193.1 Lester, punta push-pull

*ID2180.2 Sinskey, punta 0.2 mm

Phaco Chopper

(con manico colore rosa)

*ID2180.4 Rosen-Galan 90°, fronte arrotondato

*ID2180.6 Nagahara 60°, punta smussa

*ID2180.9 Nagahara 90°, punta smussa

Uncino da iride

(con manico colore giallo)

*ID2182.2 Bonn, punta 0.3 mm

*ID2185.2 Kuglen, punta push-pull

Spatole per iride

(con manico colore verde)

*ID2407.1 Barraquer, 10x0.5 mm

*ID2407.2 Troutman, 10x0.25 mm



Blefarostati

E40-011 Barraquer, valve da 15 mm

E40-012 Barraquer, valve da 10 mm

E40-031 Kratz-Barraquer, valve da 15 mm

E40-078 Castroviejo, valve da 16 mm

E40-079 Castroviejo, valve 13 mm

Lieberman regolabile, valve da 15 mm

E40-100 aperte tipo Kratz

E40-102 aperte a "V"

E40-104 chiuse

SPECIALTIES



Sistema nuova coassiale I/A
per Irrigazione/Aspirazione

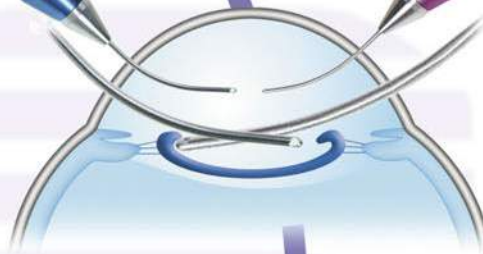
composto da manico e
punte intercambiabili



INFUSIONE



ASPIRAZIONE



Monopizzo per infusione di colore blu
(con cannula curva a 2 fori laterali Ø 0.35 mm)

- E20-427 Ø 0.7 mm, punta smussa
- E20-428 Ø 0.8 mm, punta smussa
- E20-429 Ø 0.8 mm, foro frontale

Monopizzo per aspirazione di colore oro
(con cannula curva a foro superiore Ø 0.35 mm)

- E20-437 Ø 0.7 mm, punta sabbata
- E20-438 Ø 0.8 mm, punta sabbata
- E20-439 Ø 0.8 mm, punta smussa

Manipolatore del nucleo irrigante
(20G/0.9 mm, a 2 fori laterali Ø 0.6 mm)

- E20-480 Neuhann, punta a forcella



Phaco chopper irrigante
(20G/0.9 mm con infusione frontale)

- E20-482 Fine Quick-Chop, punta acuta
- E20-485 Rosen 90°, fronte arrotondato
- E20-486 Thibaut 60°, punta smussa
- E20-489 Nagahara 90°, punta smussa



*Gamma di punte intercambiabili per manici I/A coassiali

Punte p. sleeve silicone	21GA/0.8 mm	23GA/0.65 mm
Punta curva	E20-413	E20-423
Punta angolata 45°	E20-414	E20-425
Sleeve in silicone	E20-415 c/5	E20-426 c/6
Manico I/A	E20-400	E20-400

New

SPECIALITIES



POPULAR EYE INSTRUMENTS

100%  made

SPECIALITIES



**Bishop-Harmon
AC Irrigator System**

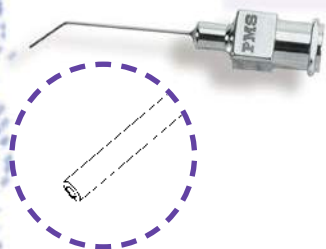
- E20-001 complete
- E20-002 silicone bulb
- E20-003 LL adaptor
- E20-004 19GA cannula



Simcoe

Double I and A Cannula
23/23GA x 15 mm long tube with
0.3 mm aspirating port and tubing kit

- E20-300 original model
- E20-301 reverse model



Rycroft

Air Injection Cannula
20 mm tube, angled 5 mm

- E20-030 30GA/0.3 mm
- E20-031 27GA/0.4 mm
- E20-032 25GA/0.5 mm



Schocket
Double Scleral Depressor
with pocket clip, 13.5 cm

- E40-613 stainless steel
- E40-613T titanium handle



Fine-Thornton

Phaco Fixation Ring
3/4 open swivel ring, 13 mm ID,
multiple teeth, 13.5 cm

- E10-513 stainless steel
- E10-513T titanium

Castroviejo

Eye Caliper, straight 0-20 mm scale
on either side in 1 mm increments

- E40-554 stainless steel
- E40-554T titanium



Maloney
Astigmatic Keratometer

E10-690T
for qualitative evaluation
of astigmatism



POPULAR EYE INSTRUMENTS

PMS



Barraquer, wire
E40-011 adult size, 15 mm
E40-012 child size, 10 mm

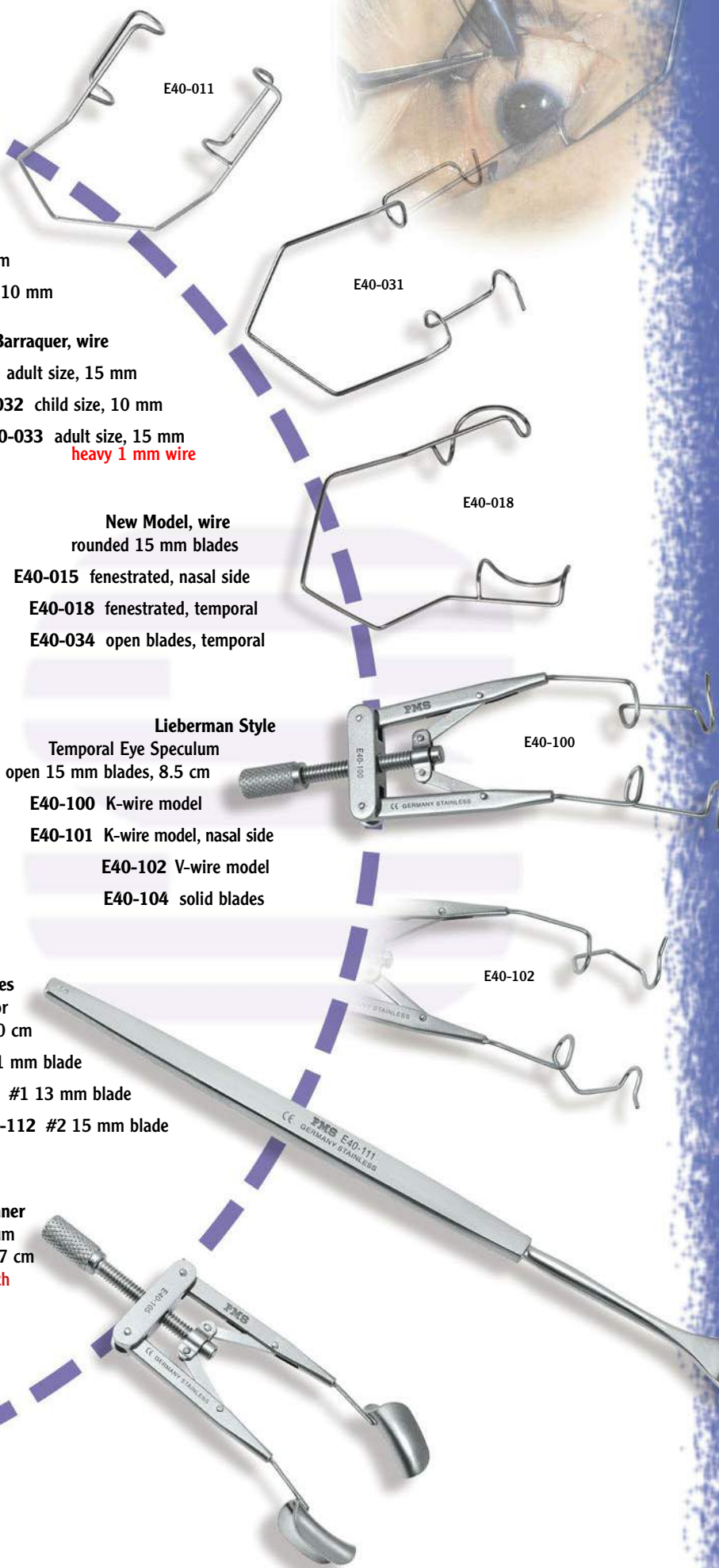
Kratz-Barraquer, wire
E40-031 adult size, 15 mm
E40-032 child size, 10 mm
E40-033 adult size, 15 mm
 heavy 1 mm wire

New Model, wire
 rounded 15 mm blades
E40-015 fenestrated, nasal side
E40-018 fenestrated, temporal
E40-034 open blades, temporal

Lieberman Style
 Temporal Eye Speculum
 open 15 mm blades, 8.5 cm
E40-100 K-wire model
E40-101 K-wire model, nasal side
E40-102 V-wire model
E40-104 solid blades

Desmarres
 Lid Retractor
 thin solid blade, 14.0 cm
E40-110 #0 11 mm blade
E40-111 #1 13 mm blade
E40-112 #2 15 mm blade

Kershner
 Reversible Speculum
 solid 14 mm blades, 7.7 cm
 for nasal and temporal approach
E40-105

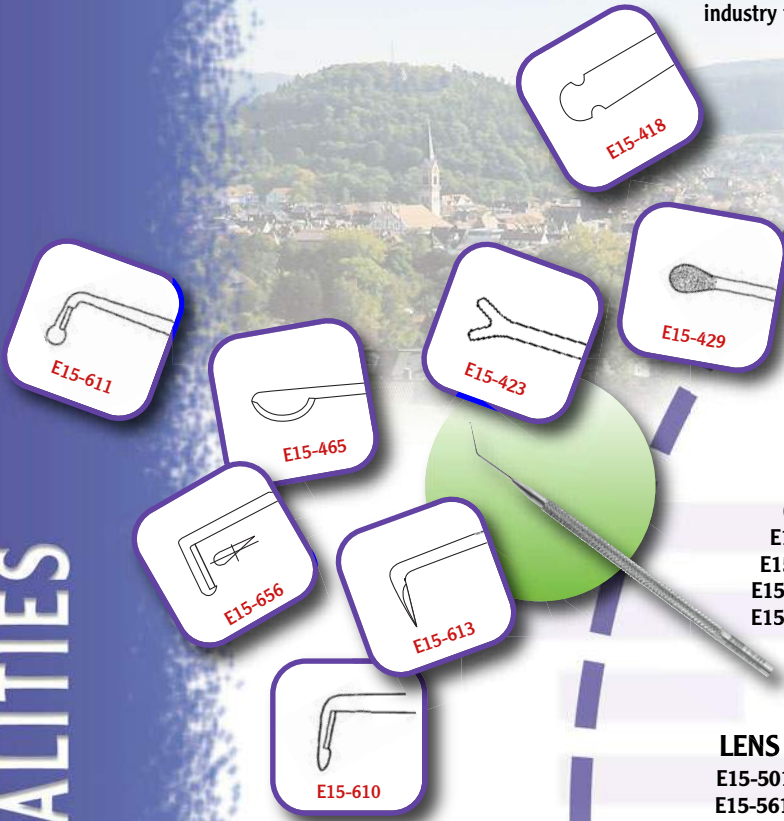


SPECIALTIES



... exclusively produced
in Tuttlingen home of the instrument making
industry for almost 200 years

SPECIALITIES



NUCLEUS MANIPULATORS

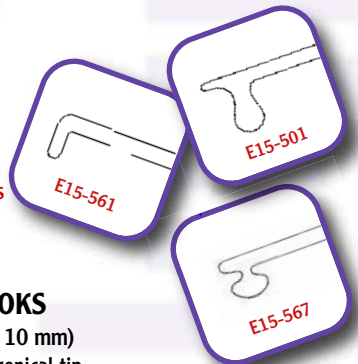
E15-418 Koch II, curved notched tip
E15-423 Jaffe-Bechert, angled forked tip
E15-429 Ligabue, vaulted flat/buttoned tip
E15-465 Drysdale, angled paddle shaped tip
very effective instruments to push, lift, rotate,
dissect and fracture nuclear and cortical material

PHACO SPLITTER & CHOPPERS

(wedge shaped tip with inferior cutting edge)
E15-611 Nichamin 90° ball shaped tip - horizontal
E15-656 Nagahara 60° blunt tip - horizontal
E15-659 Nagahara 90° blunt tip - horizontal
E15-613 Phaonit Quick-Chop, sharp tip - vertical
E15-610 Nagahara Karate, spear shaped tip - vertical
for horizontal, vertical and quick chopping

LENS MANIPULATORS

E15-501 Lester, "hour glass" tip
E15-561 Sinskey II, 0.2 mm tip
E15-567 Kuglen, "Push-Pull" tip
used to dial and position IOL's, to
retract iris; and for manipulations
in the anterior segment



shafts angled 10 mm from tips are made of
one-piece medical grade stainless steel

IRIS REPOSITORS & HOOKS

(round, smooth blade vaulted at 10 mm)
E15-408 Barraquer, 0.25 mm conical tip
E15-409 Barraquer, 0.5 mm cylindrical tip
E15-607 Bonn, 0.3 mm reverse curved tip
ideal for repositioning – push, retract
and retain – the iris during ECCE



**Graefe
Strabismus Hook**

E40-771 #1 small
E40-772 #2 medium
E40-773 #3 large





... hand-crafted
for hand use

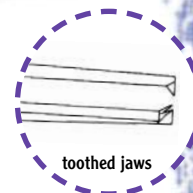
Bishop-Harmon
Dissecting Forceps
straight, 8.5 cm
E30-100 criss-cross serrated
E30-103 0.3 mm teeth
E30-106 0.6 mm teeth



Dressing Forceps
straight, 10.0 cm
E30-110 0.5 mm
E30-112 0.7 mm
E30-114 1.0 mm



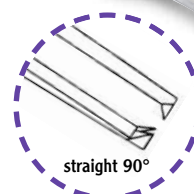
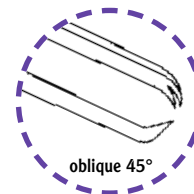
Tissue Forceps
straight, 10.0 cm
E30-120 0.5 mm
E30-122 0.7 mm
E30-124 1.0 mm



Elschnig
Scleral Fixation Forceps
oblique 1 x 2 teeth, 10.5 cm
E30-244



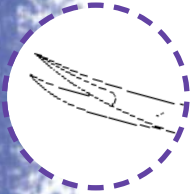
Lester
Conjunctiva Fixation Forceps
straight, 0.6 mm, 9.5 cm
E30-232 1 x 2 teeth
E30-233 2 x 3 teeth



SPECIALITIES



Micro Corneal Scissors



Universal
Micro Corneal / Iris Scissors
straight 6 mm blades, 10.0 cm

- E25-002 sharp tips
- E25-004 sharp/blunt
- E25-006 blunt tips

curved 6 mm blades

- E25-003 sharp tips
- E25-005 sharp/blunt
- E25-007 blunt tips



Castroviejo

Universal Corneal Scissors
8 mm blades, blunt tips, 10.0 cm

- E25-011 slightly curved blades
- E25-013 medium curved blades
- E25-015 medium 12 mm blades



Troutman

Micro Corneal Section Scissors
curved 6 mm blades, 10.0 cm

- E25-062 right
- E25-063 left



Katzin

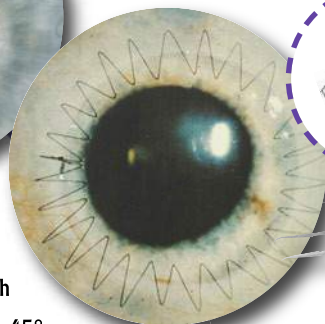
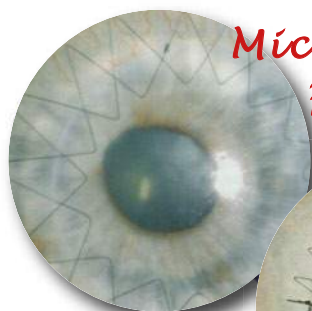
Micro Corneal Transplant Scissors
strong curved 6 mm blades, 10.0 cm

- E25-100 right
- E25-101 left

Micro Corneal Scissors with universal, right and left curved blades are ideal for wound enlargement and completion of trephine cuts



*Micro Corneal
Forceps*



Maumenee-Colibri
cross-action flat handle,
smooth 6 mm platform,
delicate 0.12 mm teeth

E30-093 oblique 45°

E30-094 straight 90°

Harms-Colibri
smooth 6 mm platform,
oblique 1 x 2 teeth, 7.3 cm

E30-081 0.12 mm

E30-085 0.4 mm



Polack

Double Corneal Suture Forceps
U-shaped 1 mm spread, double tips with
1 x 2 teeth, 0.12mm/45°, 7.5 cm

E30-087



St. Martin's (Paufigue)
smooth 6 mm platform,
oblique 1 x 2 teeth, 8.7 cm

E30-413 delicate, 0.3 mm

E30-415 medium, 0.5 mm

E30-418 heavy, 0.8 mm

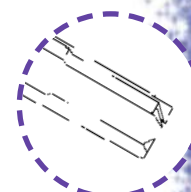


Bonn

smooth 4 mm platform,
straight 1 x 2 teeth, 0.12 mm

E30-410 short model, 7.2 cm

E30-430 long model, 9.5 cm

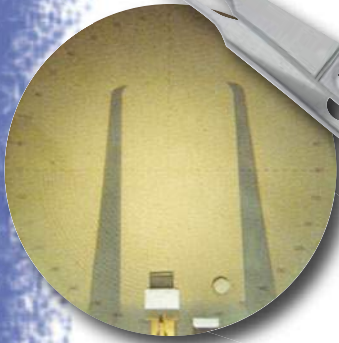


These forceps are ideal for manipulating delicate tissue, e.g. fixation of the corneal flap and continued suturing for cataract and corneal grafts.

SPECIALITIES



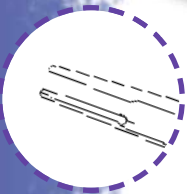
*precisely
engineered ...*



Castroviejo
Suturing Forceps
smooth 6 mm platform,
oblique 1 x 2 teeth, 11.0 cm
E30-450 0.12 mm
E30-451 0.3 mm
E30-452 0.5 mm

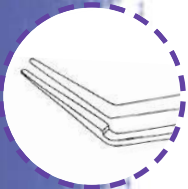


Jaffe
Micro Suture Tying Forceps
smooth 6 mm platform, 10.5 cm
E30-446 tying, straight
E30-447 tying, curved
E30-456 suture, 0.12 mm teeth



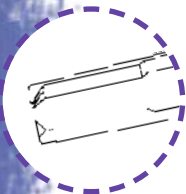
ideal ...

McPherson
Tying Forceps
smooth platform, 11.0 cm
E30-460 straight, 5 mm
E30-461 angled, 5 mm
E30-463 angled, 7.5 mm, Kelman-
E30-465 angled 10 mm, Bechert-



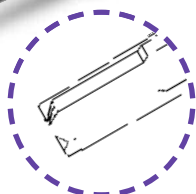
for 8-0 to ...

Troutman
Micro Suture Tying Forceps
smooth 6 mm platform, 10.0 cm
E30-428 tying, straight
E30-429 tying, curved
E30-438 suture, 0.12 mm teeth



11-0 sutures

Tennant
Micro Suture Tying Forceps
smooth 6 mm platform, 10.0 cm
E30-448 tying, straight
E30-449 tying, curved
E30-458 suture, 0.12 mm



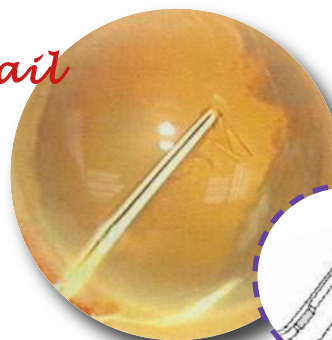
all forceps are also available in lightweight,
durable titanium, when ordering please add
"T" to end of catalog number

SPECIALTIES



... to every detail

Thin-profile angled and vaulted
11 mm shafts on round knurled
handle, which "fit the fingers"
for the best control and
surgical manoeuvres.



Utrata
Capsulorhexis Forceps
angled 11 mm shafts,
triangular tips, 10.0 cm
E30-583
E30-583T titanium



Masket
Capsulorhexis Forceps
vaulted 11 mm shafts,
triangular tips, 10.0 cm
E30-590
E30-590T titanium

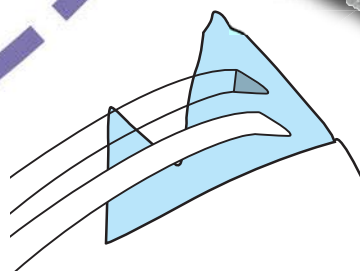


Giannetti 1.8 mm
MICS Capsulorhexis Forceps
vaulted and curved 11 mm shafts,
fine pointed grasping tips, 10.0 cm
E30-597



ideal for CCC during micro incision surgery

Inamura Style 1.5 mm
MICS Capsulorhexis Forceps
very thin vaulted 13 mm shafts,
ultra fine pointed tips, 12.0 cm
E30-591 stainless steel
E30-591T titanium



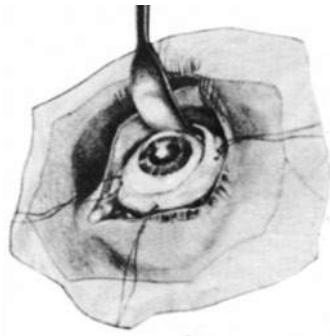
Thin-profile shafts with ultra fine grasping tips
for best control and surgical manoeuvres.

SPECIALTIES



STRABISMUS INSTRUMENTS

all instruments are also available in light weight, durable titanium, when ordering please add "T" to end of catalog number



Featured is a selection of extra delicate Muscle Hooks, multi-purpose "Teaser" and "Finder" Hooks and Tissue Retractors with thin spatulated blades for more delicate – less trauma – better results strabismus surgery.

Helveston Style Strabismus Instruments

E40-790 "Teaser" Hook, conical 6 mm long tip

E40-791 Muscle Hook, delicate blunt tip, 8 mm

E40-792 Muscle Hook, delicate blunt tip, 10 mm

E40-793 Muscle Hook, delicate blunt tip, 12 mm

E40-795 "Finder" Hook, cone shaped tip, small

E40-796 "Finder" Hook, large

The Micro Tissue Retractor

are designed for opening and closing of the conjunctiva; scleral suture placement, dissection of the scleral, and vitreo retinal procedures. The broad 11 mm wide model is also useful in orbital, plastic and strabismus surgery.

Micro Tissue Retractors
curved thin blade

E40-807 7 mm wide

E40-809 9 mm wide

E40-811 11 mm wide

Scleral Marking Ruler, titanium
curved 15 mm blade with 1 mm increments,
single tooth at the tip and a notch
at 5 mm and 10 mm

E40-557T

Helveston Tying Forceps
straight plain jaws
for 4-0 to 6-0 sutures

E30-426

Smooth jaw forceps are ideal for fine suturing.

Fine Micro Tying Forceps
curved plain jaws
for 7-0 to 9-0 sutures

E30-427

E42-132 Delicate Strabismus Surgery Set
consisting of 1 each or (x) instruments:

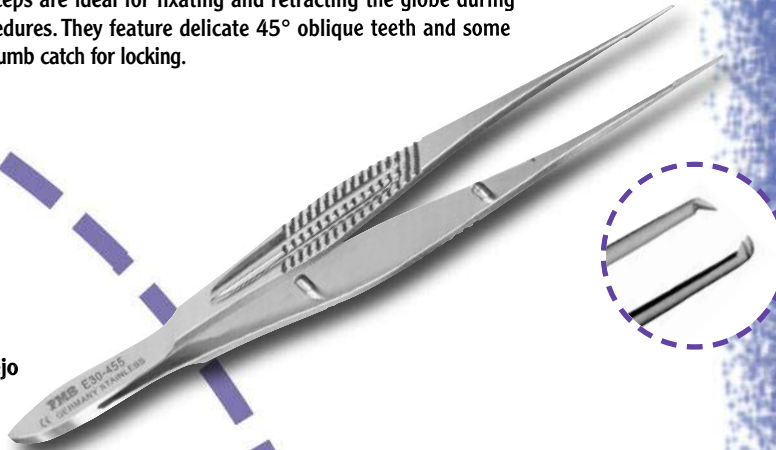
- E30-902 Halstead Mosquito Forceps (2x), page 266
- E30-934 Dieffenbach Serrefine, straight (2x), page 266
- E40-104 Lieberman Eye Speculum, solid blades, page 245
- E40-807 Helveston Micro Tissue Retractor, curved 7 mm blade
- E40-809 Helveston Micro Tissue Retractor, curved 9 mm blade
- E40-811 Helveston Micro Tissue Retractor, curved 11 mm blade
- E40-790 Helveston "Teaser" Hook, conical 6 mm long tip (3x)
- E40-795 Helveston "Finder" Hook, small, cone shaped tip
- E40-796 Helveston "Finder" Hook, large, cone shaped tip
- E40-791 Helveston Muscle Hook, blunt 8 mm tip
- E40-792 Helveston Muscle Hook, blunt 10 mm tip
- E40-793 Helveston Muscle Hook, blunt 12 mm tip
- E40-557T Scleral Marking Ruler, curved 15 mm blade

SPECIALITIES

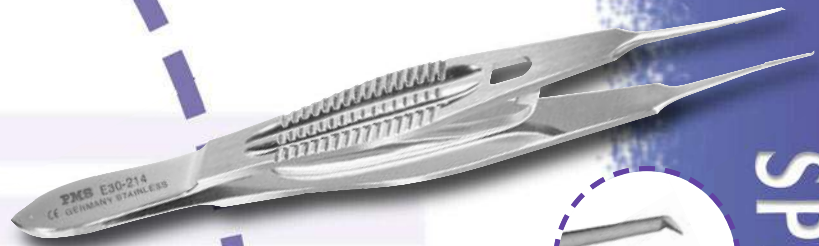


These wide handle forceps are ideal for fixating and retracting the globe during strabismus procedures. They feature delicate 45° oblique teeth and some have a thumb catch for locking.

Castroviejo
Fixation Forceps
1 x 2 teeth, 10.8 cm
E30-453 0.3 mm
E30-455 0.5 mm



Stern-Castroviejo
Fixation Forceps
1 x 2 teeth, 0.5 mm, with
thumb lock catch, 10.8 cm
E30-214 stainless steel
E30-214T titanium



Moody
Fixation Forceps
1 x 2 teeth, 0.5 mm, with
thumb lock catch, 11.0 cm
E30-216 right
E30-217 left

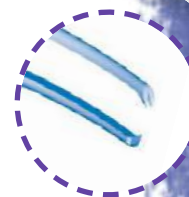


Helveston, titanium
Fixation Forceps
1 x 2 teeth, 0.6 mm, with
thumb lock catch, 11.8 cm
E30-213T



E42-132 Strabismus Set continued...

- E40-554 Castroviejo Eye Caliper, page 244
- E25-315 Westcott Stitch Scissors, page 241
- E25-334 Westcott Tenotomy Scissors, page 241
- E30-233 Lester Fixation Forceps (3x), page 247
- E30-456 Jaffe-Bonn Suturing Forceps, page 250
- E30-216 Moody Fixation Forceps, right, page 253
- E30-217 Moody Fixation Forceps, left, page 253
- E30-426 Helveston Tying Forceps (2x), straight, page 252
- E35-132 Castroviejo Needle Holder, straight, page 241
- E35-233 Barraquer Needle Holder, curved, page 241
- E20-001 Bishop-Harmon AC Irrigator System, page 244
- E10-003K Chuck Handle #3K, 10.0 cm, page 18
- E10-069 Miniature Edged Blade #69, page 18

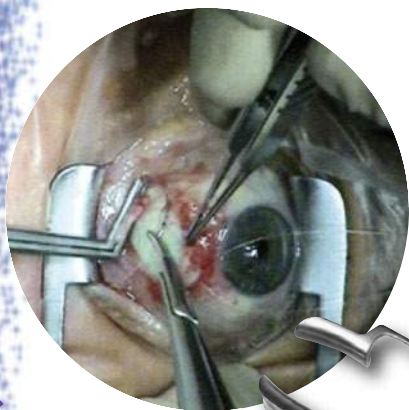


SPECIALITIES



INSTRUMENTS FOR MUSCLE RESECTION

SPECIALITIES



Putterman, titanium
6 Pins Muscle Resection Clamp
 24 mm wide blades with 3 pins on top and 3 pins on bottom, 3 aligning holes on both jaws, with thumb slide lock, 9.5 cm
E30-736T



Bangerter
Eye Speculum
 solid blades, with locking screw
E40-066 child size, 11 mm
E40-067 adult size, 15 mm



Apt's, titanium
Muscle Resection Clamp
 angled 77° shafts with 11.5 mm long tips, tongue-and-groove jaws with serrations, marked for 2, 4 and 6 mm openings
E30-732 short 80 mm handle
E30-733 long 105 mm handle

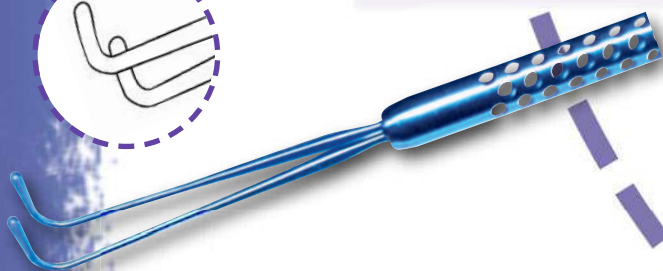
designed for use during a Muller's muscle-conjunctival resection ptosis procedure



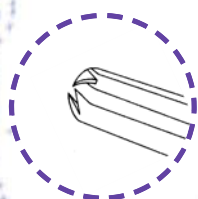
Wright, titanium
Recession Grooved Muscle Hook
 angled 14 x 2.5 mm hook, 14.0 cm
E40-784T right
E40-785T left



Wright, titanium
Recession Double Muscle Hook
 angled 11.5 mm working part, 14.0 cm
E40-786T

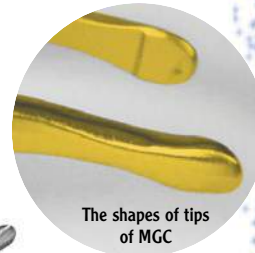


Troutman
Superior Rectus Forceps
 angled 10 mm shafts, oblique 1 x 2 heavy teeth, 10.7 cm
E30-223



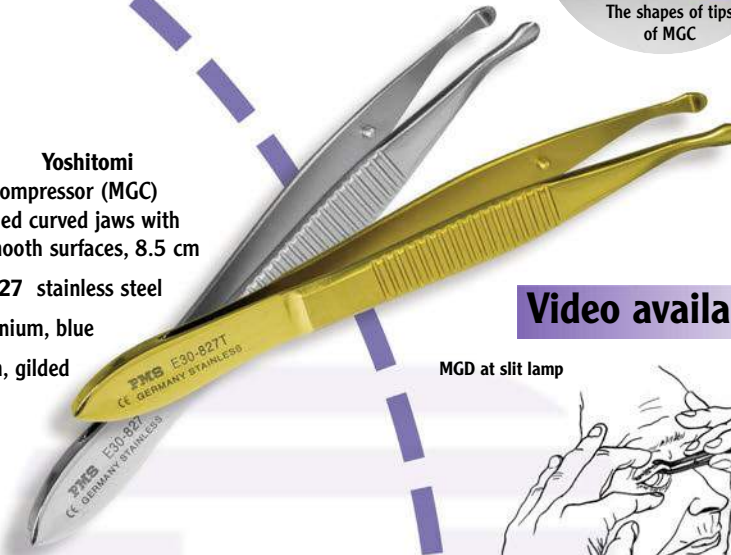


Drainage is the treatment procedure of choice



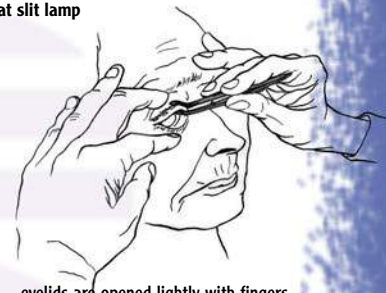
The shapes of tips of MGC

Yoshitomi
Meibomian Gland Compressor (MGC)
angled curved jaws with smooth surfaces, 8.5 cm
E30-827 stainless steel
E30-827T titanium, blue
E30-827G titanium, gilded



Video available

MGC at slit lamp



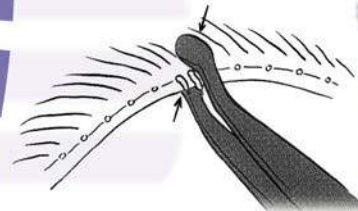
eyelids are opened lightly with fingers

This instrument was invented by Fumiaki Yoshitomi, MD, to drain meibum from dysfunctional meibomian glands (MGD) effectively.

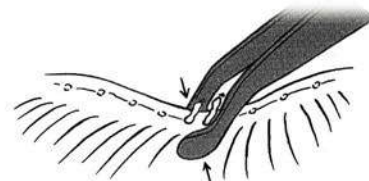
Under topical anesthesia, the eyelids are opened lightly with fingers. Then with the Meibomian Gland Compressor, the affected lid margin is gently squeezed at its anterior and posterior surface to express meibum from dysfunctional meibomian glands (MGD).

The special angles of the MGC allow the surgeon to easily insert and position the tips over the eyelid parallel to the lid margin. The broad, smooth jaws are then used to atraumatically compress the glands – relieving any occlusions with minimal pain to the patient.

MGC is user friendly and allows treatment of both upper eyelid or lower eyelid and working from either a temporal or nasal approach. Due to the curvature of the jaws, surgeon can keep his/her comfortable position during the procedure.



MGC squeezing the upper lid



MGC compressing the lower lid

Protective Eye Shell

for lid surgery with suction cup, autoclavable, available on request: with and without handle



SPECIALTIES



LID-CONJUNCTIVA/PTOSIS INSTRUMENTS

SPECIALITIES



Berke Ptoisis Forceps
 +E30-832 20 mm long
 E30-833 27 mm long



Desmarres Chalazion Forceps
 +E30-821 20 mm
 E30-822 26 mm



Jaeger Lid Plate
 metal, 11.0 cm
 +E40-128



Wright Fascia Needle
 with 1 mm by 6 mm oval hole, 13.0 cm
 may be used with *Ptose-Up*
 E40-991

images are not actual size

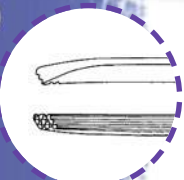
E42-131 LID-CONJUNCTIVA/TRICHIASIS-PTOSIS SET

consisting of 1 each or (x) instruments:

- E20-001 Bishop-Harmon Irrigator, page 244
- E30-902 Halstead Mosquito (2x), page 266
- E30-909 Backhaus Towel Clamp (2x), page 266
- E40-361 Kuhnt Scarifier #1, 12.0 cm, page 265
- E25-566 Stevens Tenotomy Scissors, page 261
- E25-532 Eye Scissors, straight, sh/bl tips, page 262
- E25-315 Westcott Stitch Scissors, curved, page 241
- E25-334 Westcott Tenotomy Scissors, curved, page 241
- E40-554 Castroviejo Eye Caliper, 0-20 mm, page 244
- E40-111 Desmarres Lid Retractor #1=11 mm, page 245
- E40-112 Desmarres Lid Retractor #2= 13 mm, page 245
- E40-772 Graefe Strabismus Hook, medium, page 246
- E40-451 Meyhoefer Chalazion Curette #1, page 257
- E40-453 Meyhoefer Chalazion Curette #3, page 257
- E30-106 Bishop Harmon Tissue Forceps, page 247
- E30-451 Castroviejo Suture Forceps, page 250
- E30-427 Fine Tying Forceps, curved, page 252
- E30-827 Yoshitomi MGC Forceps, page 255
- E35-131 Castroviejo Needle Holder, page 241
- E35-231 Barraquer Needle Holder, page 241
- E40-811 Helveston Tissue Retractor, page 252
- E40-812 Knapp Retractor 4-prong, page 262



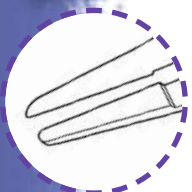
Bonaccolto Conjunctiva Forceps
 longitudinally serrated 1.2 mm jaws
 with cross serrations at tips, 10.3 cm
 +E30-238



popular



Barraquer Cilia Forceps
 angled jaws with platform, 11.0 cm
 E30-773



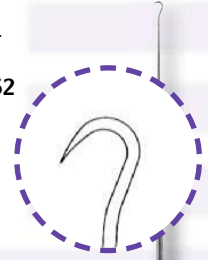
non-toothed



Nugent Utility Forceps
 angled jaws, 11.0 cm
 E30-286 smooth
 E30-287 serrated



forceps



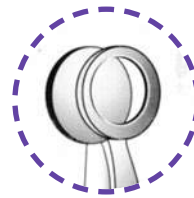
Gillies Skin Hook
 single end sharp, 17.0 cm
 +E40-754 small
 E40-756 large



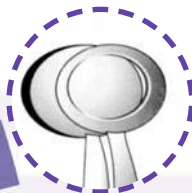
Meyhoefer
Chalazion Curettes, round,
cup-shaped sharp spoon, 12.5 cm
E40-450 #0 = 1.5 mm
E40-451 #1 = 1.8 mm
E40-452 #2 = 2.0 mm
E40-453 #3 = 2.5 mm
E40-454 #4 = 3.5 mm



Lambert
8 mm ID
*E30-808



Hunt
12 mm ID
*E30-812



Francis
14x11 mm ID
*E30-814

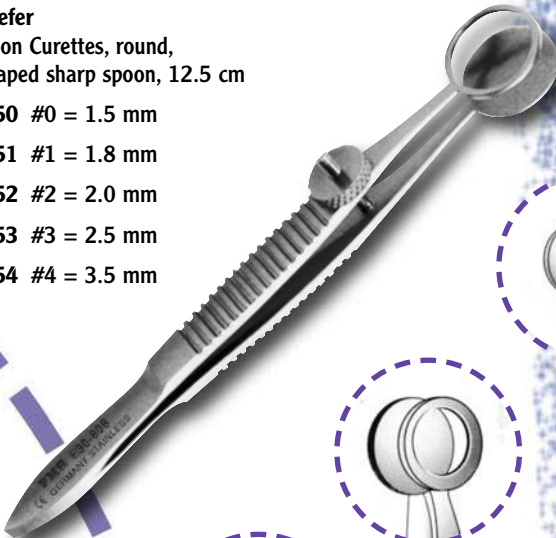
**on request also available in titanium*

E42-130 CHALAZION SURGERY SET

- complete, consisting of 1 instrument each:
E40-128 Jaeger Lid Plate, metal, page 256
E40-450 Meyhoefer Curette #0, page 257
E40-452 Meyhoefer Curette #2, page 257
E40-453 Meyhoefer Curette #3, page 257
E40-454 Meyhoefer Curette #4, page 257
E25-532 Eye Scissors, sh/bl tips, page 262
E40-203 Scalpel Handle #3, 12.5 cm page 261
E40-215 Scalpel Blade #15, sterile, page 261
E30-385 Moorfield's Forceps, fine, page 257
E30-349 Lister's Conjunctiva Forceps, page 257
E30-812 Hunt Chalazion Forceps, page 257
E30-814 Francis Chalazion Forceps, page 257
E35-131 Castroviejo Needle Holder, page 241
E45-015 Instrument Sterilizing Tray, page 294



Chalazion Forceps
round and oval
plates



Jayle's

Corneal Suture Forceps
smooth platform with
oblique 1 x 2 teeth, 10.5 cm
E30-341 0.15 mm
E30-343 0.3 mm
E30-347 0.7 mm



popular

Lister's

Conjunctiva Suture Forceps
longitudinally serrated jaws,
heavy 1.2 mm teeth, 10.0 cm
E30-348 oblique 45° teeth
E30-349 straight 90° teeth



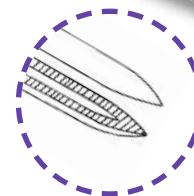
English pattern

Moorfield's
Conjunctiva Forceps
with serrations and groove

E30-385 fine, 10.0 cm
E30-386 standard, 10.7 cm



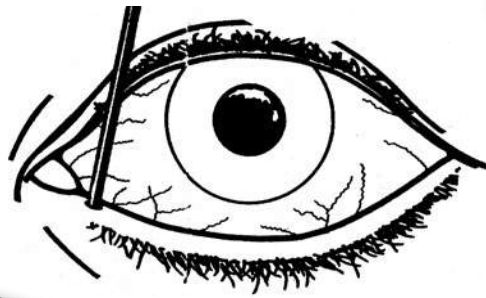
forceps



SPECIALTIES

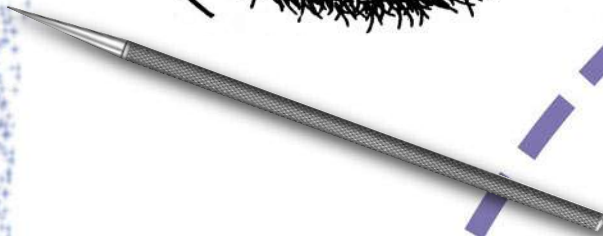


LACRIMAL DILATORS & PROBES



Castroviejo
double ended, delicate
and fine taper, 12.5 cm

E40-896



Ruedemann
extra fine #0 tip, 8.0 cm

E40-888



Wilder
blunt tip, 10.8 cm

E40-891 #1 delicate, 25 mm taper

E40-892 #2 medium, 21 mm taper

E40-893 #3 heavy, 13 mm taper

size scale of lacrimal dilators tips

fig.	0	1	2	3
mm	0.3	0.4	0.5	0.6

Sisler
Punctum Dilator

graduated shaft with blunt tip beveling from
0.35, 0.9, 1.4 to 1.9 mm OD, 9.5 cm

E40-894

one tip does the complete dilating procedure



Bowman
double ended, bulbous tip

E40-861 #0000&000

E40-862 #00&0

E40-863 #1&2

E40-864 #3&4

E40-865 #5&6

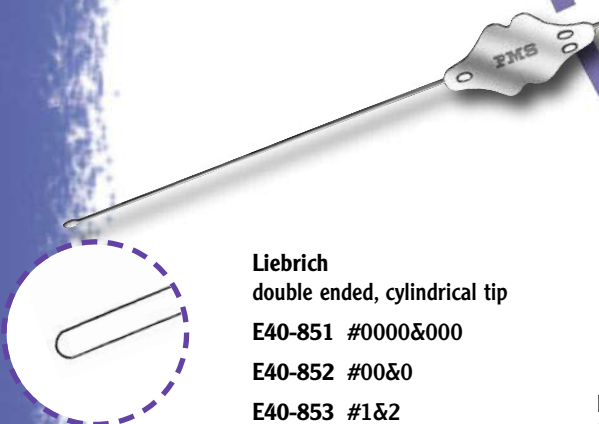
E40-866 #7&8

E40-860 set of 6



size scale of lacrimal probe tips

fig.	0000	000	00	0	1	2	3	4	5	6
ø mm	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.4	1.5	1.6



Liebrich
double ended, cylindrical tip

E40-851 #0000&000

E40-852 #00&0

E40-853 #1&2

E40-854 #3&4

E40-855 #5&6

E40-856 #7&8

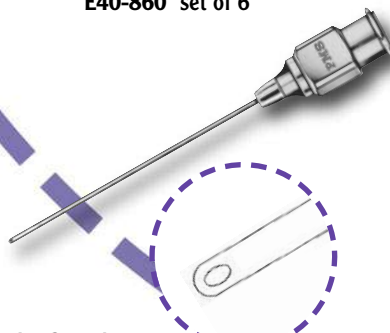
E40-850 set of 6

Bangerter

Lacrimal Probe Cannula
23G/0.6 mm OD straight tube
with large 0.6 x 0.3 mm oval side port

E20-646 40 mm

E20-647 60 mm



SPECIALITIES



simple and effective

CRAWFORD INTUBATION SYSTEM

includes 2 straight 150 mm probes with knob tip of 23G/0.7 mm OD attached to 320 mm silicone tube

Reusable (non-sterile)

E40-916 Probe Set

E40-917 Retrieval Device

E40-918 System with retrieval device

Disposable (sterile packaged)

51-917 Retrieval Device (box of 5)

51-918 System with retrieval device (box of 1)

retrieval device is designed to grasp knob-tip of probe for ease of removal from the inferior meatus.

DCR BODKINS

20 G/0.9 mm OD x 45 mm long pobe attached to 400 mm silicone tube

E40-924 straight, reusable, 1 piece

E40-923 angled, reusable, 1 piece

51-922 straight, disposable, box of 3

51-923 angled, disposable, box of 3

QUICKERT

Lacrimal Intubation Probe malleable stainless steel, 11.0 cm, one end has 0.4 mm taper point, one end has cylindrical tip of size:

E40-839 #00/0.7 mm

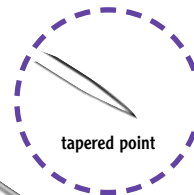
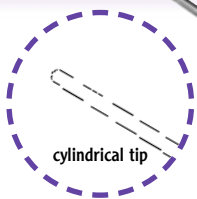
E40-840 #0/0.8 mm

E40-841 #1/0.9 mm

E40-842 #2/1.1 mm

E40-843 #3/1.3 mm

E40-844 #4/1.4 mm



Probes are made from malleable stainless steel with blunt ends. Machined to assure a smooth transition and secure bonding between probe and silicone tubing. Silicone tube swaged to probe.

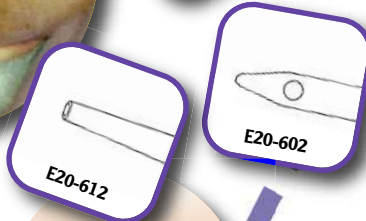
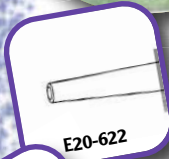
SPECIALTIES



LACRIMAL CANNULAE

Cannulas are uniquely designed for their special application; atraumatic irrigation of the punctum or lacrimal duct, for punctal dilation and irrigation of the nasolacrimal system.

SPECIALITIES



Galezowski
23G/0.6mm OD x 11mm
blunt tip with end opening
E20-600 straight
E20-601 curved

Shahinian
23G/0.6mm OD x 11 mm straight tube,
bullet-shaped tip with 0.3 mm side port
E20-602

Labarre
25G/0.5mm OD x 30 mm tube, tip
is tapered to 0.3 mm, end opening
E20-612 straight
E20-613 short angled
E20-615 long angled
E20-617 long curved
(on demand also available in sterling silver)



Anel
23G/0.6mm OD x 10 mm
reinforced tip with end opening
E20-622 straight
E20-623 curved 90°

Gauge	ID (in)	ID (mm)	OD (in)	OD (mm)
23g	.013	.33	.025	.60
25g	.010	.25	.020	.50

Reinforced
19G/1.1 mm OD x 22 mm tube,
reinforced tip of 23G/0.6 mmx10 mm
E20-630 straight
E20-631 curved



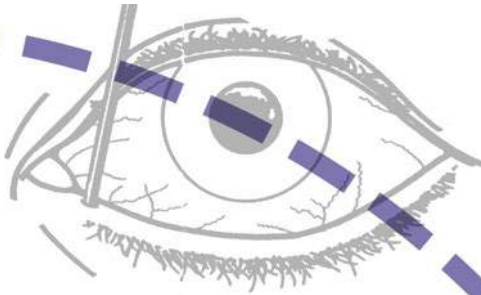
West
23G/0.6mm OD x 28 mm tube,
blunt tip with 0.3 mm diameter
E20-642 straight, side port
E20-643 curved, bottom port
E20-645 curved, front port



*ideal for smooth control
of irrigation during
lacrimal duct
surgery*



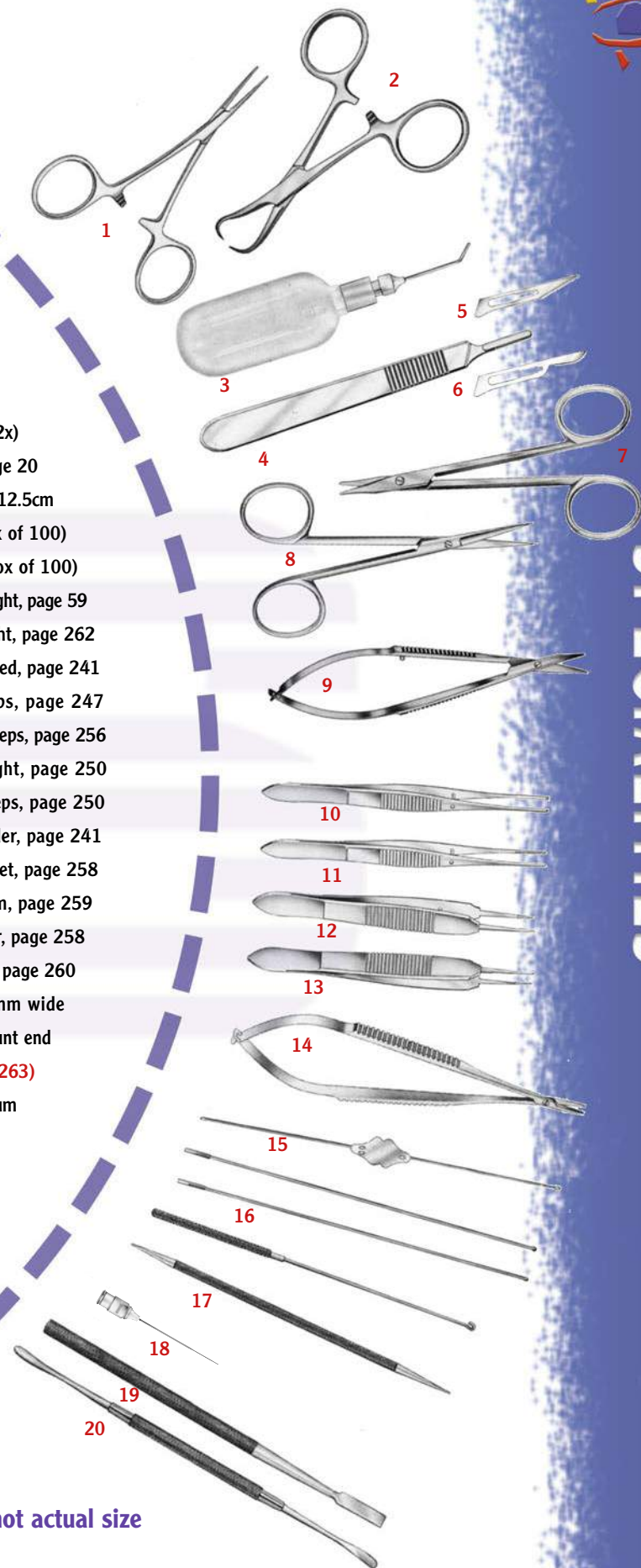
Irrigating Syringe
5 ml with Luer-Lock cone
E20-805 all glass, reusable
300-05SP plastic, disposable, sterile box of 10



E42-133 LACRIMAL SURGERY INSTRUMENT SET
(for Dacryocystorhinostomy and Intubation)

complete, consisting of 1 each or (x) instruments

- 1 E30-902 Halstead Mosquito Forceps (4x)
 - 2 E30-909 Backhaus Towel Forceps, 9.0 cm (2x)
 - 3 E20-001 Bishop-Harmon AC Irrigator, page 20
 - 4 E40-203 Scalpel Handle #3, stainless steel, 12.5cm
 - 5 E40-211 Scalpel Blade #11, sterile (box of 100)
 - 6 E40-215 Scalpel Blade #15, sterile (box of 100)
 - 7 E25-566 Stevens Tenotomy Scissors, straight, page 59
 - 8 E25-530 Universal Eye Scissors, straight, page 262
 - 9 E25-315 Westcott Stitch Scissors, curved, page 241
 - 10 E30-114 Standard Dressing Forceps, page 247
 - 11 E30-238 Bonaccolto Conjunctiva Forceps, page 256
 - 12 E30-446 Jaffe Tying Forceps, straight, page 250
 - 13 E30-451 Castroviejo Suture Forceps, page 250
 - 14 E35-131 Castroviejo Needle Holder, page 241
 - 15 E40-860 Bowman Lacrimal Probe Set, page 258
 - 16 E40-918 Crawford Intubation System, page 259
 - 17 E40-896 Castroviejo Lacrimal Dilator, page 258
 - 18 E20-630 Reinforced Lacrimal Cannula, page 260
 - 19 E40-972 West Lacrimal Sac Chisel, 6 mm wide
 - 20 E40-974 Freer Periosteal Elevator, sharp/blunt end
- + DCR instruments listed below (see page 262/263)
- E40-983 Hartmann-Halle Nasal Speculum
 - E40-812 Knapp Retractor
 - E40-823 Stevenson Retractor
 - E40-934 Gerzog Surgical Mallet
 - E40-922 Worst Pigtail Probe
 - E30-991 Beyer Bone Rongeur
 - E30-993 Kerrison Punch

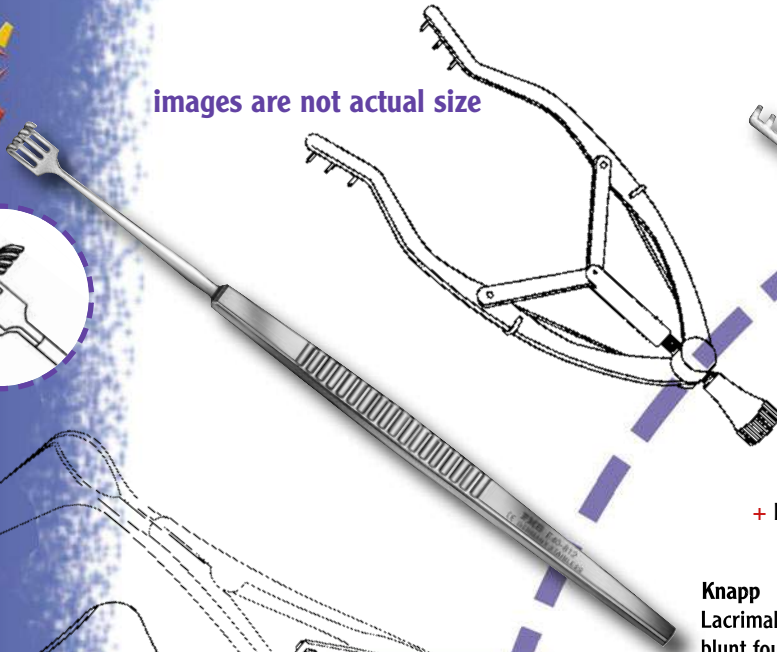


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SPECIALITIES

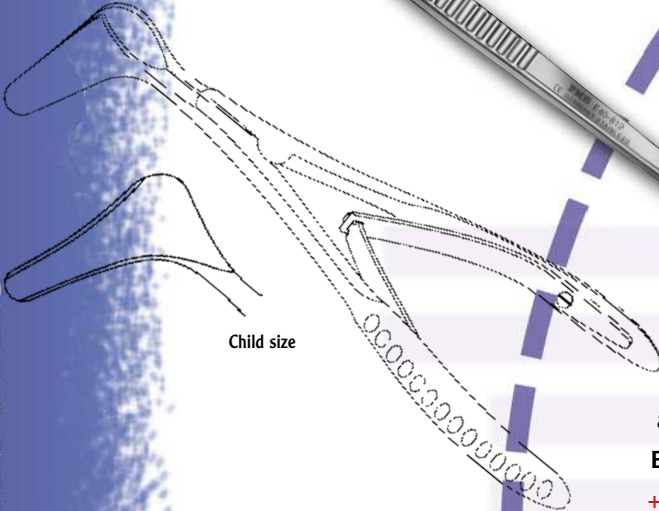


images are not actual size



Agricola
Lacrimal Sac Retractor
3x3 sharp prongs, 4.5 cm
E40-820

Stevenson
Lacrimal Sac Retractor
curved 3x3 teeth, 9.0 cm
+ E40-823



Knapp
Lacrimal Retractor
blunt four prongs, 13.5 cm
+ E40-812

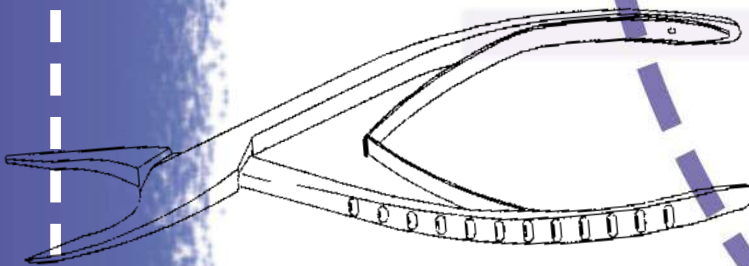
Hartmann-Halle
Nasal Speculum
aseptic joint (dismantable), 15.5 cm
E40-982 child size
+ E40-983 adult size



Worst
Lacrimal Pigtail Probe
with suture eyes, 14.0 cm
+ E40-922 adult size
E40-921 child size

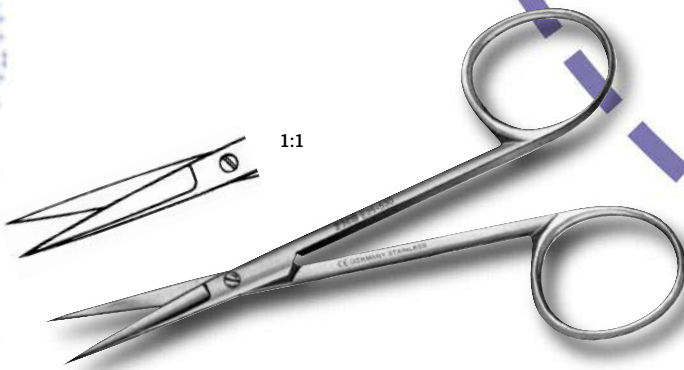


Gerzog
Surgical Mallet
lead filled stainless steel head,
30 mm dia. head, 400g, 18.0 cm
+ E40-934



Beyer
Bone Rongeur
curved 3 mm jaws, 18.0 cm
+ E30-991

Eye Scissors, Universal model, 11.5 cm
straight – blades – curved
E25-530 pointed E25-531
E25-532 sharp/blunt E25-533
E25-534 blunt E25-535



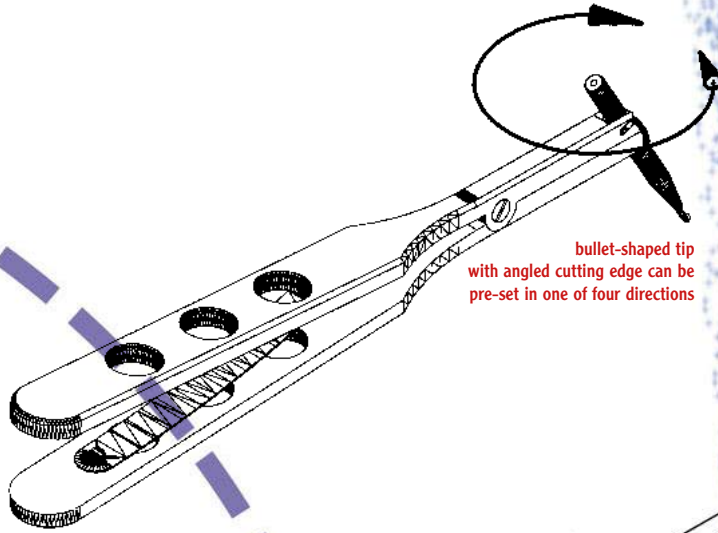
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SPECIALITIES

BONE AND TISSUE PUNCHES



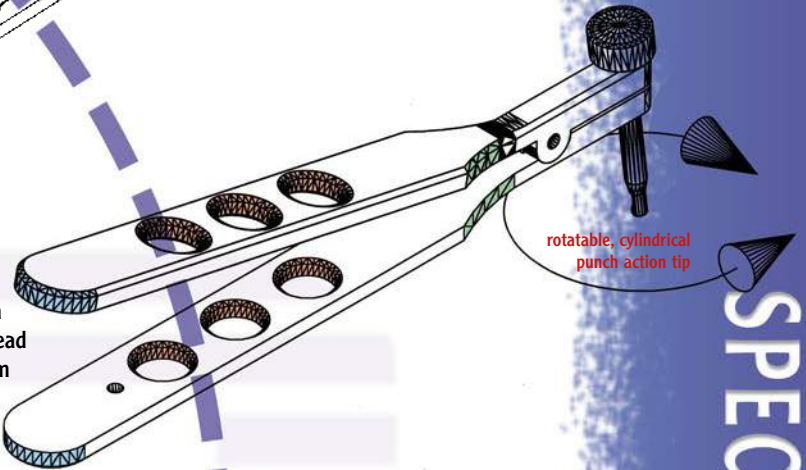
**Luntz-Dodick
Trabeculectomy Punch**
exchangeable cutting head
of 1.0 mm ϕ with 0.5 mm
deep bite, 11.5 cm
E40-995



bullet-shaped tip
with angled cutting edge can be
pre-set in one of four directions

ideal for scleral tunnel insertion

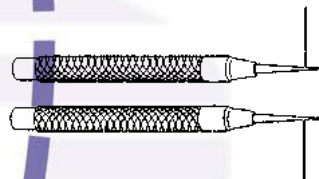
**Gass
Corneoscleral Punch**
rotatable 1.5 mm diameter head
with 0.75 mm deep bite, 9.0 cm
E40-996



rotatable, cylindrical
punch action tip

ideal for clean, cylindrical, vertical holes

**Harms
Trabeculotomy Probe**
9 mm pointed tips with 3 mm spread, 4.8 cm
E40-928 right
E40-929 left

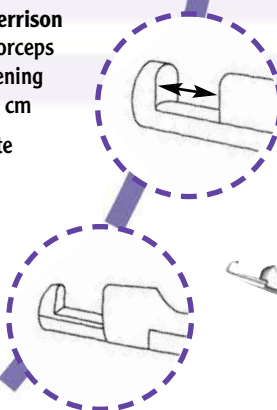


**Kerrison
Sphenoidal Punch Forceps**
up-cutting 90° jaws, 9 mm opening
length of shaft 80 mm, 21.0 cm

+ E30-993 3x3mm bite

E30-994 3x4mm bite

E30-995 4x4mm bite



**Kelly
Descemet's Membrane Punch**
1.0 mm diameter head with 0.5 mm
deep bite, 13.0 cm
E40-992

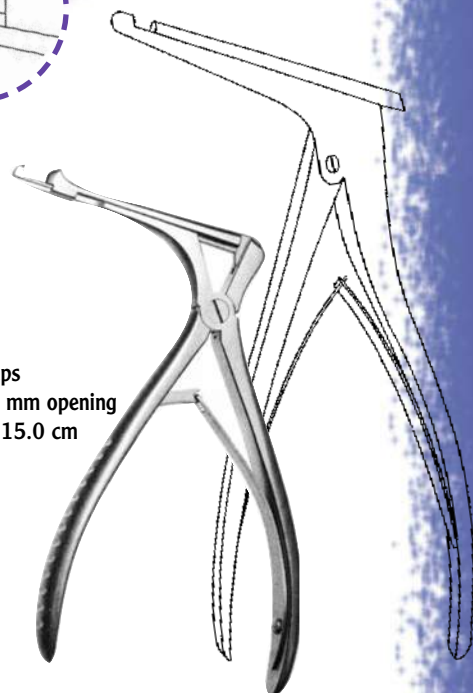
ideal for round holes
without tissue tags

**Citelli
Sphenoidal Punch Forceps**
thru-cutting 90° jaws, 7 mm opening
length of shaft 80 mm, 15.0 cm

E30-981 1.5 mm bite

E30-982 2.0 mm bite

E30-983 3.0 mm bite



SPECIALTIES



CORNEAL RUST RING REMOVERS

it's your turn



Chuck with burr

E40-424 0.5 mm dia.

E40-425 1.0 mm dia.

E40-426 chuck only



ALGERBRUSH II

Algerbrush II

Corneal Burr (Rust Ring Remover)
battery powered, complete with
two burrs of 0.5 and 1.0 mm dia.

E40-420

Replacement Burrs (tungsten-carbide)

non-sterile head dia. sterile (b/5)

E40-421 0.5 mm **BU-5S**

E40-422 1.0 mm **BU-1S**

Corneal Pencil

Eye Magnet and FB loop,
translucent, reversible handle

E40-442

Shaaf

Foreign Body & Cilia Forceps

fine grooved jaws with pointed tips, 10.5 cm

E30-290 straight

E30-291 curved

Jeweler's Forceps

E30-503 #3 straight, fine 12.0 cm

E30-504 #4 straight, extra fine 11.0 cm

***E30-505** #5 straight, ultra fine 11.0 cm

***E30-506** #5-FC angled, ultra fine 11.0 cm

***E30-507** #7 curved, fine 12.0 cm

E30-513 #3C straight, fine 10.5 cm

Foreign Body Instruments

in sliding handle, double end

E40-411 Needle & Plange Lever

E40-412 Needle & Gouge

in sliding handle, single end

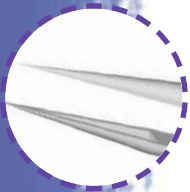
E40-413 Needle, curved sharp tip

E40-414 Gouge, straight round tip

E40-415 Plange Lever, curved tip

** on request also available
in lightweight titanium*

SPECIALITIES





Ophthalmologists should have at least one motorized drill for removing rust ring and for polishing the cornea after excising a pterygium.

Chuck with diamond burr
medium grit diamond stone

E40-434 round 3.5 mm dia.

E40-435 wheel 5.0 mm dia.

Pterygium Drill
battery powered, complete with
round 3.5 mm dia. diamond burr

+E40-433

Replacement Diamond Burrs
medium grit diamond stone

E40-436 round 3.5 mm dia.

+E40-437 wheel 5.0 mm dia.

Cook
Eye Speculum
with locking screw, solid blades

+E40-071 adult 15 mm blade

E40-072 child 11 mm blade

McReynolds
Pterygium Scissors
angled 18 mm blades, blunt tips 10.5 cm

+E25-561

E42-135 PTERYGIUM SURGERY SET

complete, consisting of 1 instrument each:

E10-003K Chuck Handle #3K, round, page 18

E10-064 Miniature Edge Blade #64, page 18

E40-111 Desmarres Lid Retractor #1, page 245

E30-233 Lester Fixation Forceps, 2x3 teeth, page 247

E30-385 Moorfield's Conjunctiva Forceps, page 257

E30-460 McPherson, Tying Forceps, page 250

E30-450 Castroviejo Suture Forceps, page 250

E35-101 Castroviejo Needle Holder, page 237

E45-015 Sterilizing Instrument Tray, page 294

+ instruments illustrated



The diamond produces a very smooth healing surface in a very short time

Bonn
Iris Scissors
delicate blades, sharp tips, 9.0 cm

+E25-500 straight

E25-501 curved

Kuhnt
Corneal Scarifier #1
hockey type blade, 12.0 cm

E40-361

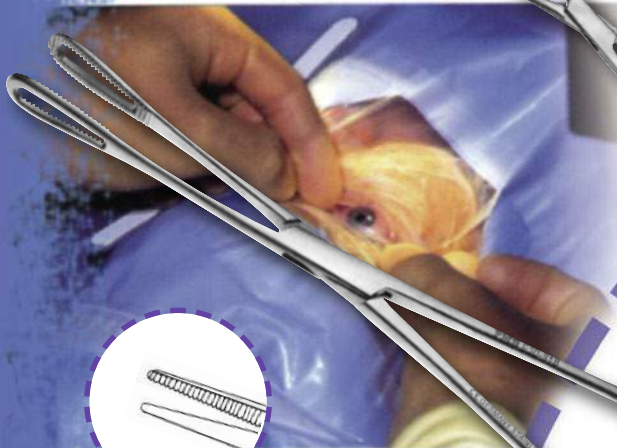
Gill
Corneal Knife
curved cutting edge,
12.0 cm

+E40-341

SPECIALTIES



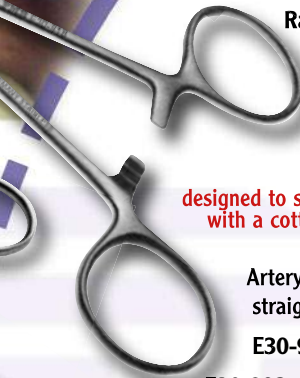
SPECIALTIES



Dieffenbach Serrefine
cross-action, straight jaws
E30-934 3.5 cm
E30-950 5.0 cm
E30-970 7.5 cm



Backhaus
Towel Forceps
curved shanks
E30-909 9.0 cm
E30-913 13.0 cm



Rampley
Sponge Holding Forceps
with ratchet, serrated ring shaped jaws
E30-918 18.0 cm
E30-925 25.0 cm

designed to scrub the skin around the eye
with a cotton ball dipped in antiseptic solution

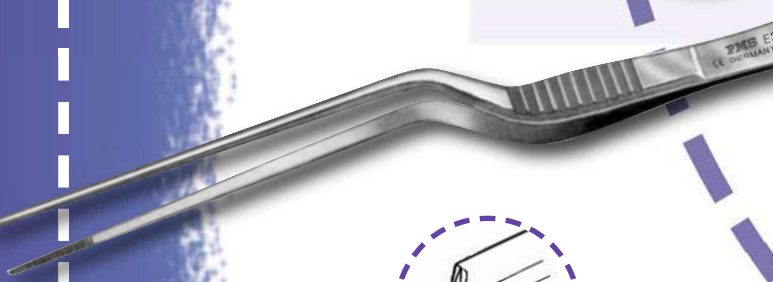


Artery Mosquito Forceps
straight shaft with serrated jaws
E30-900 Hartmann, 10.0 cm
E30-902 Halstead, 12.5 cm

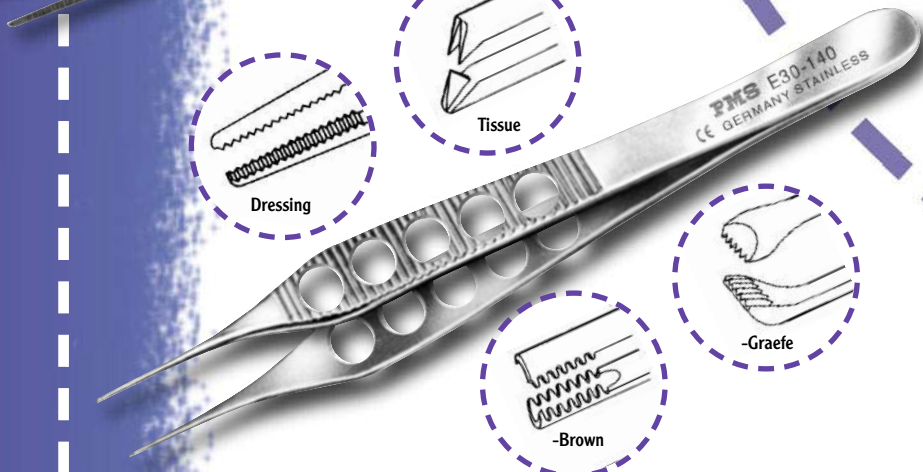


Surgical Scissors
standard, straight blades, 14.5 cm
E25-574 blunt tips
E25-576 sharp and blunt tips
E25-578 sharp tips

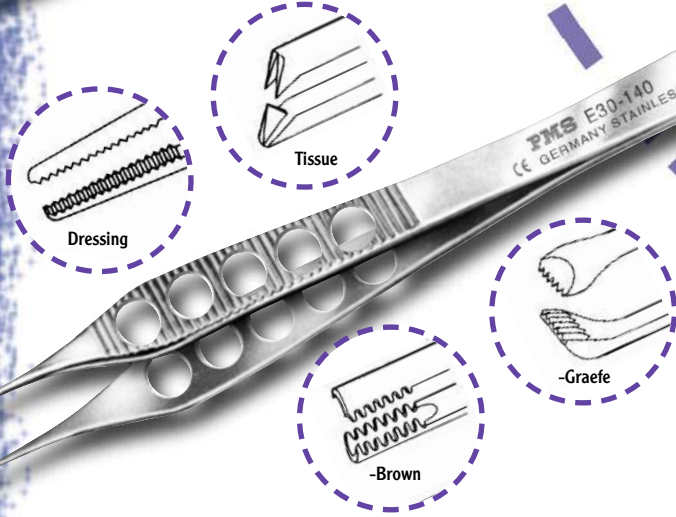
further Utility Scissors
are illustrated on page
280 and 281



Dressing Forceps
bayonet shaped, serrated jaws
E30-914 Lucae, delicate shaft, 14.5 cm
E30-916 Jansen, standard shaft, 16.0 cm



Adson Dissecting Forceps
lightweight, fenestrated handle, 12.0 cm
E30-130 micro dressing, 1.0 mm jaws
E30-132 delicate dressing, 1.2 mm jaws
E30-140 micro tissue, 1.0 mm teeth
E30-142 delicate tissue, 1.2 mm teeth
E30-146 -Graefe, 6x7 teeth
E30-147 -Brown, 7x7 teeth



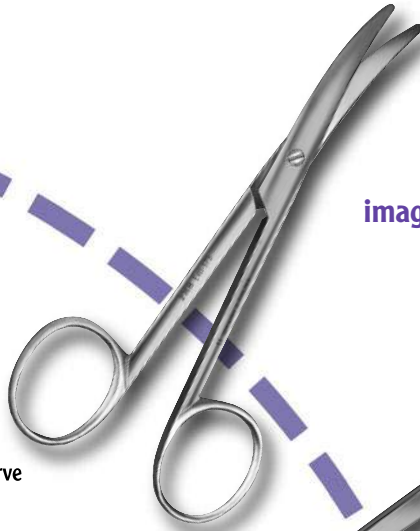
ENUCLEATION INSTRUMENTS

PMS



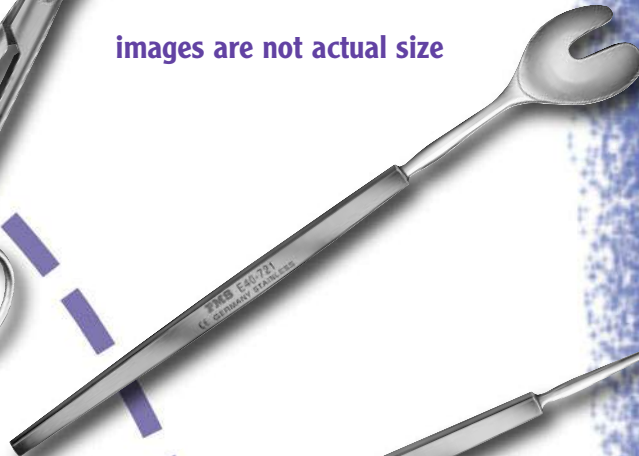
images are not actual size

Enucleation Scissors
heavy blades, blunt tips,
13.0 cm
E25-571 medium curve
+ E25-573 strong curve



**Wells
Enucleation Spoon**
21 mm wide spoon with notch, 14.5 cm

+ E40-721



**Bunge
Evisceration Spoon**
round, sharp spoon, 13.5 cm

+ E40-708 small 8 mm dia.

+ E40-712 large 12 mm dia.



**Jameson
Muscle Hook**
E40-782 small
+ E40-783 large



**Carter
Sphere Introducer and Holder**
spring loaded plunger, 12.5 cm

+ E40-730

non-sterile, autoclavable Enucleation and
Orbital Implants are available on request

**Foster
Enucleation Snare**
complete with 12 snare wires, 14.5 cm

+ E40-722

Twisted Snare Wire
package of 12, 13.5 cm

E40-723



white silicone spheres



lucite PMMA spheres

E42-136 ENUCLEATION-EVISCERATION SET
complete, consisting of 1 or (x2) instruments:
E40-078 Castroviejo Speculum, page 242
E30-902 Halstead Mosquito (x2), page 266
E25-566 Stevens Tenotomy Scissors, page 261
E30-142 Adson Delicate Tissue Forceps, page 266
E30-147 Adson-Brown Tissue Forceps, page 266
E35-103 Castroviejo Needle Holder, page 237
E45-015 Instrument Sterilizing Tray, page 294
+ instruments illustrated

SPECIALTIES



BiRO



Schiøtz Tonometer
improved model (autoclavable)
stainless steel construction, inclined scale,
set of 3 weights (5.5, 7.5 & 10 grams) and
zero test block in foam-lined metal case

S/1002/GB Specification #3

1001/GB Specification #5 (can be certified)

charge for certificate of accuracy on request

1001/15 Extra weight 15.0 g



Honan Balloon
Intraocular Pressure Reducer
with relieve valve in case

*HB02055 complete

*HB02150 bellows, reusable

*HB02210 head band, reusable

HB02400 relief valve

HB02701 headband, disposable,
latex free (box of 12)

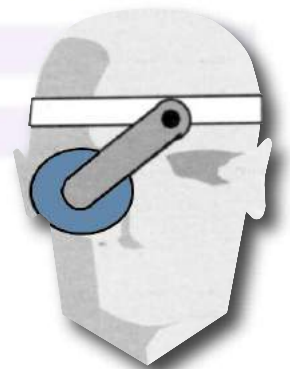
* Caution: these products are made of latex which may causes allergic reactions

Oculo Pressor
Pressure Reducer
with velcro head band

A4947 complete

A4947ARM plastic arm

A4948 spare head band



E42-138 GLAUCOMA SURGERY SET

complete, consisting of 1 each or (x) items

E30-900 Hartmann Forceps (x2), page 266

E30-909 Backhaus Forceps (x2), page 266

E40-011 Barraquer Eye Speculum, page 245

E40-107 Tanne-Lieberman Speculum, page 230

E20-001 Bishop-Harmon A/C Irrigator, page 244

E20-031 Rycroft Air Injection Cannula, page 244

E25-501 Bonn Iris Scissors, curved, page 265

E25-315 Westcott Stitch Scissors, curved, page 241

E25-334 Westcott Tenotomy Scissors, curved, page 241

E25-411 Gills-Vannas Scissors, curved 7 mm, page 241

E25-200 Barraquer Iridectomy Scissors, blunt tips, page 22

E30-241 Fechtner Conjunctiva Forceps, ring shaped, page 230

E30-081 Harms-Colibri Forceps 0.12/45° teeth, page 249

E30-106 Bishop-Harmon Tissue Forceps, 0.6 mm teeth, page 247

E30-446 Jaffe Tying Forceps, straight smooth platform page 250

E40-554 Castroviejo Eye Caliper, straight 0-20 mm scale, page 244

E10-301SR Diamond Knife for Visco Canalostomy, 20° cutting edge, page 182

E10-367 Diamond 7-step Knife, retractable, spear shaped blade, page 105

E15-214 Blumenthal Conjunctiva Dissector, smooth 2x1.4 mm biconvex tip, page 230

E40-995 Luntz-Dodick Trabeculectomy Punch, exchangeable 1.0 mm cutting head, page 263

E40-928 Harms Trabeculectomy Probe, right, 9 mm pointed tips with 3 mm spread, 4.8 cm, page 263

E40-929 Harms Trabeculectomy Probe, left, 9 mm pointed tips with 3 mm spread, 4.8 cm, page 263

E35-251 Troutman Micro Needle Holder, very delicate 9 x 0.5 mm curved jaws without lock, page 241

S/1002/GB Schiøtz Tonometer Specification #3, stainless steel construction, inclined scale, page 268

SPECIALITIES

BATTERY CAUTERIES



Battery Cautery, complete handle with one straight tip of platinum-iridium and battery

09-401 high temp 1000°C

09-402 low temp 500°C

The PMS changeable tip and battery cauteries are excellent for office, emergency room and clinical procedures.

Reusable Fine Cautery Tips made of platinum-iridium

09-501 straight tip, blue

09-502 angled tip, yellow

09-505 straight ball tip, white

guarantee precise pinpoint hemostasis and minimal tissue damage, as well as extended life cycle



POPULAR BIPOLAR FORCEPS

ideal for coagulation of small scleral bleeders, reattachment of the conjunctival flap, and sutureless closure of the conjunctiva.

McPherson Style

delicate 0.25 mm tip, 9.5 cm

81807000 straight jaws

81807010 angled jaws

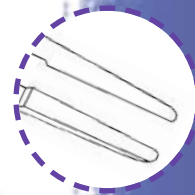


Jeweler's Style

delicate 0.25 mm tip, 11.0 cm

81811100 straight jaws

81811110 angled jaws

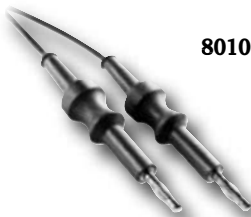


highly polished instrument tips, minimizing unwanted tissue adhesion

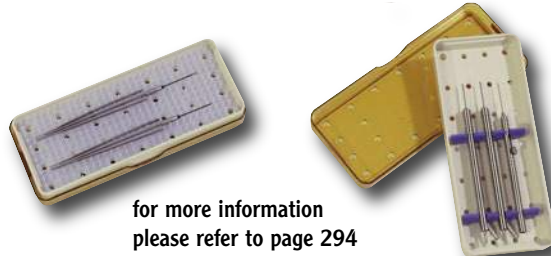


Bipolar Cord, reusable with round 2 pin forceps connector and banana jacks fitting to unit, 12"/3.0 m long

80100025



safely stores your micro instruments



for more information please refer to page 294

SPECIALTIES



SPECIALITIES

TITANIUM

BASIC

**EYE CATALOGUES
ON REQUEST**

www.pms-tuttlingen.de

**BASIC EYE INSTRUMENTS
E10-001B**

**TITANIUM EYE INSTRUMENTS
E10-001T**

CATARACT

**CATARACT INSTRUMENTS
E10-001C**

KERATOREFRACTIVE

**KERATOREFRACTIVE INSTRUMENTS
E10-001K**

**VITREORETINAL INSTRUMENTS
E10-001V**

VITREORETINAL

SPECIALITIES

**SPECIALITY INSTRUMENTS
E10-001S**

**STERILIZATION
E10-001E**

STERIL

PMS



STERILIZATION





STERILISATION

INTRODUCTION . . . 272-273

EZWASH® TRAY-IN-TRAY SYSTEM 274-277

EZWASH® DELUXE WIRE BASKETS 278-279

EZHOLD® SILICONE FINGER MATS 280

EZHOLD® SILICONE STORAGE INSERTS 281

EZLOAD® STERILISATION CONTAINERS . 282-287

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EZHOLD® INSTRUMENT CASSETTES/BOXES 290-291

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SILICONE RACKS AND NAP PLATES . . . 293

LIGHTWEIGHT PLASTIC TRAYS 294

CARE & MAINTENANCE PRODUCTS 295





PROTECTS WELL YOUR VALUABLE INSTRUMENTS

The right tools for the ophthalmic surgeon are hand crafted microsurgical instruments of the best quality. The skill of highly trained craftsmen, and the time devoted to every detail in

- design
- material
- manufacturing
- progress control
- final inspection

is directly reflected in the quality of the instrument and its price.

QUALITY HAS ITS PRICE

The purchase of high quality surgical instruments represents a significant investment for the surgeon or hospital.

By using intelligent storage systems, optimally tailored for cleaning and sterilisation, maximal protection can be assured, especially for delicate surgical instruments.

PMS EZWash® Tray-in-Tray and EZLoad® Sterilisation Systems - designed for fine ophthalmic instruments - are ideal to help protect your investment over many years through proper care and maintenance.

AND ALWAYS REMEMBER:

DELICATE INSTRUMENTS NEED DEDICATED HANDLING





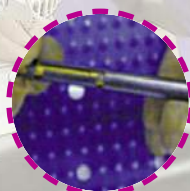
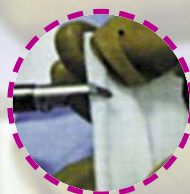
Everything you need to know about the proper care and maintenance of microsurgical instruments please contact

www.A-K-I.org

Here you will find much information regarding the following:

- CLEANING
- DISINFECTION
- DRYING
- LUBRICATION
- INSPECTION
- STERILISATION
- STORAGE
- IN-HOUSE TRANSPORTATION

A frequent cause of mechanical damage is improper collection of instruments from the surgical field. Heavy and delicate instruments are thrown into a collection container without consideration. Transportation under such conditions gives rise to vibrations, thus making the instruments come into contact with each other which may cause mechanical damage.





NEW from
PMS



The PMS *EZWash*® Tray-In-Tray System is a versatile system for organising and protecting delicate surgical instruments during cleaning, disinfection, sterilisation, transport and storage.

EZWash® Trays are available in 1/1, 1/2 and 1/3 sizes, and can be used alone or can be stacked in several different combinations, allowing you to organise individual instruments into practical sets and protective layers.

The PMS *EZWash*® Tray System is an economical solution. The trays are designed to keep your instruments securely protected, reducing the possibility of damage and high costs of instrument repair or replacement.

FEATURES:

- Wire mesh to allow high degree of liquid penetration on to the instrument surfaces.
- Electrolytically polished 18/8 stainless steel construction inhibits rust and staining of the tray, and guarantees strength and durability.
- Total internal customisation. Hand tailored accommodation for your instrument sets that results in zero instrument movement.
- Trays can be reconfigured to accept alternative instruments.

Efficiencies in the operating room are realised because instruments arrive at their point of use in a consistent arrangement that is universal to all services.

In addition, sterilisation and processing time is reduced as general principles of set preparation are integrated into the total system needs of your facility.



PMS EZWash® TRAY-IN-TRAY SYSTEM



Sized to fit into most filtered container system; can also be folded and wrapped in either reusable "woven" drapes and/or disposable CSR wraps.

EZWash® Instrument Baskets

1/1 size (275x178x24 or 37 mm),
complete with removable top cover

E45-102 "LoProfile" 24 mm height,
with two silicone instrument supports

E45-103 "HiProfile" 37 mm height,
with two teflon instrument holding bars



EZHold®

Instrument Holding Bar
16-slots Teflon profile, 260 mm long,
complete with set of screws and plates

E45-104

easy to break due to
pre-determined breaking points



In order to adapt the **EZWash®** Tray-in-Tray System to your individual need the Instrument Holding Bar is complete with pre-determined breaking points. This enables you to divide the 1/1 size holding bar into 2 bars with the length of 1/2 size or 1/3 and 2/3 sizes depending on the application.

EZHold®

Replacement Screw and Plate Set
for Teflon holding bar E45-104

E45-105



EZHold®

Teflon Holding Post
complete, with washer
and fixation screw

E45-106

holding post can be attached anywhere
in the base tray to stack **EZWash®**
baskets at varying heights.



STERILISING EQUIPMENT



PMS EZWash® TRAY-IN-TRAY SYSTEM

Created to meet both the growing demand toward standardisation of instruments sets and your individualised surgical needs.

STERILISING EQUIPMENT

EZWash® Tray
"LoProfile" 24 mm sidewalls
1/1 size (275x178x24 mm),
for 16 hand instruments

interchangeable fixation bar with silicone squeeze ledge

fine grid sidewalls protect both personnel and instruments

latch slots on both ends allow simple placement of fixation bar

silicone instrument supports to protect and hold each instrument

open mesh stainless steel construction allows thorough cleaning, sterilising and drying

1/1
for 16 hand instruments

1/2
for 8 hand instruments

1/3
for 5 hand instruments

E45-128
1/3 size silicone finger mat to fit E45-113

Trays
"LoProfile" sidewalls, 24 mm height, complete with 2 silicone instrument supports and 1 instrument fixation bar

E45-111 1/1 size 275 x 178 x 24 mm
E45-112 1/2 size 178 x 140 x 24 mm
E45-113 1/3 size 178 x 90 x 24 mm

designed to facilitate the reprocessing (cleaning, disinfection and sterilisation) of instruments.
We recommend for sterilisation the PMS EZLoad® standard containers illustrated on page 282.

The following instrument holding devices fit into the trays to secure each microsurgical instrument, assure complete cleaning & sterilisation of the instruments and facilitate ease of use of the instruments in the operating room.

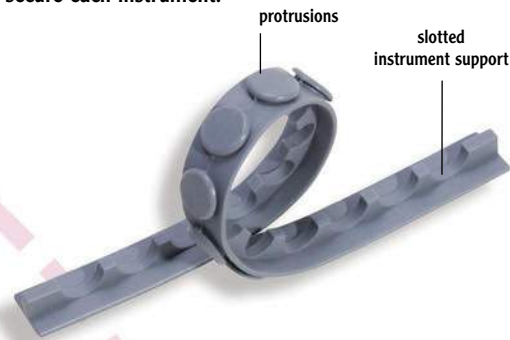
External dimension (mm)	Tray sizes	with silicone support	with silicone finger mat	with silicone nap plate	holding capacity
275 x 178 x 24	1/1	E45-111	*E45-121	*E45-131	16 + items
178 x 140 x 24	1/2	E45-112	*E45-122	*E45-132	8 +
178 x 90 x 24	1/3	E45-113	*E45-123	*E45-133	5 +

PMS standard 1/1 size and 1/2 size trays can be lidded and can also be stacked with 4 sets of Teflon post (E45-106) and placed in a filtered container system with varying heights.

* See page 277 and 293



Instrument holding devices and silicone finger mats are ideally suited to secure each instrument.



Silicone Instrument Support
265 mm long rubber strip with
16-slots to fit 1/1 size tray

E45-115

can be cut to fit 1/2 or 1/3 size trays; raised protrusions on the underside fit in all bases and are easy to install; to reposition simply grasp and pull



Instrument Fixation Bars
with silicone "squeeze ledge"

E45-116 for 1/1 size tray

E45-117 for 1/2 size tray

E45-118 for 1/3 size tray

interchangeable instrument fixation bars for horizontal and/or vertical placement

Silicone "squeeze ledge"
600 mm, can be cut to size

E45-119

extra soft material to prevent damage to the instrument surface and its function

Silicone Finger Mats
extra soft, light blue material
with narrow spaced fine nubbins

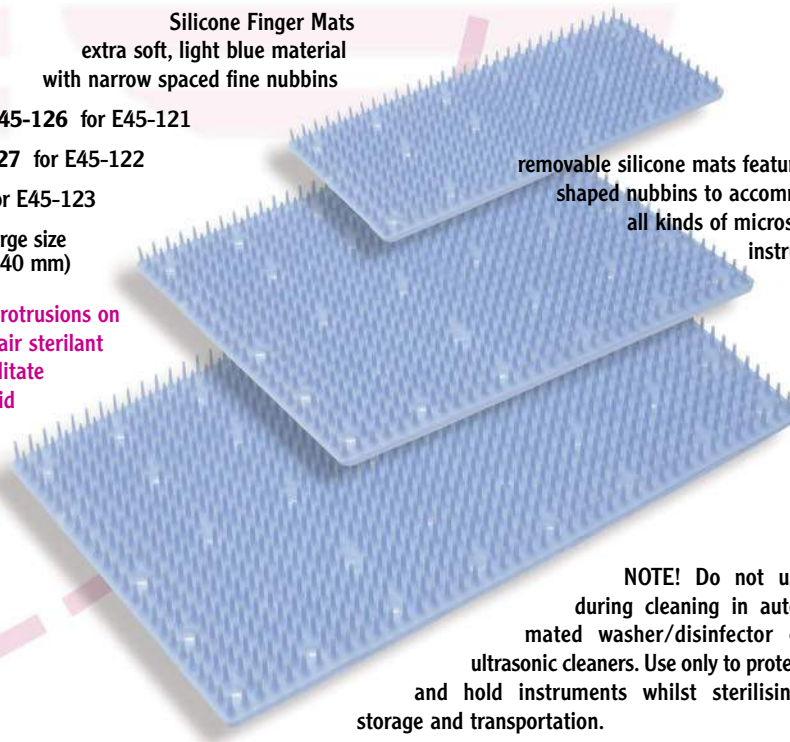
E45-126 for E45-121

E45-127 for E45-122

E45-128 for E45-123

E45-129 extra large size
(520 mm x 240 mm)

with venting holes, raised protrusions on the underside to enhance air sterilant penetration and to facilitate rapid drainage of fluid



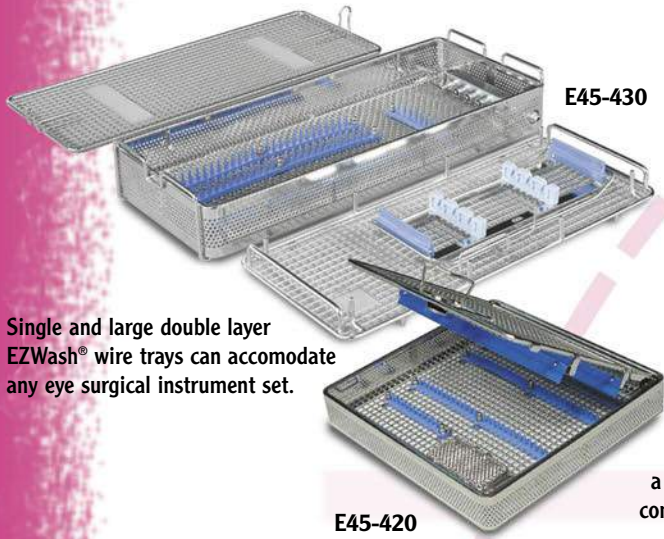
removable silicone mats feature cone shaped nubbins to accommodate all kinds of microsurgical instruments

NOTE! Do not use during cleaning in automated washer/disinfector or ultrasonic cleaners. Use only to protect and hold instruments whilst sterilising, storage and transportation.



EZWash® STAINLESS STEEL WIRE BASKETS

New reprocessing procedures require new instrument trays. The PMS EZWash® Wire Baskets enable microsurgical instruments to be washed and sterilised using modern automated methods.



Single and large double layer EZWash® wire trays can accommodate any eye surgical instrument set.

E45-430

EZWash®
Deluxe Wire Basket (double level)
363 x 146 x 60 mm, complete with
E45-434, E45-435, E45-437,
E45-441 and E45-442

E45-430

EZWash®
Deluxe Wire Basket (single level)
245 x 245 x 60 mm, complete with
a set of silicone finger strips and
compartment for cannulae, needles, etc.

E45-420

E45-420

STERILISING EQUIPMENT

FEATURES

TOTAL INTERNAL CUSTOMISATION

Hand tailored accommodation for your instrument sets that results in zero instrument movement.



PERFORATED SHEET METAL WALLS

Fine grid sidewalls protect both personnel and instruments.



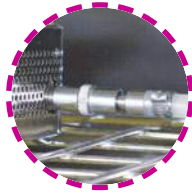
COARSE BASE MESH / LID

Allow high degree of liquid penetration onto the instrument surfaces, and facilitate rapid drying.



RAPID CLEANING AND STERILISATION

- Quick connection to washing machine.
- No manual cleaning required.



EZWash® INSERT TRAYS AND ACCESSORIES

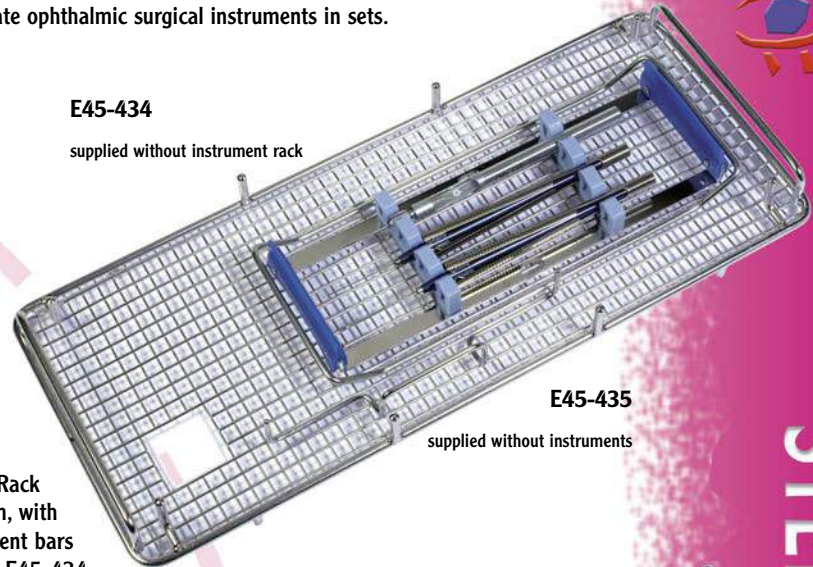
PMO



Safe, protective individual storage inserts are ideal for systematic organisation of delicate ophthalmic surgical instruments in sets.

EZWash® Insert Wire Tray
320 x 135 x 30 mm, with
stationary posts and frame
to be used with E45-430

E45-434
stationary posts for clearance of instruments



E45-434
supplied without instrument rack

E45-435
supplied without instruments

EZWash® Insert Instrument Rack
190 x 60 x 22 mm, with
3-slots instrument bars
to be used with E45-434

E45-435
securely holds 3 instruments of 100 to 160 mm length

EZWash® Insert Cannula Holder
120 x 15 x 30 mm removable bar, complete with
4xmale LL / 1xfemale LL hub, tubing connector,
L-bracket with set of screws and simple quick
connection to washing machine

E45-437
cannula bar can be elevated 90° for convenient placement
or removal of individual cannulae and I/A handpieces



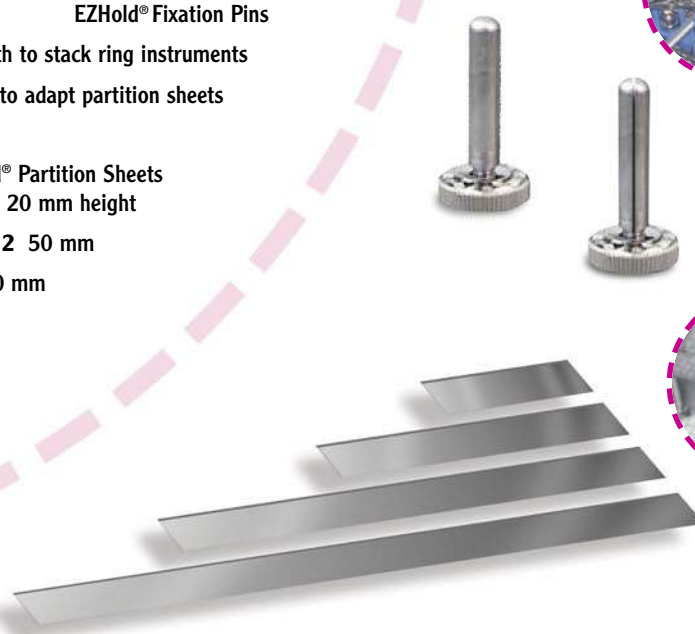
EZHold® Silicone Finger Strips
extra soft material with fine nubbins,
complete with set of screws as shown above

E45-441 95 mm
E45-442 215 mm
ideal for protective storage of instruments



EZHold® Fixation Pins
E45-410 smooth to stack ring instruments
E45-411 slotted to adapt partition sheets

EZHold® Partition Sheets
stainless steel, 20 mm height
E45-412 50 mm
E45-413 130 mm
E45-414 225 mm
E45-415 460 mm

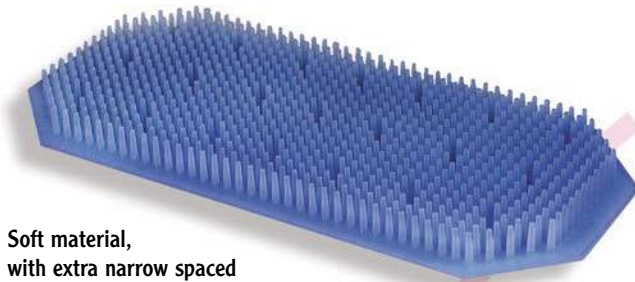


STERILISING EQUIPMENT



EZHold® SILICONE FINGER MATS

Four finger configurations allow utilisation of the silicone finger mats with a variety of surgical instruments.



Soft material, with extra narrow spaced nubbins for delicate instruments

E45-271
Silicone Finger Mats
pre-cut, 270 x 125 mm
for minicontainers see page 285

E45-274
pre-cut, 245 x 245 mm
for flat containers see page 287

***E45-279**
large sheet, 520 x 230 mm
can be cut to size

Semi-soft material with wide spaced, coarse pins for standard eye surgical instruments



E45-136
Silicone Nap Plates
265 x 170 mm for E45-131

E45-137
170 x 140 mm for E45-132

E45-138
170 x 90 mm for E45-133

***E45-139**
large sheet, 600 x 300 mm

*large sheet may be cut with scissors to suit instruments of unusual shape for best protection

E45-259
large sheet 520 x 230 mm
coarse grid with semi-soft pins

Smith US Army
Utility Scissors
with sharp/blunt tip
E25-816 16.0 cm
E25-818 18.0 cm
E25-820 20.0 cm
ideal to cut large sheets

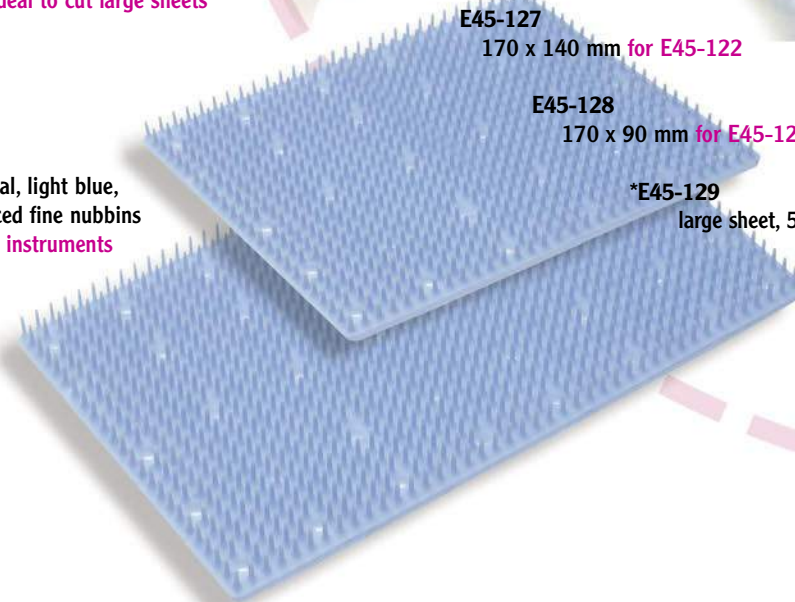
E45-126
Silicone Finger Mats
265 x 170 mm for E45-121

E45-127
170 x 140 mm for E45-122

E45-128
170 x 90 mm for E45-123

Extra soft material, light blue, with narrow spaced fine nubbins for microsurgical instruments

***E45-129**
large sheet, 520 x 240 mm



EZHold® SILICONE STORAGE INSERTS

PMO



These components are made of advanced, lightweight, durable R-Mer® and hold all types of delicate surgical instruments.



Instrument Holding Bars

E45-520 2.9"/73 mm

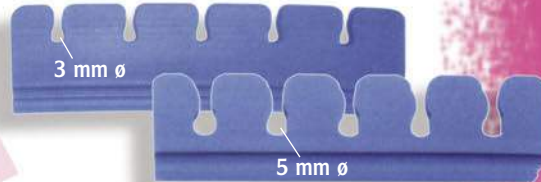
E45-521 7.0"/178 mm

The instrument holding bar can be attached anywhere in the tray with screws; silicone instrument holders are inserted into the instrument holding bars.

Silicone Instrument Holders 3 mm ø

E45-535 5 slots, 2.8"

E45-536 12 slots, 7.0"



Silicone Instrument Holders 5 mm ø

E45-555 5 slots, 2.8"/70 mm

E45-556 12 slots, 7.0"/178 mm

Plastic Holding Post 1.4"/3.5 mm

E45-524

L-Bracket
E45-522

Movable Posts

E45-525 short 1.2"/3.0 mm

E45-526 long 2.0"/5.0 mm

T-Bracket
E45-523

Universal Bandage Scissors blunt blades, angled to side

E25-715+ colour, 15.0 cm

E25-718+ colour, 18.0 cm

- +Y
- +R
- +A
- +G
- +B

Metal Screw
for E45-522 to E45-524
brackets and posts
E45-512

Utility Scissors straight, blunt blades, 14.5 cm

E25-714

A NURSE'S BEST FRIENDS

STERILISING EQUIPMENT



EZLoad® STANDARD STERILISATION CONTAINERS

Stackable, space-saving storage. Choose from 3 standard bottom heights (40, 65 & 80 mm); designed to accommodate a wide variety of instrument sets (mix and match height to optimise tray storage capacity).

STERILISING EQUIPMENT



bottom and lid with fast clip system for simple exchange of filters



New

LOCKING SYSTEM

EZLock® quick-release with positive action spring mechanism on the lid.

Lids
(310 mm x 190 mm)
anodised, lightweight aluminium,
perforated with multiple round holes

E45-310+ colour

- +S
- +Y
- +R
- +A
- +G
- +B

Bottoms
silver coloured, available
perforated or unperforated,
see E45-312/4 thru E45-313/8



Sterilisation Containers
with perforated or unperforated bottom,
see E45-314+ thru E45-328+

when ordering please add
colour to article number

- +S
- +Y
- +R
- +A
- +G
- +B

Only the lid of the container is available in different colours.

The following PMS EZLoad® sterilisation containers are specially designed to accommodate 1/1, 1/2 & 1/3 EZWash® Trays assuring complete sterilisation, as well as safe in-house transportation and storage.

External dimension (mm)	Removable lids, perforated	Bottoms, silver coloured perforated - unperforated		Container, complete with perforated - bottom - unperforated	
310 x 190	E45-310+ colour				
310 x 190 x 40		E45-312/4	E45-313/4	E45-314+	E45-324+
310 x 190 x 65		E45-312/6	E45-313/6	E45-316+	E45-326+
310 x 190 x 80		E45-312/8	E45-313/8	E45-318+	E45-328+



For easy identification, safe sterilisation, precise controlling and protective sealing of reusable, filtered sterilisation containers.

Identification Plates
ALUMINIUM (50 x 18 mm)
available in following colours:

- E45-330Silver
- E45-330Yellow
- E45-330Red
- E45-330Azure
- E45-330Green
- E45-330Violet
- E45-330Orange
- E45-330Brown



can be engraved to your specification; max. 16 letters

Drape Fixation Clamps
stainless steel (set of 4)

E45-334



to hold drape; slip on to the sides

Drape Retainer
flexible, tension frame
(310 x 190 mm)

E45-335

to hold woven drapes in place

Classic Woven Drapes
reusable, green colour

*E45-336 600 x 400 mm

*E45-337 650 x 650 mm

*E45-338 850 x 850 mm

act as protective packaging
for instrument racks and trays.

* also available in blue colour,
please add "B" to end of cat. no.

Paper Filters
with chemical indicator,
disposable (pack of 100)

E45-331
for single use

Textile Filters
reusable (set of 2)

E45-332
for frequent use

PTFE Teflon Filters
long-life (set of 2)

E45-333
for permanent use



single use



frequent use
≈ 40 cycles



permanent use
≈ 1200 cycles

filters are suitable for all steam sterilisation methods



Paper Label/Indicator
disposable (pack of 100)

E45-351
for controlling validity of packaging



Plastic Safety Seals
disposable (pack of 100)

E45-361

ensures that the protective packaging
can not be opened and closed again -
to rule out any form of manipulation.

STERILISING EQUIPMENT



EZLoad® MINI STERILISATION CONTAINERS

You can store a maximum in a minimum of space.

STERILISING EQUIPMENT



Mini sterilisation containers for one or two insert trays

Lids
(300 mm x 140 mm)
anodised, lightweight aluminium,
perforated with multiple round holes

E45-300+ colour

- +S
- +Y
- +R
- +A
- +G
- +B

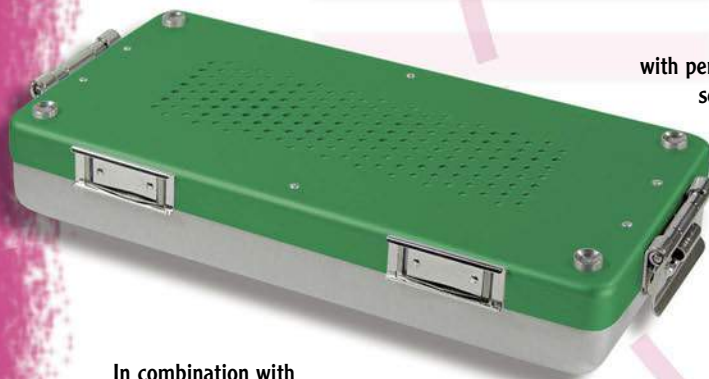


Bottoms
(40 mm and 70 mm heights),
available perforated or unperforated,
see below E45-304 to E45-307



Cleaning Agent for anodised aluminium
E45-330 300g

Containers have uniquely raised buttons on the lid for secure stacking and offer facility for
- easy filter exchange
- sterilisation safety seals
- interchangeable identification plates



Mini Containers
with perforated or unperforated bottom,
see below E45-304+ to E45-307+

- +S
- +Y
- +R
- +A
- +G
- +B

In combination with our stainless steel basket trays the best way to store, protect and sterilise an entire set of 15-30 ophthalmic instruments.

PMS EZLoad® Mini Containers with insert wire trays are ideal for sterilisation, safe transportation and organised storage.

External dimension (mm)	Removable lids, perforated	Bottoms, silver coloured perforated - unperforated	Container, complete with perforated - bottom - unperforated
300 x 140	E45-300+ colour		
300 x 140 x 40		E45-304	E45-304+
300 x 140 x 70		E45-306 E45-307	E45-306+ E45-307+



Securely protects your instruments.

Insert Screen Tray
perforated metal sheet
268 x 124 x 22 mm

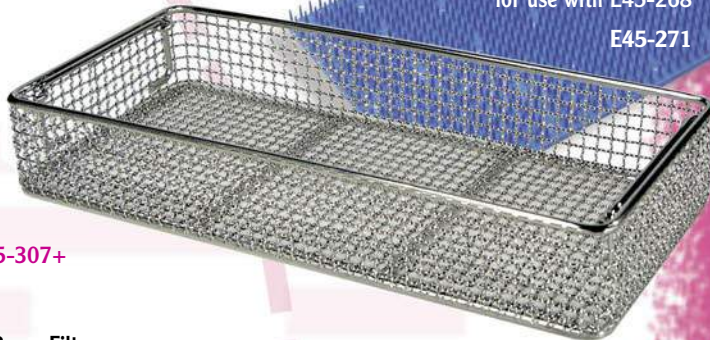
E45-268
for use with **E45-304+**



A variety of posts, instrument holding devices and silicone finger mats fit into the insert basket to secure each instrument (illustrated on page 279-281)

Silicone Finger Mats
pre-cut (260 x 120 mm)
for use with **E45-268**

E45-271



Insert Wire Tray
stainless steel wire mesh,
265 x 120 x 45 mm

E45-265
for use with **E45-306+** and **E45-307+**

Paper Filters
with chemical indicator
disposable (pack of 100)

E45-331
for single use



Textile Filters
reusable (set of 2)

E45-332
for frequent use



PTFE Teflon Filters
long-life (set of 2)

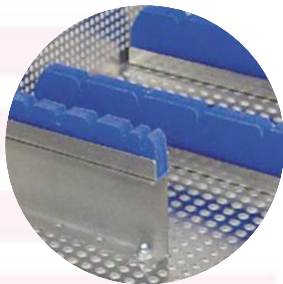
E45-333
for permanent use



single use

frequent use
≈ 40 cycles

permanent use
≈ 1200 cycles



Silicone Holding Bars for E45-265 and E45-268 can be adapted to your specific requirements

Drape Retainer
flexible, tension frame
(280 x 125 mm)

E45-328
to hold woven drapes in place



Classic Woven Drape
reusable, 600 x 400 mm
E45-336B

Identification Plates
see page 283



STERILISING EQUIPMENT



EZLoad® FLAT STERILISATION CONTAINERS

Up-graded and improved sterilisation containers offer:

- Proven lightweight aluminium, anodised in different colours
- Silicone seals all around for total tightness and sterility.
- Quick-release pressure mechanism for easy filter exchange.
- Perfect arranged perforation for excellent drying properties.

STERILISING EQUIPMENT



Lid perforated

Lid
(285 mm x 280 mm)

E45-285+ colour

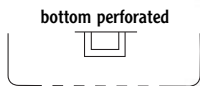
- +S
- +Y
- +R
- +A
- +G
- +B



bottom perforated

Bottoms
(285 x 280 mm x height) silver coloured
see below, E45-286 to E45-289

Choose from 2 standard bottom heights (55 mm and 85 mm); designed to accommodate a wide variety of instrument sets, you can mix and match height to optimise tray storage capacity.

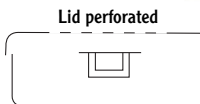


Flat Containers
with perforated or unperforated bottom,
see below, E45-286+ to E45-289+ colour



- +S
- +Y
- +R
- +A
- +G
- +B

please note that only the lid is coloured



Lid perforated

bottom perforated

With the PMS EZLoad® containers can you well sterilise, rational store, and comfortably transport without contamination.

External dimension (mm)	Removable lids, perforated	Bottoms, silver coloured perforated - unperforated	Container, complete with perforated - bottom - unperforated
285 x 280	E45-285+		
285 x 280 x 55		E45-286	E45-286+
285 x 280 x 85		E45-288 E45-289	E45-288+ E45-289+

EZLoad® FLAT CONTAINER ACCESSORIES

PMO



A variety of posts, instrument holding devices and silicone finger mats fit into the insert basket to secure each instrument, see page 279/281.

Insert Wire Mesh Basket
stainless steel construction,
crimp square hole wire mesh

E45-253 255 x 245 x 30 mm
to fit with E45-286+

E45-255 255 x 245 x 50 mm
to fit with E45-288+ and -289+

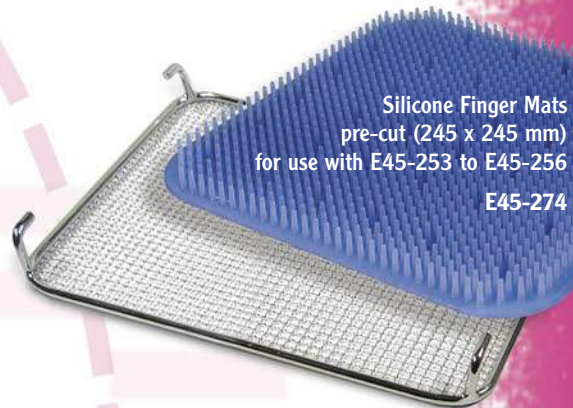


crimp square
hole wire mesh for
extra strength and durability

Insert Wire Mesh Base
255 x 245 x 30 mm
with special feet

E45-256

to fit with flat containers, special feet
provide enough space for instruments



Silicone Finger Mats
pre-cut (245 x 245 mm)
for use with E45-253 to E45-256
E45-274

Paper Filters
with chemical indicator
disposable (pack of 100)

E45-281
for single use

Textile Filters
reusable (set of 2)

E45-282
for frequent use

PTFE Teflon Filters
long-life (set of 2)

E45-283
for permanent use



The filter retainer is locked by pressing down
in center of the filter. The opening of the filter
retainer succeeds by pressing the plate.

Filter Retainer
185 mm dia.
E45-284

Drape Retainer
flexible, tension frame
(255 x 255 mm)

E45-325
to hold woven
drapes in place



Classic Woven Drape
reusable, 900 x 600 mm
E45-339B

The use of reusable wovens can
not guarantee total protection
of the sterile barrier.

STERILISING EQUIPMENT



STERILISING EQUIPMENT



Reprocessing (cleaning, disinfection, sterilisation) of eye surgical instruments is a critical issue and demands highest requirements in the design of washer/disinfector, sterilisation containers, and associated equipment.

The PMS EZWash Tray-In-Tray System and EZLoad Sterilisation Containers have been used in nearly all modern sterilisation methods with excellent results. They are in conformity with valid quality international standards and master nearly each challenge regarding

- Safety in reprocessing
- Flexibility in preparation
- Systematic organisation
- Functional in packaging
- Simple in operation
- Economical in maintenance

High quality 18/8 stainless steel material and proven anodized aluminium used for the manufacture of our reusable instrument trays, baskets and sterilisation containers will withstand repeated and long-term use, even under difficult conditions.

Precise controlling, functional filling, safety closing and sealing of our reusable containers, and the folding and wrapping of sterilisation drapes, ensure that STERILITY of the instruments is maintained until the point of use as well as aseptic presentation.

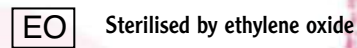
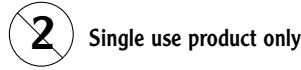
Therefore, PMS EZWash Trays and EZLoad Sterilisation Containers are the ideal tandem for perfect reprocessing with regard to optimal cleaning, complete sterilisation, validation of packaging and ease of use of the instruments in the operating room.

AND ALWAYS REMEMBER:

**DELICATE INSTRUMENTS
NEED DELICATE
HANDLING**



IMPORTANT SYMBOLS AND SUITABILITY



Non-closed packaging is designated as “preformed sterile barrier systems”, e.g. open pouches and containers.
(Forum 2007 - Medical Devices and Processes)

All PMS EZLoad® sterilisation containers are fitted with paper, textile or long-life Teflon filters; cover and bottom are perforated for steam procedures as indicated below.

Explanation of symbols :
+ applicable
- not applicable
0 limited application

Suitability of our sterile containers for steam sterilization procedures¹⁾ as per DIN 58953, part 9 (issue May 1987)

Sterilization container	Packing		Steam sterilization procedure acc. to DIN 58946, part I				
	Description	Symbolic representation and packing system	Gravitation procedure	Pre-vacuum procedure	Fractional vacuum procedure	Fractional flow procedure	Steam injection procedure
with filters	Instruments in wire basket acc. to DIN 58952 part III, in sterilization container with filter in lid and bottom acc. to DIN 58952 part I		+	+	+	+	+
	Instruments in wire basket acc. to DIN 58952 part III, in sterilization container with filter in lid and bottom not perforated acc. to DIN 58952 part I		-	+	+	+	+
	Instruments in wire basket acc. to DIN 58952 part III, in sterilization container with filter in bottom acc. to DIN 58952 part I		0	+	+	+	+

1) In order to avoid mistakes with regards to service, operation and/or when loading the sterilizer, please refer to table 1 for correct or wrong combination of sterilization containers for standardized steam sterilization procedures.
2) Only sterilization containers guaranteeing evaporation or discharge of condensate are suitable above.
3) Gravitation procedures having no drying device do not guarantee a sufficient after - drying effect.

STERILISING EQUIPMENT



EZHold® STAINLESS STEEL INSTRUMENT CASSETTES

Compact design guarantees strength and durability.
Electro polished 18/8 stainless steel material
inhibits rust and staining of the tray.



Holding Bars

EZHold®
Instrument Holding Racks
frame 180 mm long x 27 mm height

E45-180+ 3 instruments , 64 mm wide

E45-180+ 5 instruments, 95 mm wide

E45-180+ 10 instruments, 136 mm wide

EZHold®
Instrument Fixation Bars
with silicone “squeeze ledge” for holding racks,
available in 60, 90, 130 mm length

E45-181+ length

EZHold®
Instrument Holding Bars
slotted silicone strip for holding racks,
available for 3, 5 and 10 instruments

E45-182+ number of instruments



clip design closure

EZHold®
Standard Instrument Cassettes
hinged top cover with clip design closure

*E45-205 5 instruments (180 x 60 x 25 mm)

*E45-210 10 instruments (180 x 140 x 25 mm)

KEY BENEFITS

- unique hinge design with clip closure or twist lock
- slotted silicone bar can accommodate instruments with diameters ranging from 2.5 mm to 10 mm
- economical, durable and functional
- on-hand availability



twist lock

EZHold®
Premium Instrument Cassettes
hinged top cover with twist lock

*E45-208 for 8 instruments
(185 x 140 x 35 mm)

*E45-216 for 16 instruments
(280 x 180 x 35 mm)

* also available with silicone finger mats, please add “M” to catalogue no.

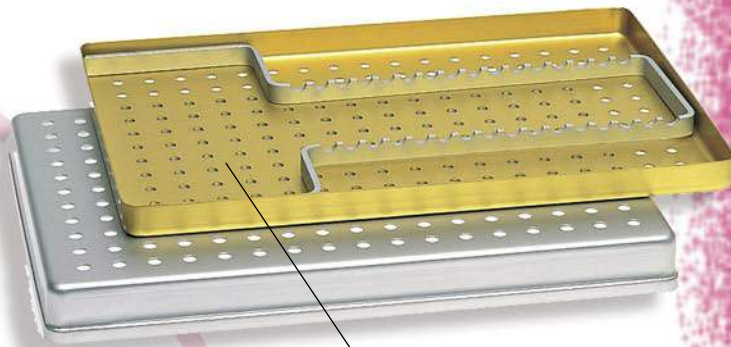


EZHold®
Instrument Sterilising Box
anodised aluminium, 280x180x19 mm,
perforated lid and bottom, complete with
instrument holder for 16 instruments

E45-226+ colour

- +Silver
- +Yellow
- +Red
- +Azur
- +Green
- +Turquoise

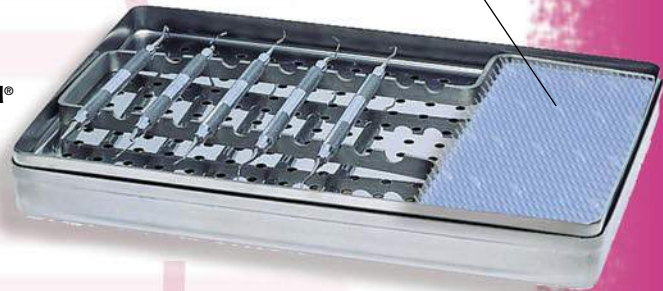
please note that only the bottom is coloured



Storage space for bipolar cords, I/A accessories, etc.
accommodates also silicone finger mats and silicone
nap plates for best protection of instruments

EZHold®
Instrument Sterilising Box
18/8 stainless steel, 280 x 180 x 19 mm,
perforated lid and bottom, complete with
instrument holder for 11 instruments

E45-221



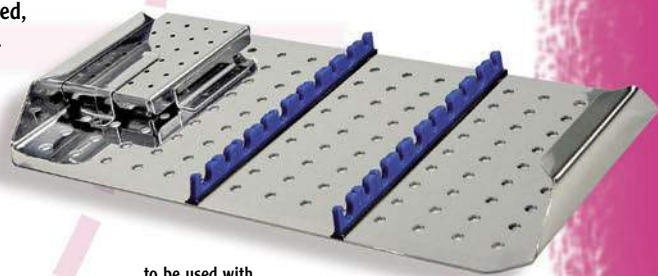
supplied without instruments
and silicone finger mat

EZHold®
Insert Instrument Tray
18/8 stainless steel, perforated,
complete with needle case and...

E45-246 silicone instrument bars

E45-247 silicone finger mat

E45-248 silicone nap plate



to be used with
E45-245 instrument box

EZHold®
Instrument Sterilising Box
18/8 stainless steel, 245 x 134 x 35 mm,
perforated lid and bottom

E45-245



instrument box to hold
E45-246 to E45-248 instrument tray

STERILISING EQUIPMENT



Stainless steel guarantees a solid exterior -wear-resistand surface - and even after long-term use stainless steel shows inself at its best.



Instrument Box
(165 x 90 x 35 mm)
lid with variable aperture,
with silicone instrument rack

E45-160 complete

E45-161 box only

E45-162 rack only

for Hot Air Sterilisation



Instrument Sterilising Case
(210 x 125 x 20 mm)
perforated lid and base,
with silicone finger mat

E45-150 complete

E45-151 case only

E45-152 mat only

Designed to protect a set of 8-12 microsurgical instruments. When the lid is closed, the tips of the cone shaped nubbins contact the inside of the lid preventing the instruments from moving within the case.

Medicine Cup
graduated inside

E45-172 25 ml

E45-175 50 ml



Solution Bowls
stainless steel, rounded corners

ø x h

E45-882 40 x 19 mm (0.05 l)

E45-883 61 x 30 mm (0.07 l)

E45-884 80 x 40 mm (0.14 l)

E45-885 128 x 55 mm (0.45 l)

E45-886 147 x 65 mm (0.70 l)

E45-887 167 x 75 mm (1.10 l)

E45-888 187 x 85 mm (1.60 l)



for solution and sponge material



Kidney Dishes
stainless steel, curled edges

E45-817 170 x 100 x 30 mm (0.25 l)

E45-825 250 x 140 x 40 mm (0.50 l)

E45-827 275 x 150 x 50 mm (0.75 l)

for solution and dressing material

EZHold® SILICONE RACKS AND NAP PLATES

PMO



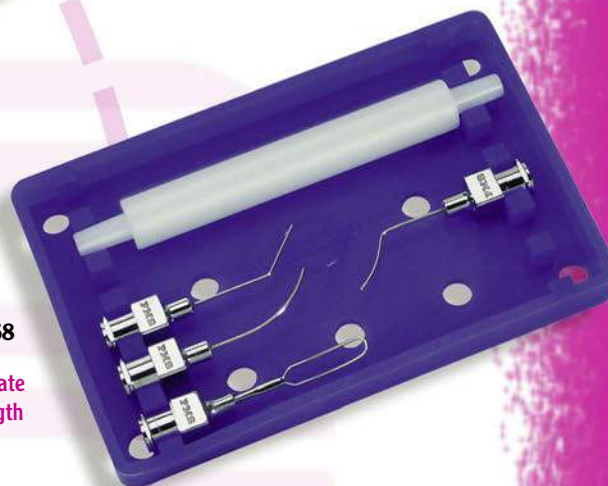
Silicone racks and soft silicone nap plates with wide spaced, coarse pins are ideal for safe storage and positioning of delicate surgical instruments in sterilising trays.



Silicone Instrument Rack
(160 x 85 x 20 mm)

E45-162

holds 10 single-armed instruments of
100 to 120 mm total length, can be
used with E45-161 sterilisation tray



Silicone Cannula Rack
(85 x 55 x 8 mm)

E45-168

for conventional cannulae and delicate
instruments of max. 80 mm total length

all racks supplied without instruments

Silicone Nap Plates
soft material with wide spaced coarse pins;
for standard eye surgical instruments

E45-136 for E45-131

E45-137 for E45-132

E45-138 for E45-133

E45-139 600 x 300 mm
can be cut to size



STERILISING EQUIPMENT

Each instrument should be placed carefully
in the silicone racks or on nap plates
to prevent movement and possible
damage during handling.



LIGHT WEIGHT INSTRUMENT STERILISATION TRAYS

PolyVac® Minitainer are made of autoclavable plastic Radel® and intended for the protection, organisation and the delivery of surgical instruments to the sterile field. They are designed to facilitate the sterilisation process when used in conjunction with soft wrapping material or a rigid sterilisation container, which allow air removal, steam penetration/evacuation (drying) & maintain the sterility of the internal components.



Minitainer Sterilisation Tray
with silicone holding bar for:

- E45-001 1 instrument
- E45-002 2 instruments
- E45-003 3 instruments

*safely stores
micro instruments*

Micro Instrument Sterilisation Tray
with silicone finger mat to hold:

- E45-004 180 x 50 x 18.5 mm
(up to 4 instruments)
- E45-005 180 x 75 x 18.5 mm
(3 to 5 instruments)
- E45-008 190 x 102 x 19 mm
(5 to 8 instruments)
- E45-015 267 x 160 x 16 mm
(10 to 15 instruments)
- E45-025 267 x 160 x 35 mm
double level tray
(20+ instruments)

STEAM

Base, lid and mat are perforated
for steam penetration.

PREPARATION & LOADING

When preparing sterilisation trays it is important to remember that the sterilant must be able to contact the instrument, so there must be space between the instrument and holding device. Once cleaned, prepared and packaged the trays are ready to be sterilised.



AVAILABLE ON REQUEST

Instrument sterilisation trays with customised teflon inserts.

STERILISING EQUIPMENT



Sometimes you find partners who have products that work really well with your products. In our efforts to help our customers we have partnered with some of the best. On request, we can offer you an interesting range of speciality products for cleaning, disinfection, lubrication, storage and sterilisation.



CLEANING AND DISINFECTION

OPTIM® 33TB surface cleaner and disinfectant for medical products is the optimal choice in infection control. Ready-to-use wipes and liquid (with spray applicator for 1l bottles) are your ideal partner for proper care and cleaning of surgical instruments.



ULTRASONIC CLEANING DEVICES

SONOREX® ultrasonic cleaners and cleaning/disinfection agents are best suitable for intensive cleaning of stainless steel surgical instruments. Trust SONOREX® for all your ultrasonic cleaning needs, we do.

LUBRICATION

Our master instrument makers prefer special oil spray -free of silicone- for lubricating joints, box locks and ratches. RS-SPRAY No. 2820 rust preventing spray (see page 26) and DR. WEIGERT neodisher® IP Spray are best to avoid stains, crusts and rust-growth on instrument surfaces.



INSPECTION

After each cleaning all instruments should be carefully checked for cleanliness and inspected -if necessary under the microscope- for correct operation. We have access to a broad range of stereo microscopes, magnifying loops and spectacles manufactured by M/s Eschenbach Optik GmbH, a German specialist of Vision Technology Products



STERILISATION

PMS EZWash® trays and EZLoad® sterilisation containers and accessories have been used in nearly all modern sterilisation methods with excellent results. They are in conformity with valid quality standards with regard to materials, sterilisation, handling, transportation and storage. For typical steam autoclave cycles, the following are recommended times and temperatures developed from outside testing:



		132°/134° C
		270°/273° F
≥ 10 Min.		≥ 4 Min.
<small>EN Unwrapped only, in sterilization tray, gravity displacement steam sterilization cycle</small>		<small>EN Prevacuum steam sterilization cycle, in sterilization tray, wrapped or unwrapped</small>

Regardless of which sterilisation method is used, always follow instructions supplied by the manufacturer of the steriliser.

STERILISING EQUIPMENT



NOTES

A large, light blue, semi-circular area with a dashed border, containing horizontal dotted lines for writing notes.

123 ABC

PHS



ABC

123

ABC

123



ABC

ABC

123

ABC

123

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ALPHABETHICAL INDEX

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A large dashed gray arc framing a series of horizontal dotted lines for writing notes.



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