

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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BUREAU VERITAS
Certification

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)



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

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.

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

PMS



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CORPORATE PROFILE

Precision Means Security

In 1988, PMS GmbH was established by Volker Schneckenger 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 OPTHALMOLOGY 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).

PMS



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CORPORATE PROFILE

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.

PMS



MORE THAN MEETS THE EYE

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

PMS



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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:** SURGIPO 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.

COPYRIGHT

All photographs, illustrations and descriptions in this catalogue - including the cover - are fully protected by copyright, and may not be reproduced in any form without prior written permission of PMS GmbH.

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.

GENERAL INFORMATION



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.

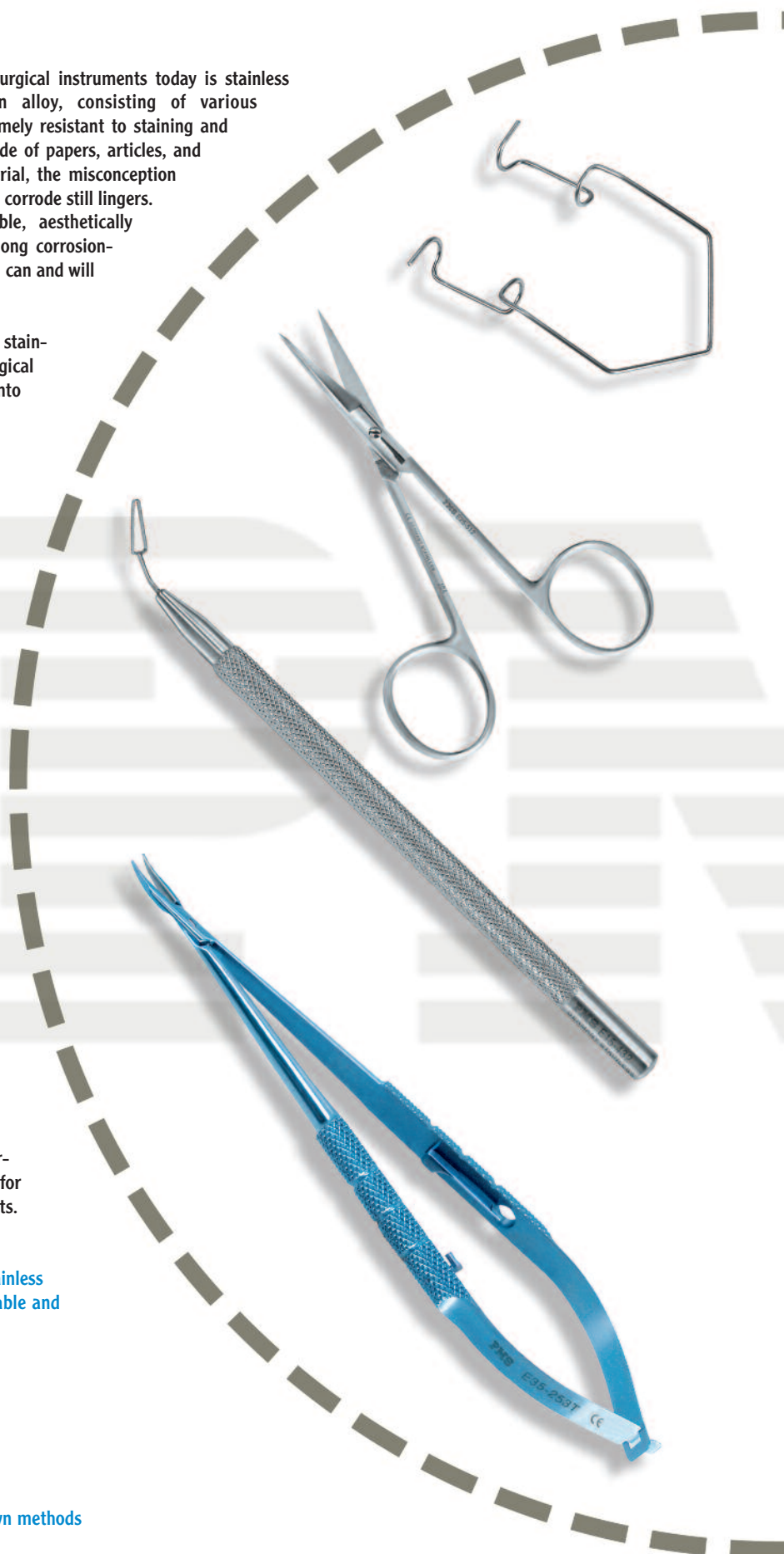
400 Series Steel

(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.

INSTRUMENT CARE

PMS



3B instruments

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CERTIFICATE

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
above-mentioned organisation has
set out in the following standards / regulations.

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

**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





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.



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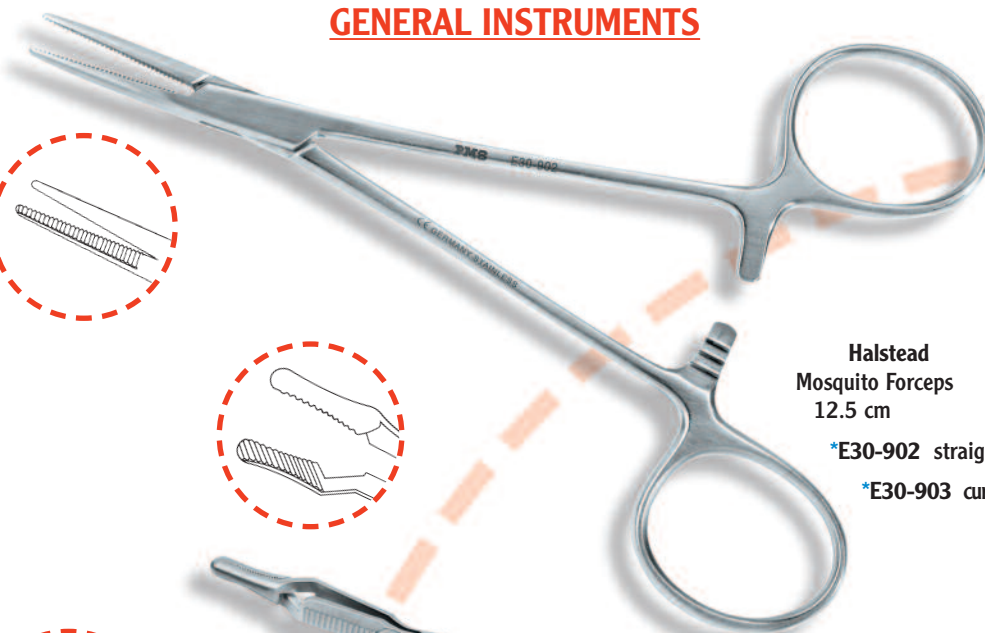
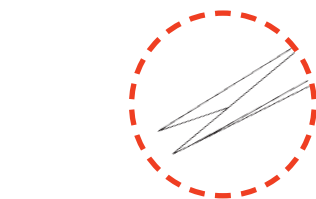
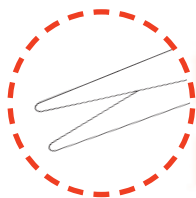
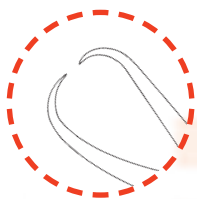
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BASIC



GENERAL INSTRUMENTS



**Halstead
Mosquito Forceps**
12.5 cm

*E30-902 straight

*E30-903 curved



**Dieffenbach
Serrefine, 3.5 cm**

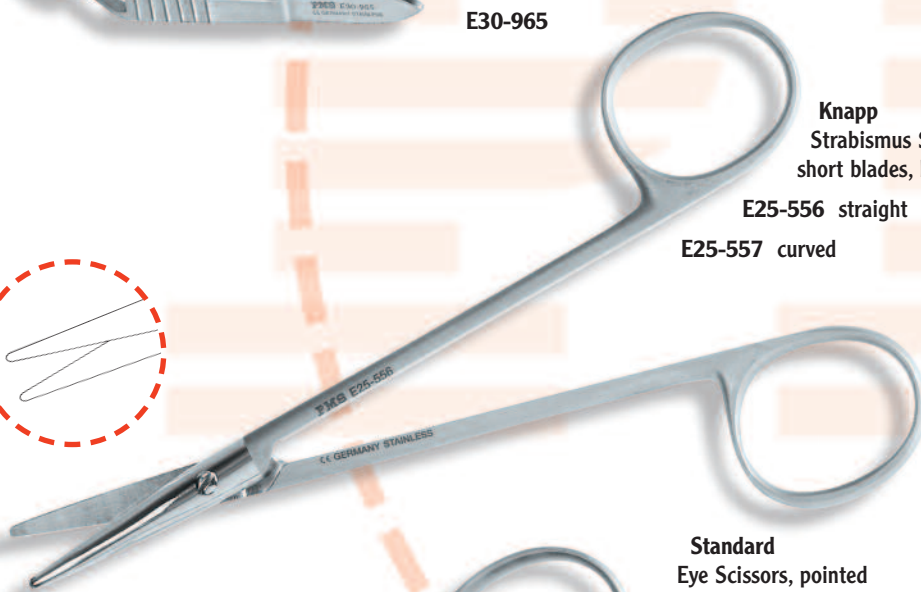
E30-934 straight

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



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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

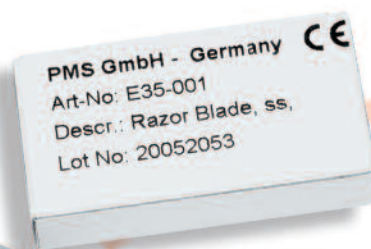
E40-080

for use with Phaco
or I/A tips

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



BLADE BREAKER, HANDLES & BLADES



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

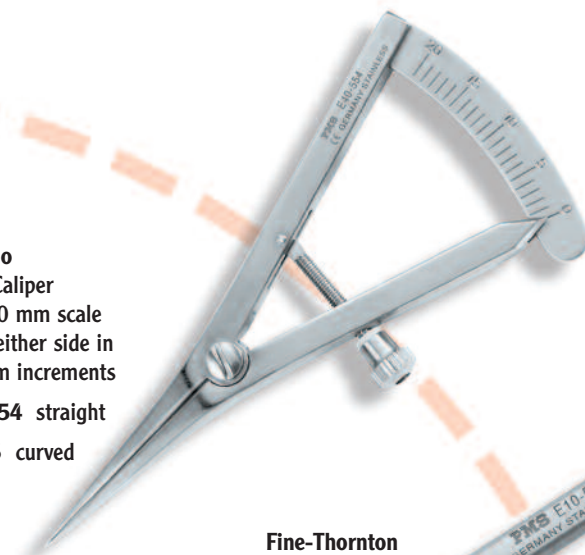


Castroviejo

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.

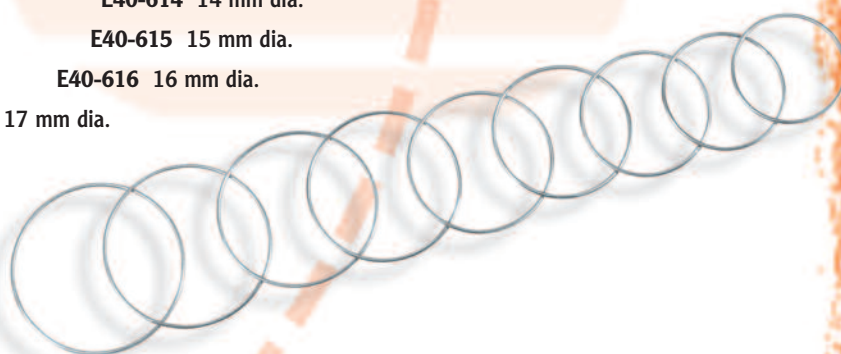
E40-617 17 mm dia.

E40-618 18 mm dia.

E40-619 19 mm dia.

E40-620 20 mm dia.

E40-622 22 mm dia.

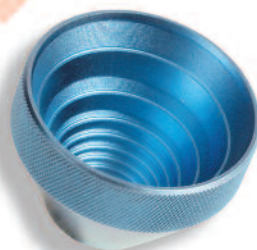


Maloney

Astigmatic Keratometer

E10-690T

for qualitative evaluation
of astigmatism



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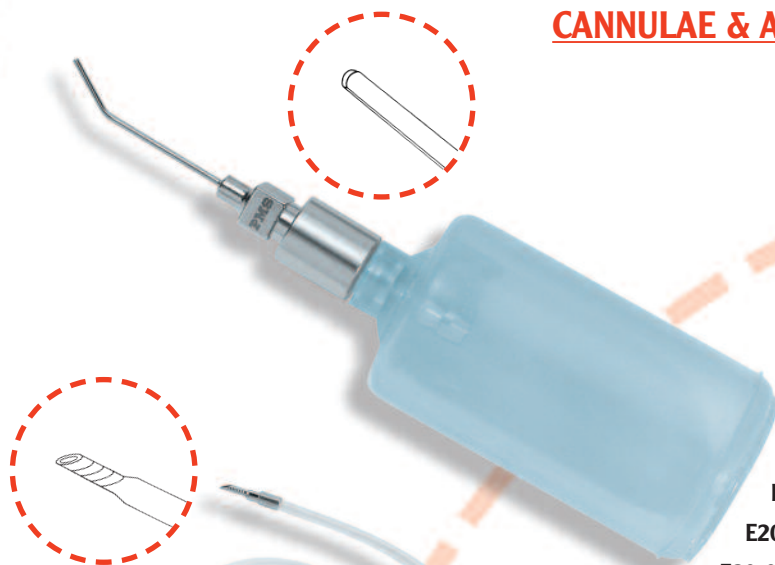
NOVÉ MĚSTO NA MORAVĚ

BASIC EYE INSTRUMENTS

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



CANNULAE & ACCESSORIES



Bishop-Harmon
AC Irrigator System

E20-001 complete

E20-002 silicone bulb

E20-003 LL adaptor

E20-004 19GA cannula

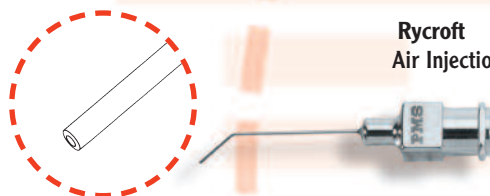


Lewicky

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

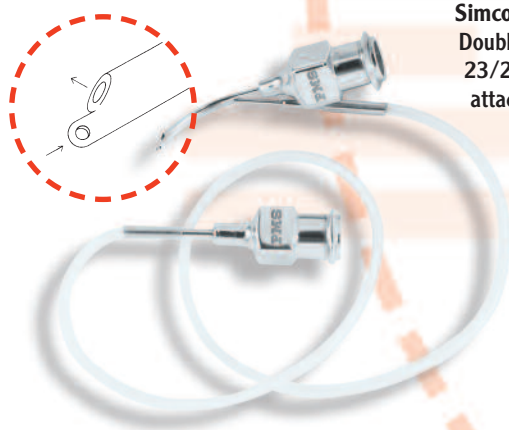
Air Injection Cannula

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

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



McIntyre

Aspirating Handpiece

(autoclavable) Teflon, 7.5 cm

male/male Luer connectors

E20-881

Luer-Lock cone

IOL & PHACO INSTRUMENTS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

*E15-423



Sinskey 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

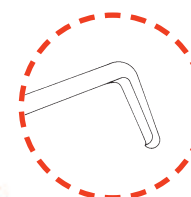
introduced in 1975 still
as popular as ever



Nagahara
Phaco Chopper
angled 10 mm shaft,
"wedge-shaped" blade,
11.5 cm

*E15-656 60° cutting edge

*E15-659 90° cutting edge



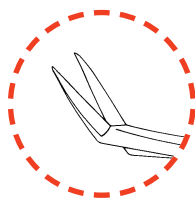
also available on coloured aluminium handles, see page 95, 107 and 131

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

BASIC EYE INSTRUMENTS



SCISSORS



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

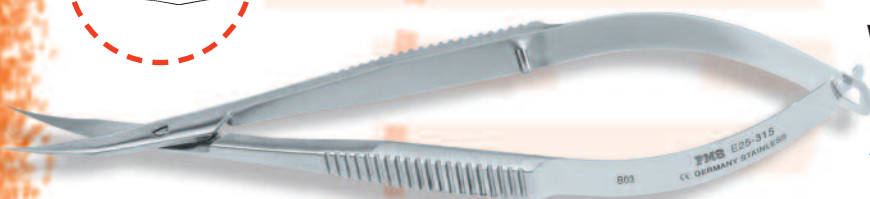
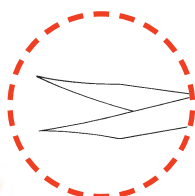
E25-200



Micro Iris Scissors
curved, small blades,
10.0 cm

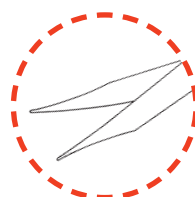
*E25-251 sharp tips

*E25-253 blunt tips



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

*E25-315



the working horse
of cataract surgery

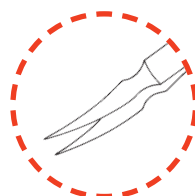


**Westcott
Tenotomy Scissors**
curved, large blades,
blunt tips, 11.5 cm

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

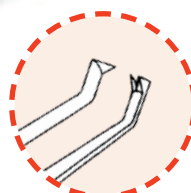
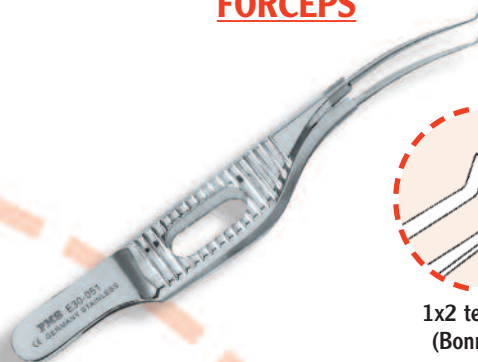


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

BASIC EYE INSTRUMENTS

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

*E30-051

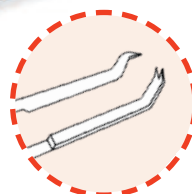


1x2 teeth 90°
(Bonn style)

TYPES OF
FORCEPS TIPS

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

*E30-081



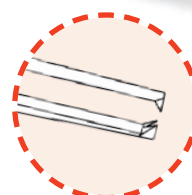
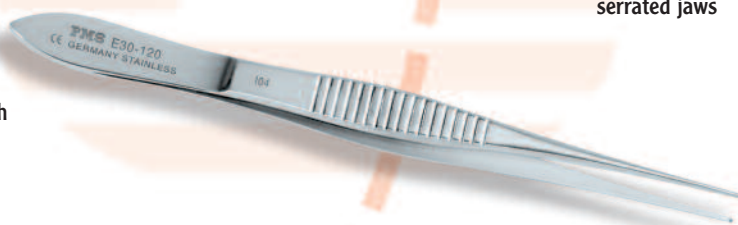
1x2 teeth 45°
(Castroviejo style)

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



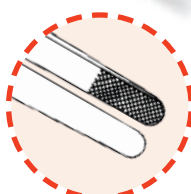
serrated jaws

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

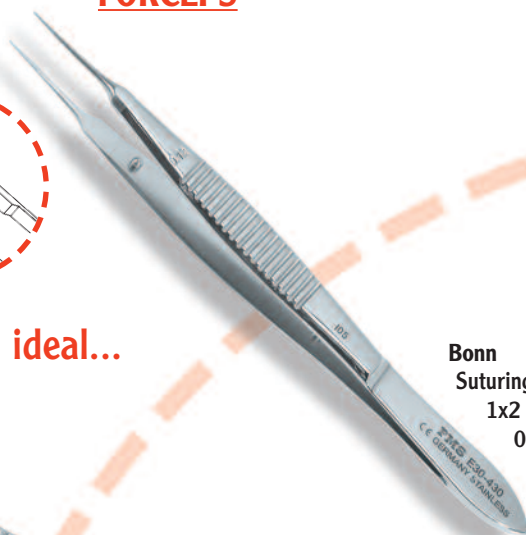
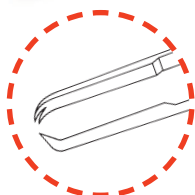
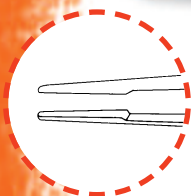
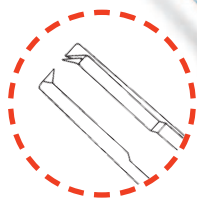


FORCEPS

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

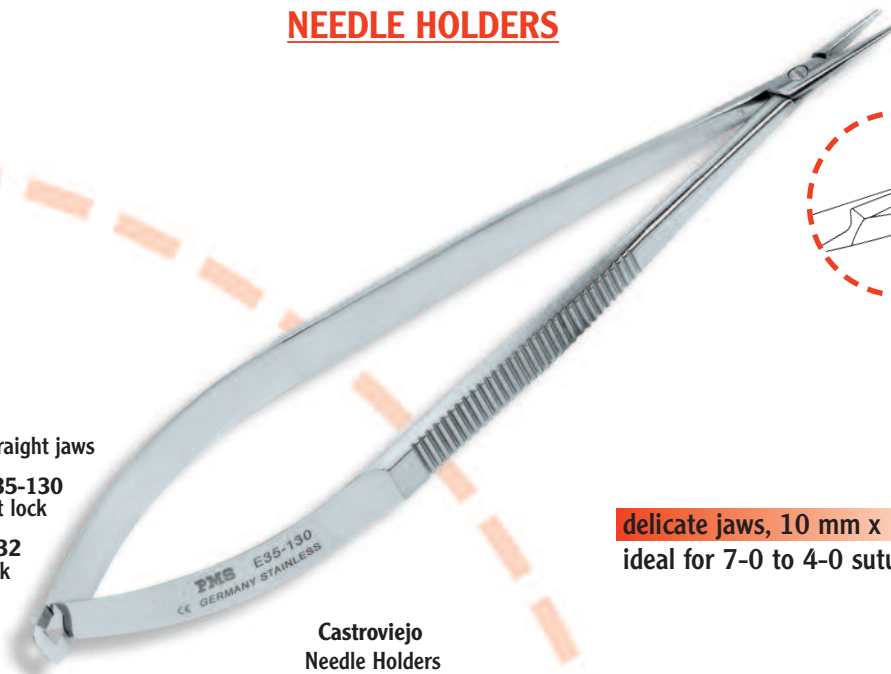
*also available in titanium, see page 41,43,45

NEEDLE HOLDERS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

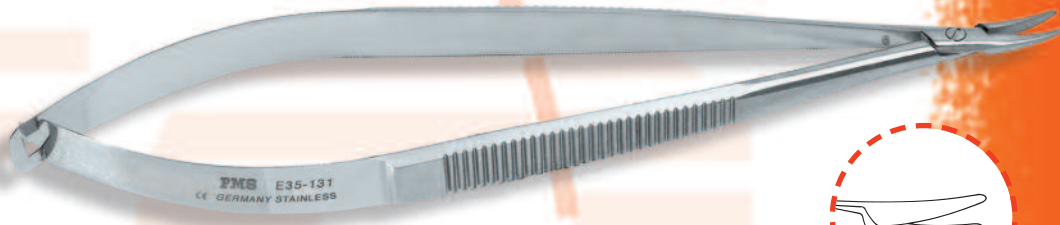


Castroviejo
Needle Holders
14.0 cm

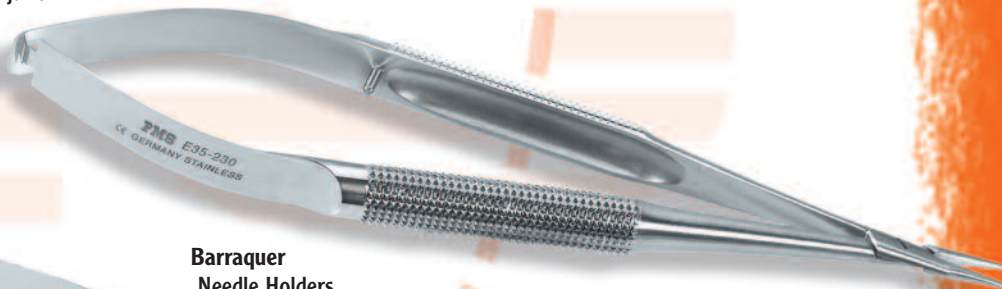
delicate jaws, 10 mm x 1.0 mm
ideal for 7-0 to 4-0 sutures



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



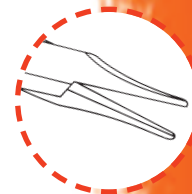
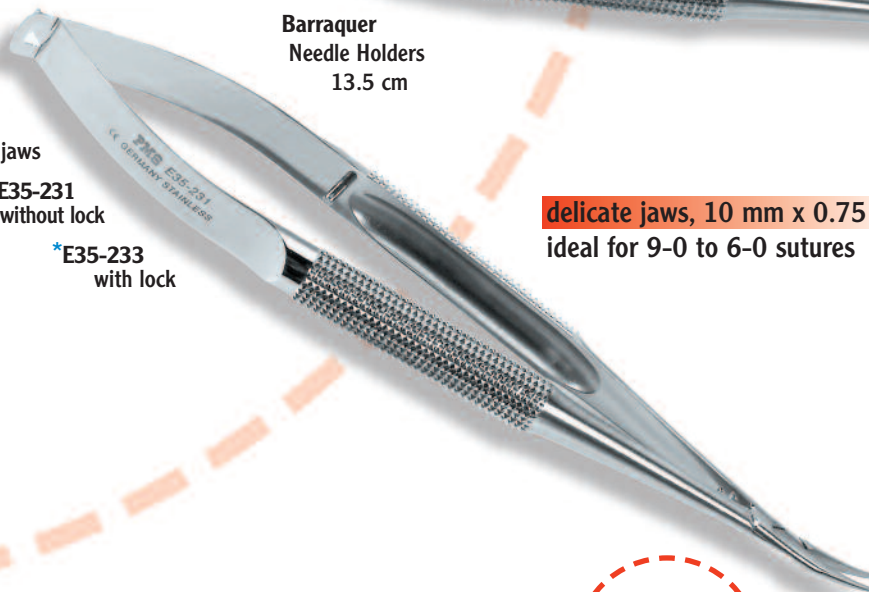
straight jaws
E35-230
without lock
E35-232
with lock



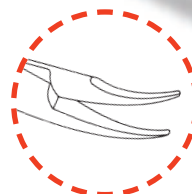
Barraquer
Needle Holders
13.5 cm

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



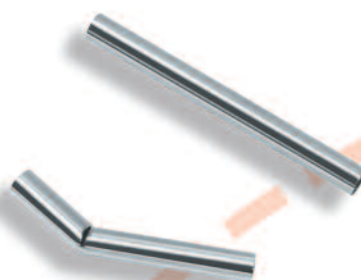
BASIC EYE INSTRUMENTS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

BASIC EYE INSTRUMENTS

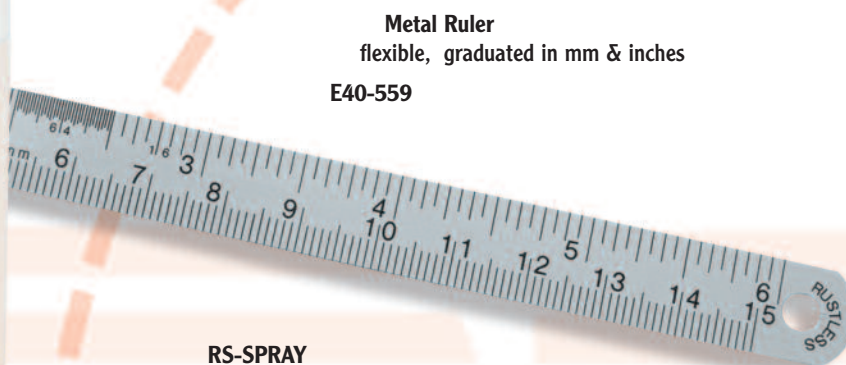
MISCELLANEOUS PRODUCTS



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.



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
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- E25-401 Vannas Capsulotomy Scissors, page 22
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- E25-556 Knapp Strabismus Scissors, page 16
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- 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
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- 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)



WHY TITANIUM? 30

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KNIVES, FIXATION RINGS AND CALIPERS 33

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FIXATION FORCEPS 40

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SUTURE TYING FORCEPS 44-45

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PMS-ECOLINE® 47

SET 48





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



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.

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.



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

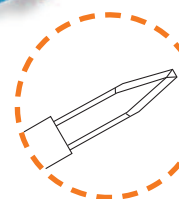
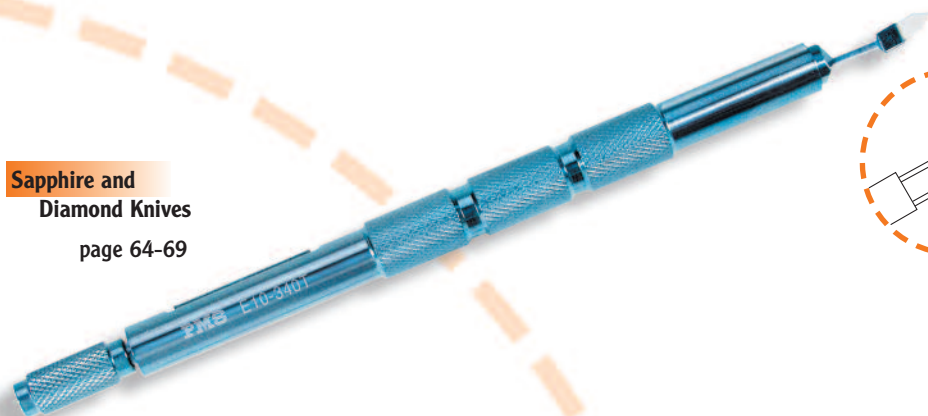
- Various sizes help customise procedural sets.
- Soft silicone finger mats (latex free) gently secure instruments and provide ventilation to facilitate drying.
- Clear Radel® lids allow easy identification of instruments.

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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

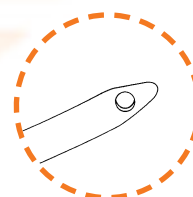
Vitreoretinal Instruments
page 170-177



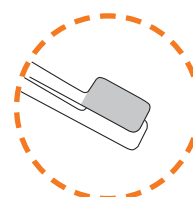
EZCut® IOL Cutters
page 132-133



Bimanual I/A Systems
page 110-119



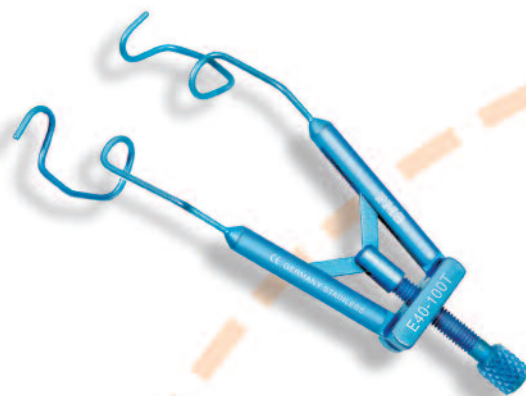
Salz
Nucleus Splitter Forceps
cross-action paddle style jaws,
textured external surfaces,
7.5 cm
E30-562T



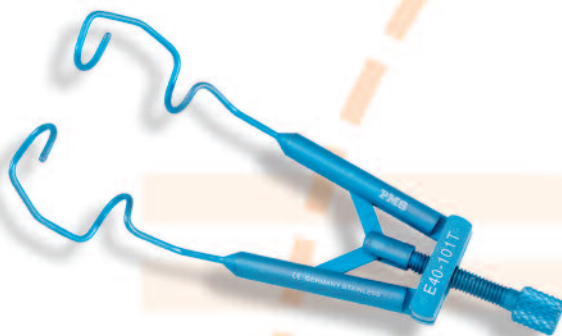
TITANIUM EYE INSTRUMENTS



EYE SPECULAE



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

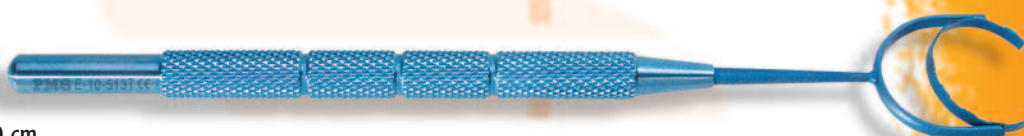
for atraumatic fixation of the eye during phaco



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

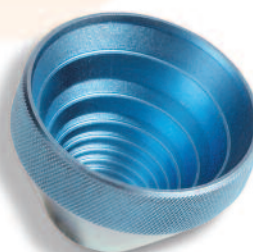
E10-513T 13 mm ID for clear corneal incision

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

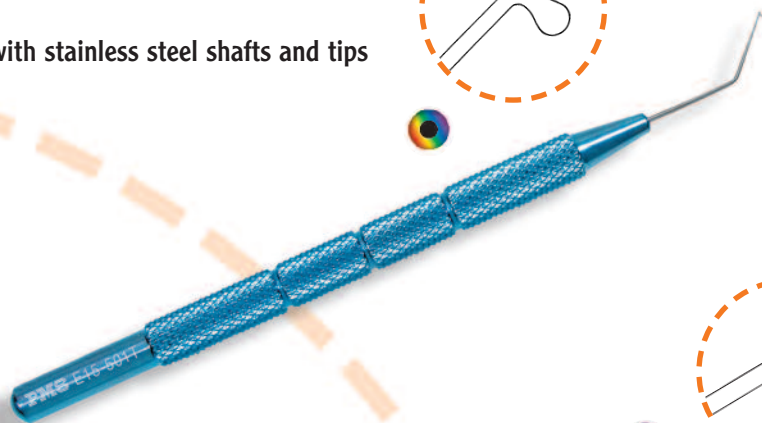
designed to spin, chop and crack
the nucleus; ideal to protect the
capsule posteriorly, and Iris
during Phaco & I/A
cortical clean up



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

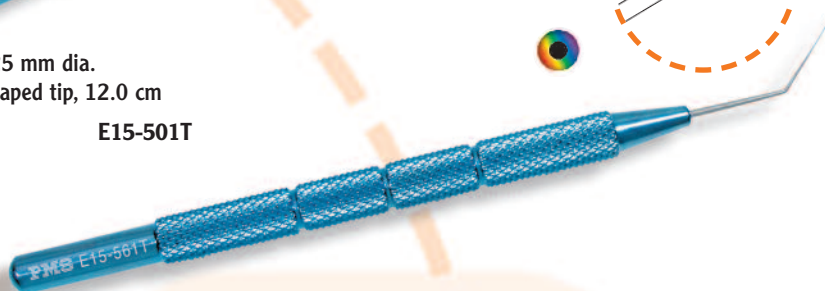
LENS AND IRIS HOOKS

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



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

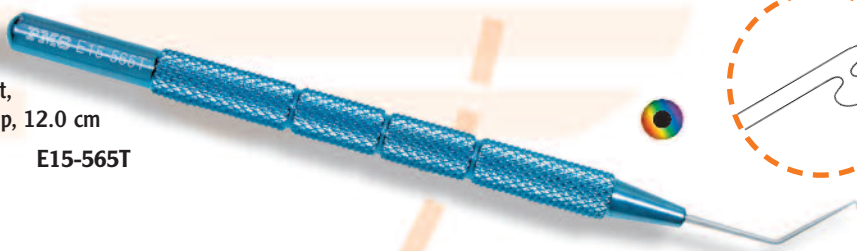
E15-560T straight

E15-561T angled



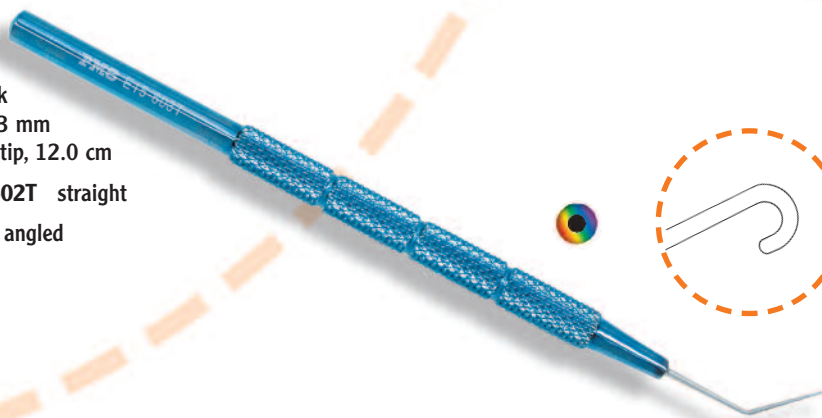
Rentsch
Lens Manipulator
& Iris Retractor
straight shaft, "boat hook" tip, 12.0 cm

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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

TITANIUM EYE INSTRUMENTS

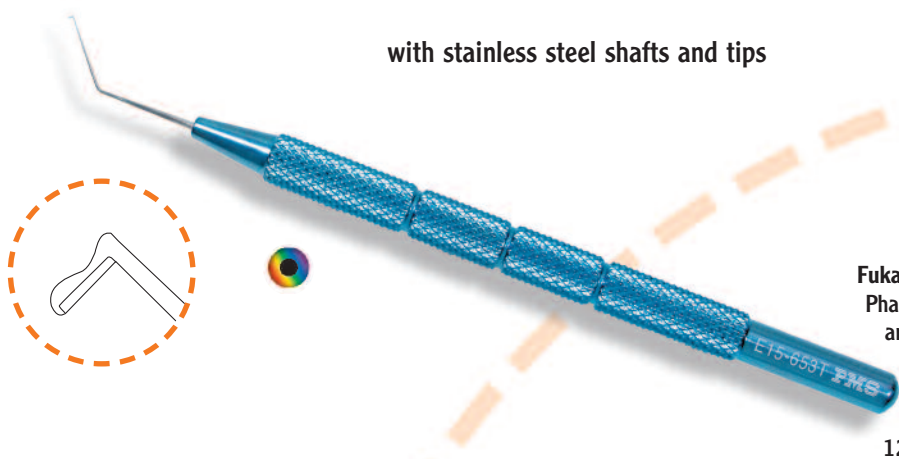


also available on coloured aluminium handles, see page 130 and 131



PHACO CHOPPERS

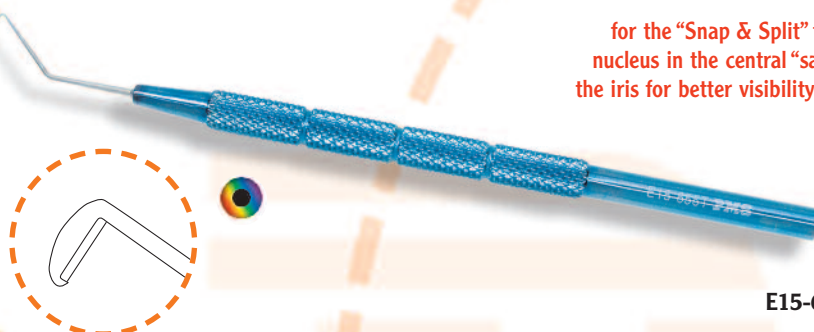
with stainless steel shafts and tips



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

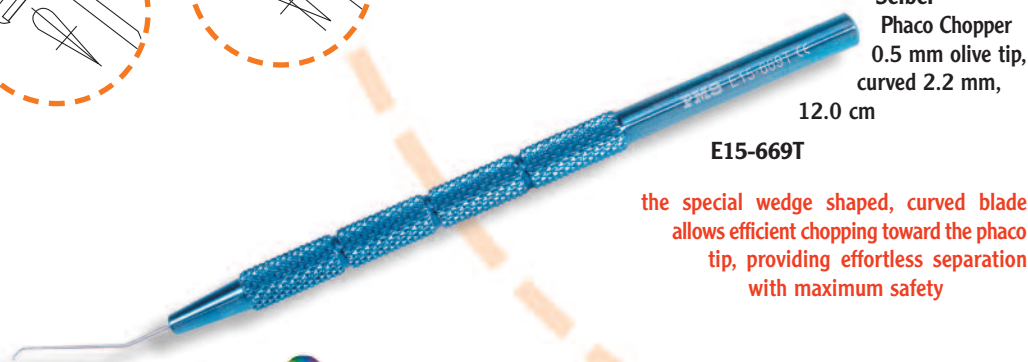
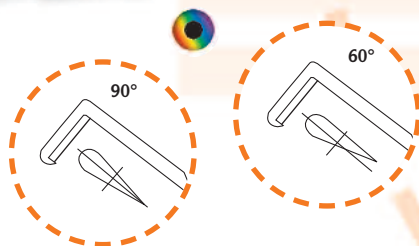


world-wide best seller

Nagahara
Phaco Chopper
wedge shaped tip, 12.0 cm

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

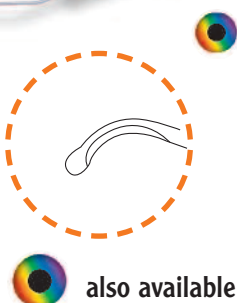
E15-659T 90° cutting edge
to cut toward the side port incision



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



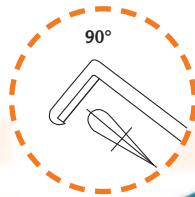
combination of a Rosen Phaco Splitter & Bechert Nucleus Rotator



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

Nagahara/Sinsky
Phaco Spatula
13.0 cm

E15-675T

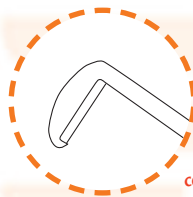


combination of a Nagahara Phaco Chopper & Sinsky IOL Hook



Masket
Phaco Spatula
13.0 cm

E15-676T



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



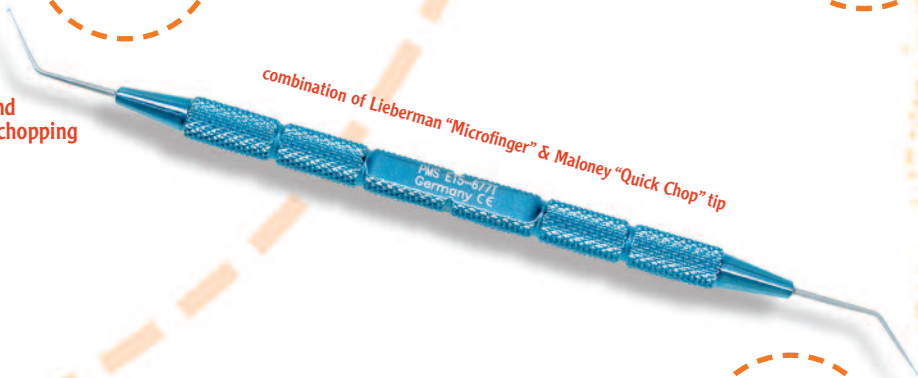
Chang
Phaco Chopper
13.0 cm

E15-677T



ideal for vertical and
horizontal phaco chopping

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

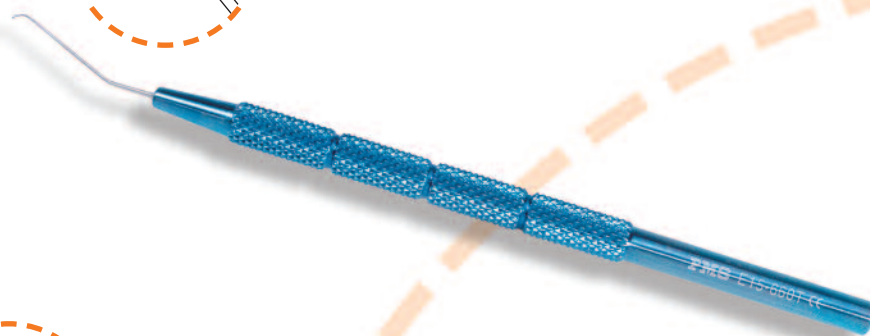


TITANIUM EYE INSTRUMENTS



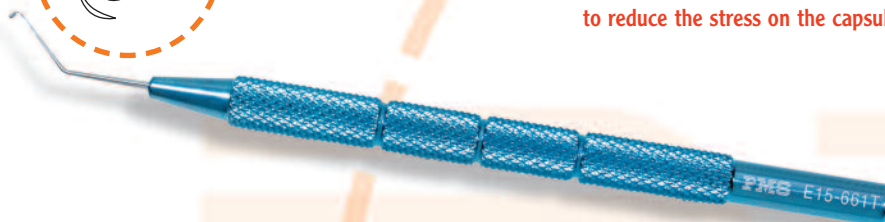
AKAHOSHI STYLE NUCLEUS SUSTAINERS

with stainless steel shafts and tips



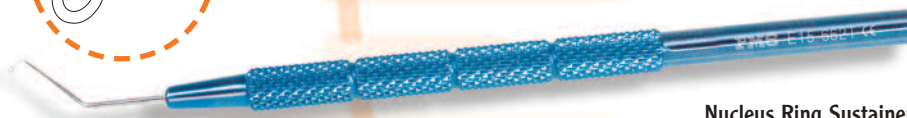
Nucleus Sustainer
microball tip, angled 1.5 mm, 12.0 cm
E15-660T

to reduce the stress on the capsular bag and zonules



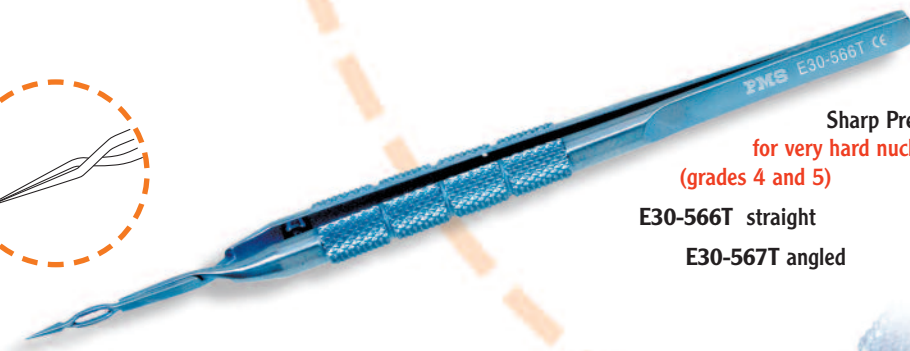
Nucleus Sustainer
olive shaped tip, angled 1.9 mm, 12.0 cm
E15-661T

for stable nuclear support during prechopping



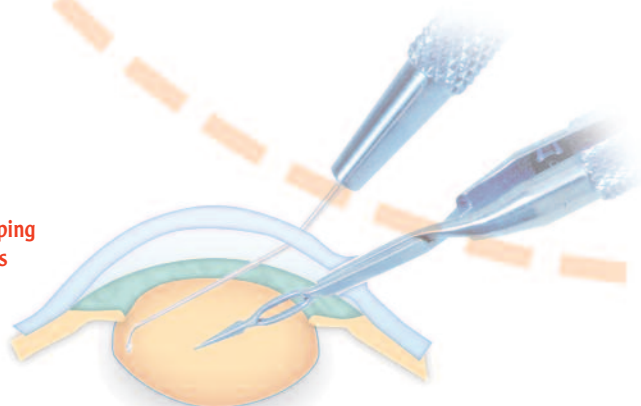
Nucleus Ring Sustainer
1 mm dia. ring, angled 2.5 mm, 12.0 cm
E15-662T

supports the nucleus from posterior side
during vertical prechopping



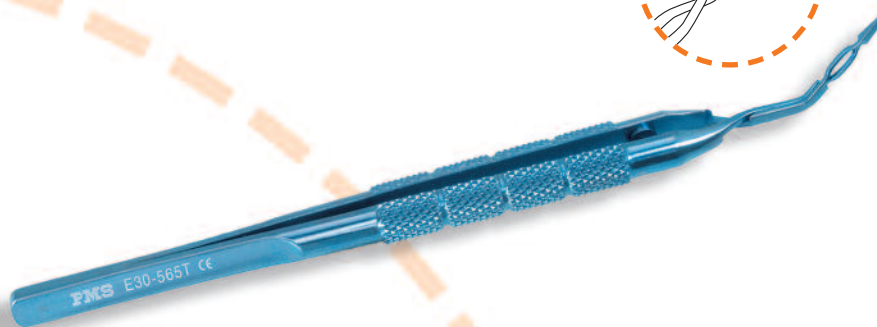
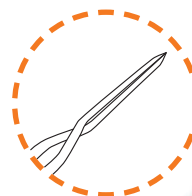
Sharp Prechopper
for very hard nucleus
(grades 4 and 5)
E30-566T straight
E30-567T angled

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



AKAHOSHI STYLE PRECHOPPERS

for detailed product information,
please refer to page 95

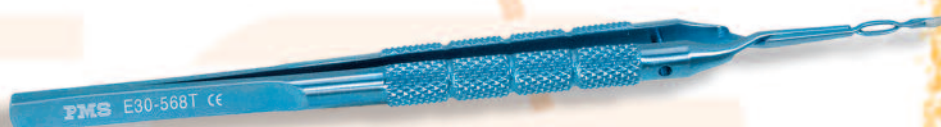
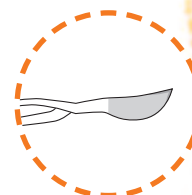


Universal Prechopper

E30-564T straight

E30-565T angled

for medium to hard nucleus

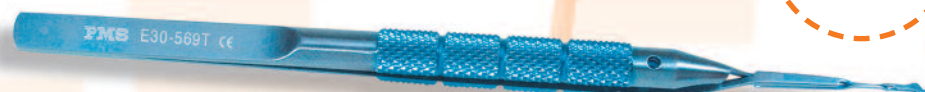


Karate Prechopper

TC textured jaws

E30-568T

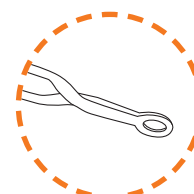
for vertical prechop of soft to medium nucleus



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

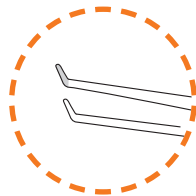


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

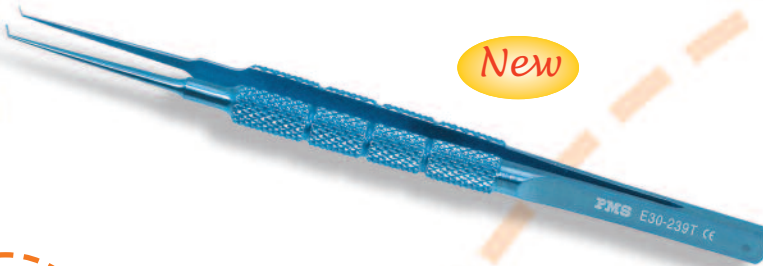
TITANIUM EYE INSTRUMENTS



FIXATION FORCEPS

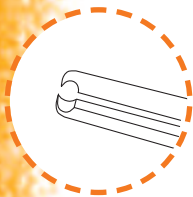


New



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

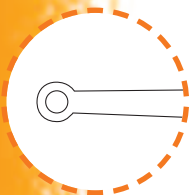


New



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

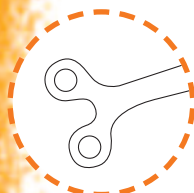


New



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

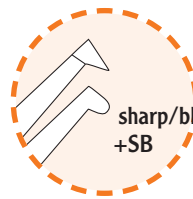
TIP DESIGNS



blunt tips
+BL



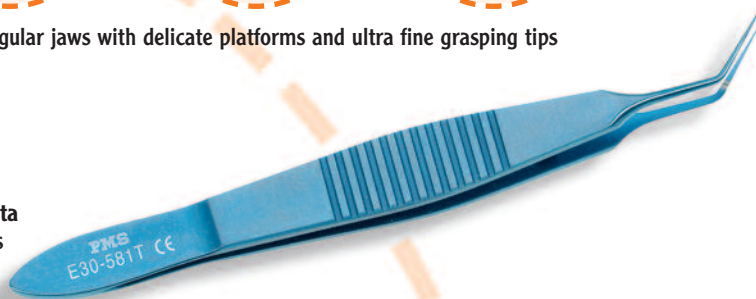
sharp tips
+SH



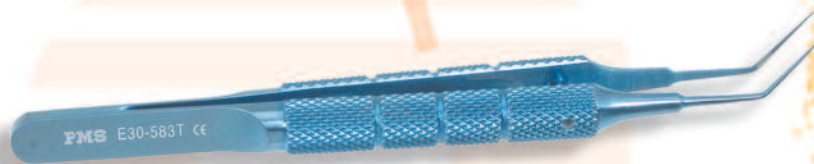
sharp/blunt tips
+SB

triangular jaws with delicate platforms and ultra fine grasping tips

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



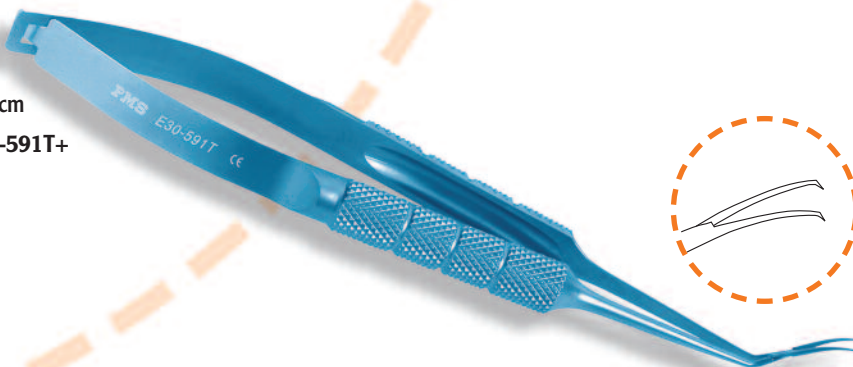
Utrata
Capsulorhexis Forceps
angled 11 mm shanks
10.5 cm
E30-583T+



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



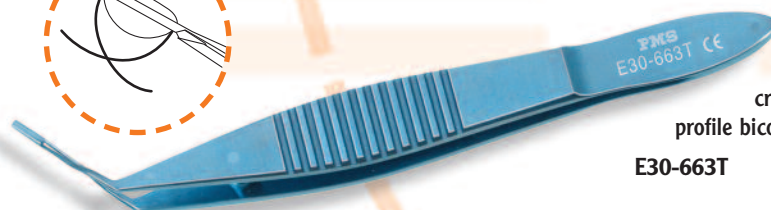
EZSert®
Buratto Style
Lens Insertion Forceps
angled 9 mm shanks,
biconvex jaws,
10.5 cm
E30-646T



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



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



EZSert®
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



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

TYING & LENS HOLDING FORCEPS

PMS

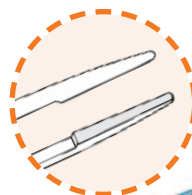


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

TITANIUM EYE INSTRUMENTS

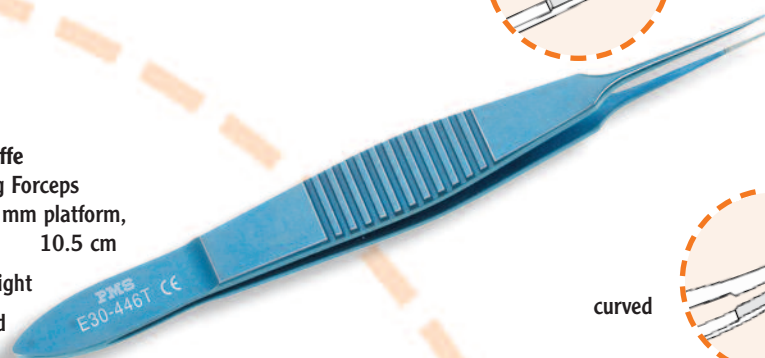
PLATFORM DESIGNS

straight

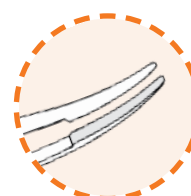


Jaffe
Tying Forceps
4 mm platform,
10.5 cm

E30-446T straight
E30-447T curved

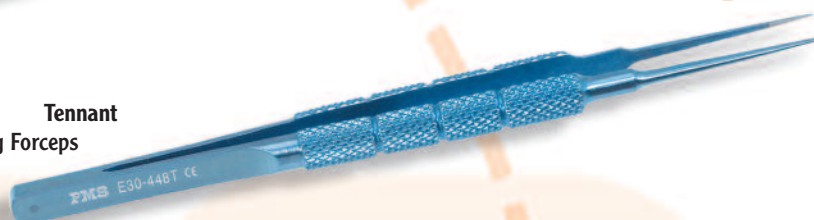


curved

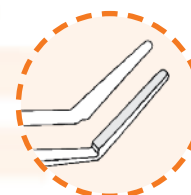


Tennant
Tying Forceps
6 mm platform,
10.5 cm

E30-448T straight
E30-449T curved



short
angled



McPherson
Tying Forceps
6 mm platform,
10.5 cm

E30-460T straight

E30-461T angled

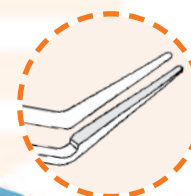


EZHold®
Kelman-McPherson
Lens Holding Forceps,
angled, 8 mm platform,
10.5 cm
E30-463T

ideal for implanting PMMA IOLs



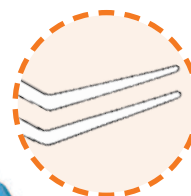
long
angled



EZHold®
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

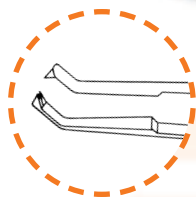
delicate, toothed forceps with tying platforms are ideal for grasping tissue and fine suture tying



Barraquer-Colibri
Corneal Forceps
1x2 teeth 90°, 7.5 cm,
without platform

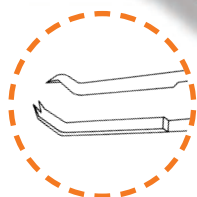
E30-051T 0.12 mm

E30-052T 0.20 mm



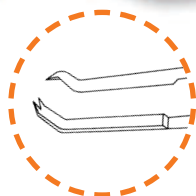
Barraquer-Colibri
Suture Tying Forceps
1x2 teeth 90°, 0.12 mm,
3 mm platform, 7.5 cm

E30-061T



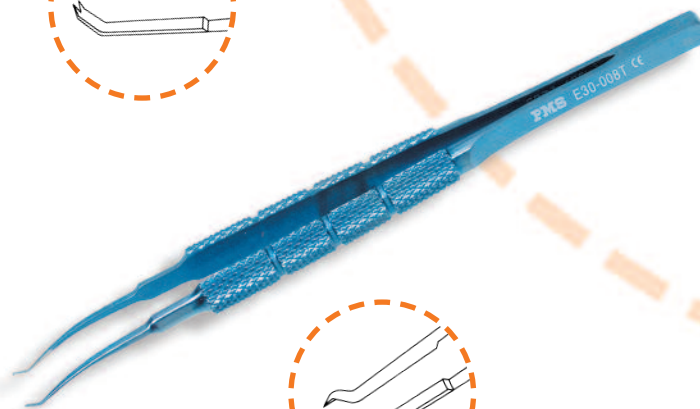
Harms-Colibri
Suture Fixation Forceps
1x2 teeth 45°, 0.12 mm,
3 mm platform, 7.5 cm

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

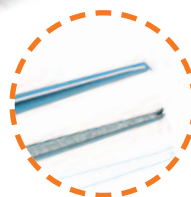
PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



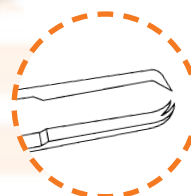
Castroviejo
Suture Tying Forceps
1x2 teeth 45°, 6 mm platform, 10.5 cm
E30-450T 0.12 mm
E30-451T 0.30 mm



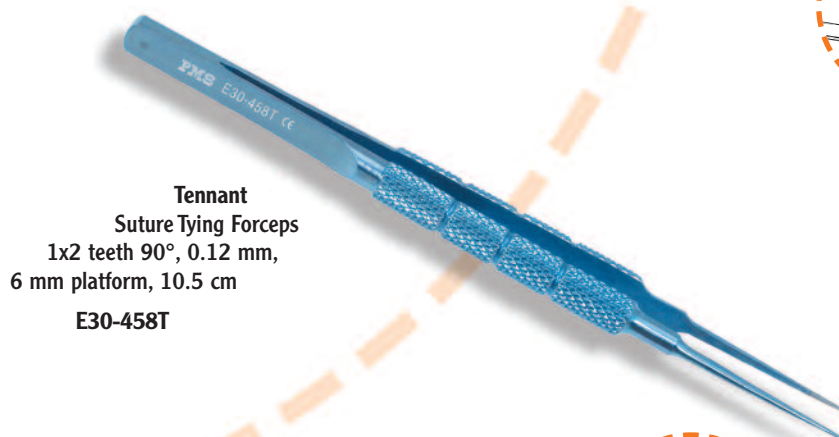
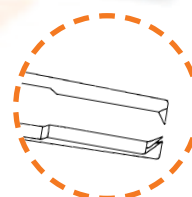
All tying platforms are covered
with **Tungsten Carbide**.



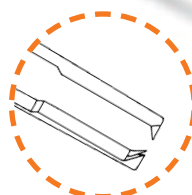
Girard
Corneoscleral Forceps
1x2 teeth 45°, 0.12 mm,
6 mm platform, 10.5 cm
E30-006T



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

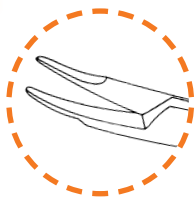


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

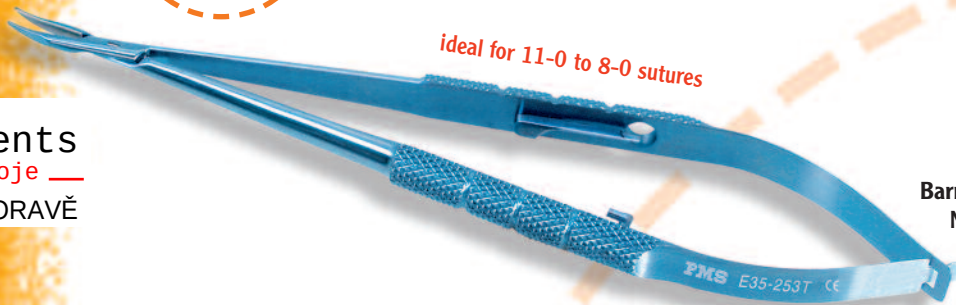
TITANIUM EYE INSTRUMENTS

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



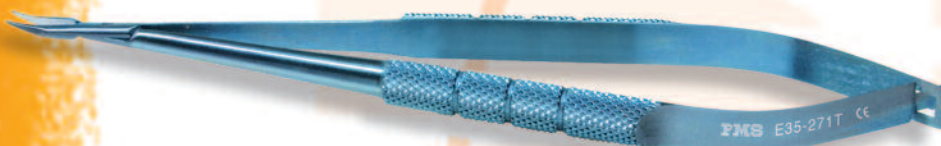
Barraquer
Needle Holder
very fine jaws,
9 mm x 0.4 mm,
12.5 cm

*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



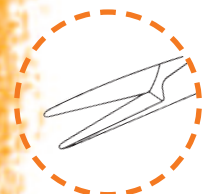
ideal for 11-0 to 7-0 sutures



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



ideal for 7-0 to 4-0 sutures



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

*E35-132T
straight, with lock

*E35-133T
curved, with lock

*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 Paufigue 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.

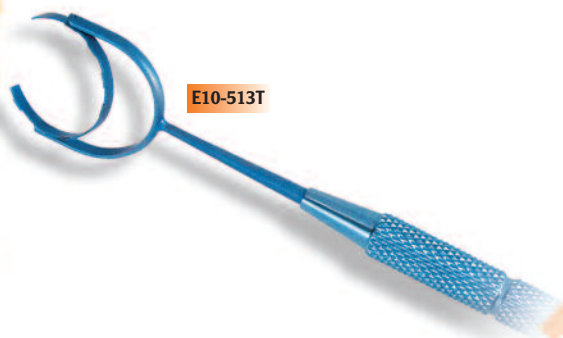




3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT CLEAR CORNEAL SET

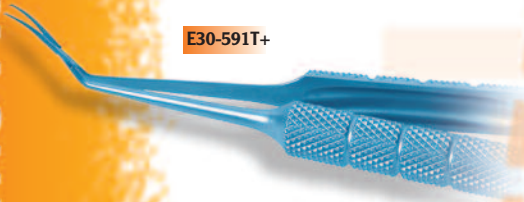
TITANIUM EYE INSTRUMENTS



E10-513T



E10-043



E30-591T+



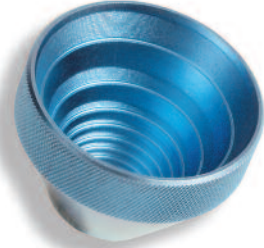
E15-660T



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

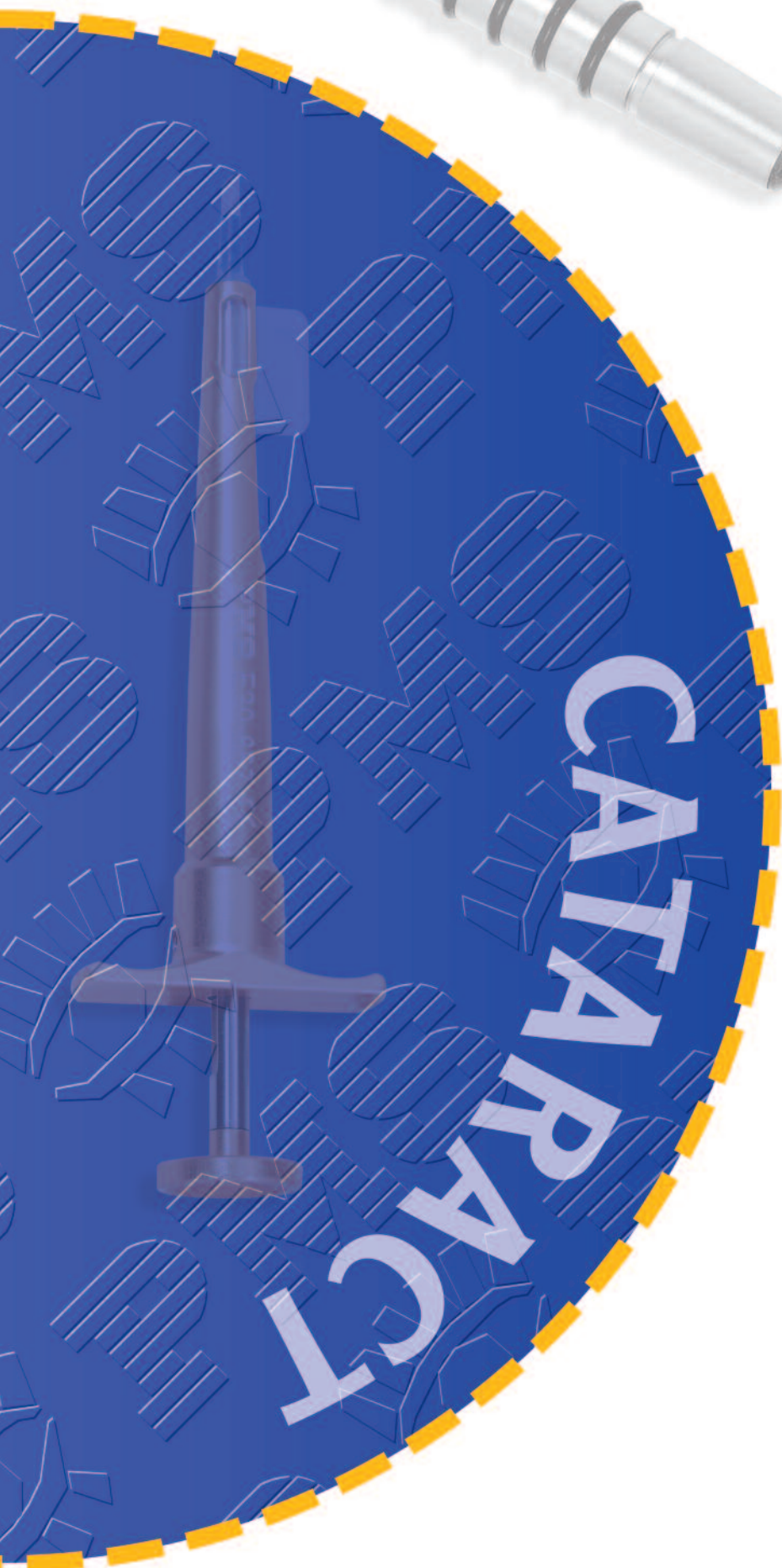
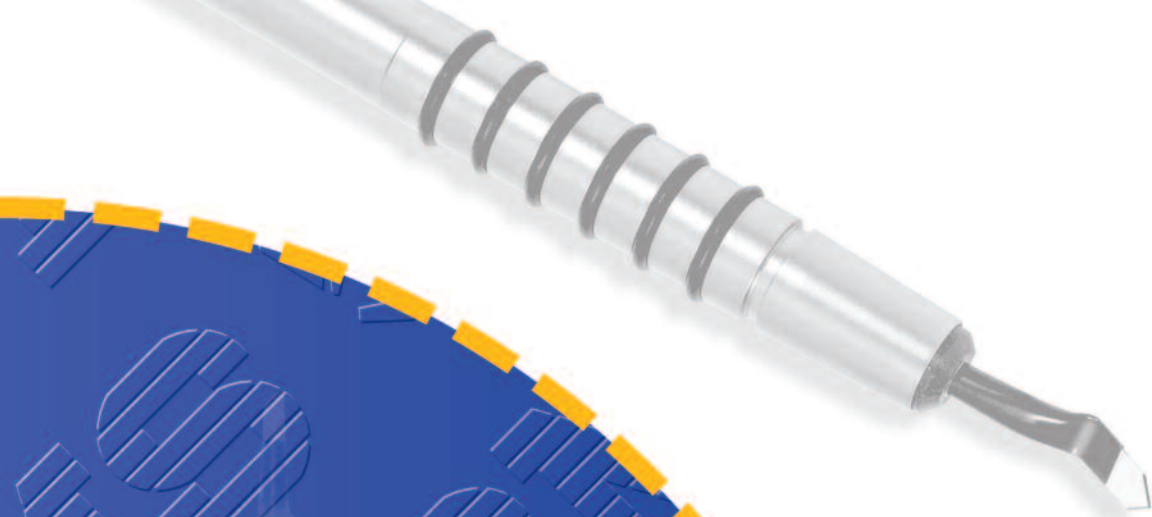
E30-646T Buratto IOL Insertion Forceps, page 42

E10-690T Maloney Keratometer, page 33

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ





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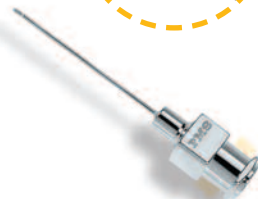
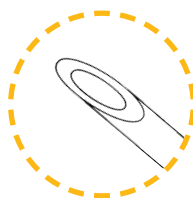
PHACO CHOICES

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CATARACT



ANESTHESIA NEEDLES

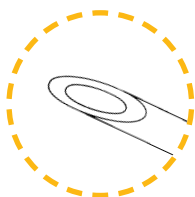


Atkinson Style
Anesthesia Needles
23GA/0.6 mm, bevel blunt tip

E20-672 peribulbar, 22 mm

E20-674 retrobulbar, 38 mm

E20-673 retrobulbar/peribulbar, 32 mm



Atkinson Style
Peribulbar Needles

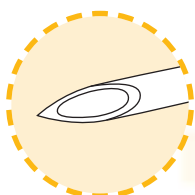
22 mm tube, bevel blunt tip,
single use, sterile (box of 10)

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.



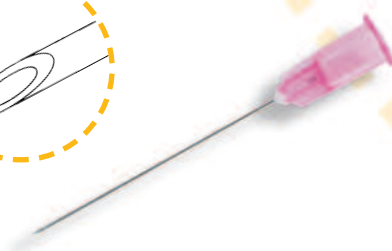
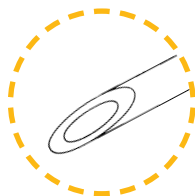
Atkinson Style
Retrobulbar Needle

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 ophtalmic surgery

ECED0308F

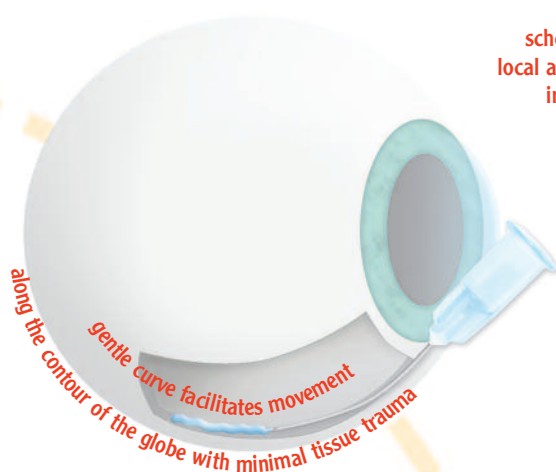
ANESTHESIA CANNULAE

PMS

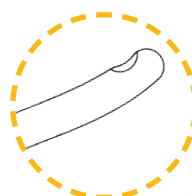


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

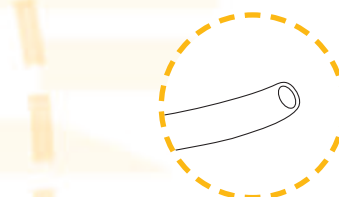


Corbin
Sub-Tenon Cannula
23GA/0.6 x 25 mm tube,
rounded tip, 0.3 mm top port
E20-683



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

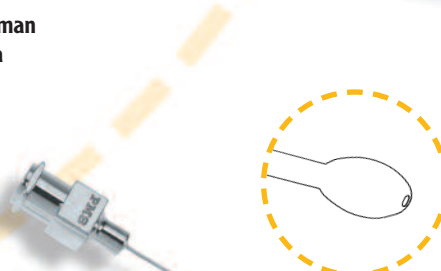


tapered and flattened tips facilitate advancement
within sub-Tenon's tissue plane

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



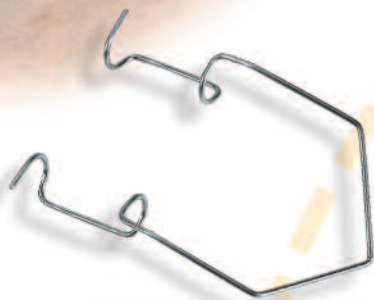
Barraquer
Wire Speculum

E40-011 adult size

E40-012 child size

E40-013 infant size

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

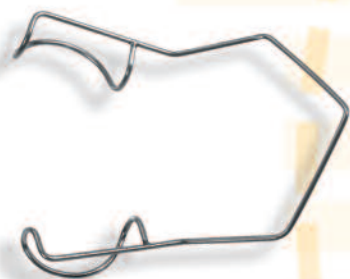


Kratz-Barraquer
Wire Speculum

E40-031 adult size

E40-032 child size

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

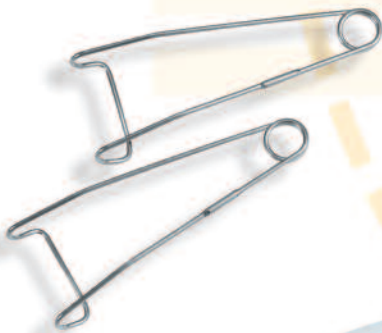


Barraquer
Wire Speculum (new model),
fenestrated rounded blades

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

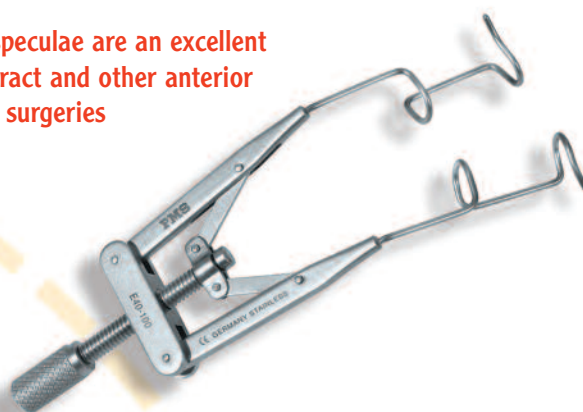


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

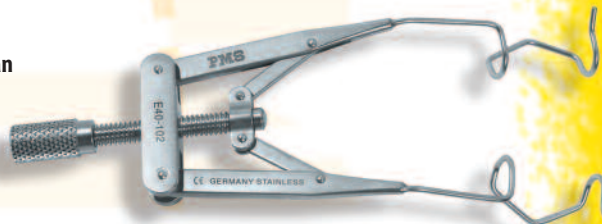
Lieberman
Nasal Speculum
E40-101 adult size

E40-101S child size



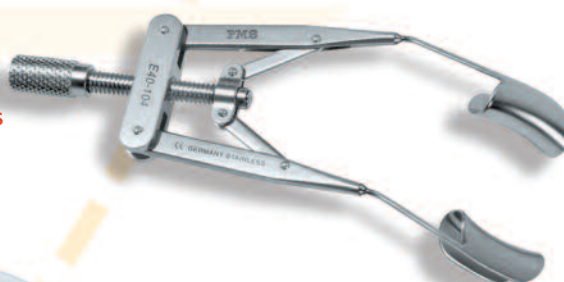
Lieberman
Temporal Speculum
E40-102 adult size

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



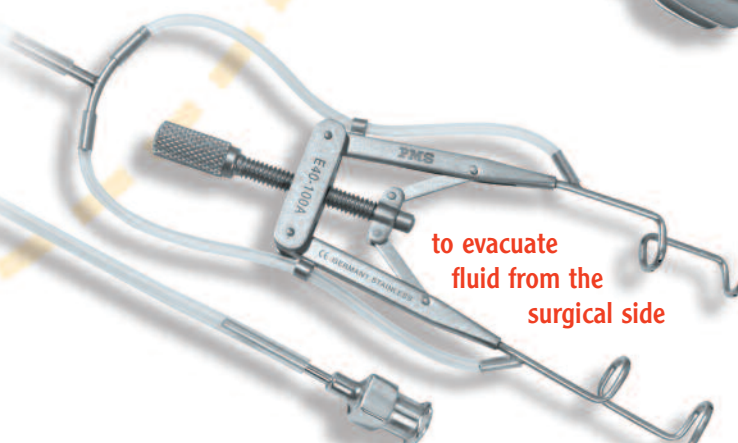
Lieberman
Temporal Speculum
E40-104 adult size
E40-104S child size

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

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.



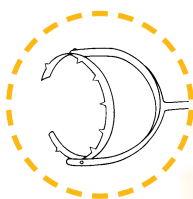
Fyodorov

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

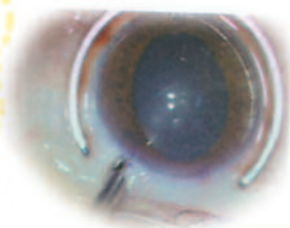
3/4 open swivel ring, with multiple blunt teeth, 13.0 cm

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

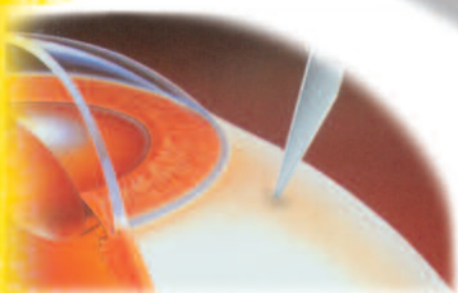
CATARACT INSTRUMENTS



3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ



Chuck Handle
(for miniature edged blades)

*E10-003K #3K, 10.0 cm

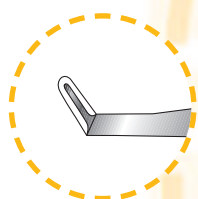
*E10-003KM #3KM, 7.5 cm



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

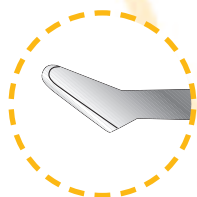
sharp all around surfaces;
ideal for undermining



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.

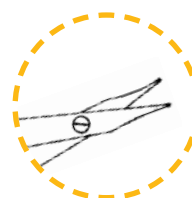


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

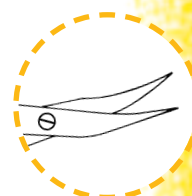
E25-311 sharp tips

E25-331 blunt tips



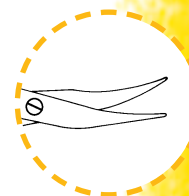
sharp tips are ideal for suture knots
and conjunctival incision, ...

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

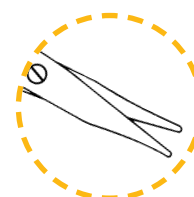
long model, 11.5 cm

E25-566 straight

E25-567 curved



strong, stable scissors for
performing a tenotomy

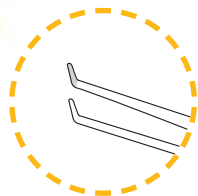


CATARACT INSTRUMENTS

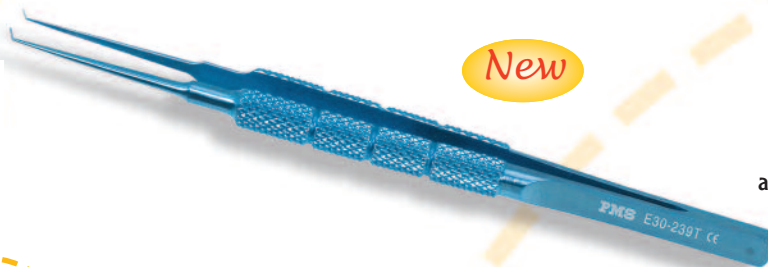


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

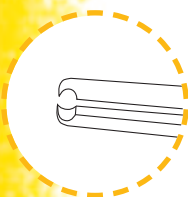


New



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

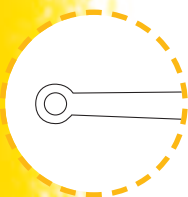


New



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

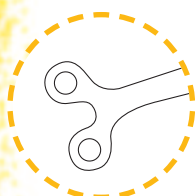


New



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

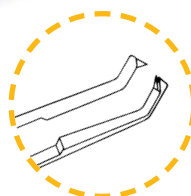
SUTURING FORCEPS

delicate, toothed forceps are
ideal for manipulation and fix-
ation 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

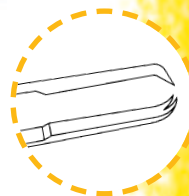
E30-061 0.12 mm

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



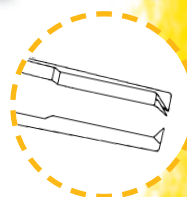
Troutman
Suturing Forceps
1x2 teeth 90°, 0.12 mm,
delicate platform, 10.0 cm

E30-438

Tying Forceps
delicate platform

E30-428 straight

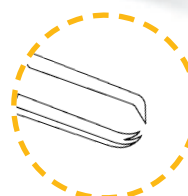
E30-429 curved



Castroviejo
Fixation Forceps
1x2 teeth 45°, 10.5 cm

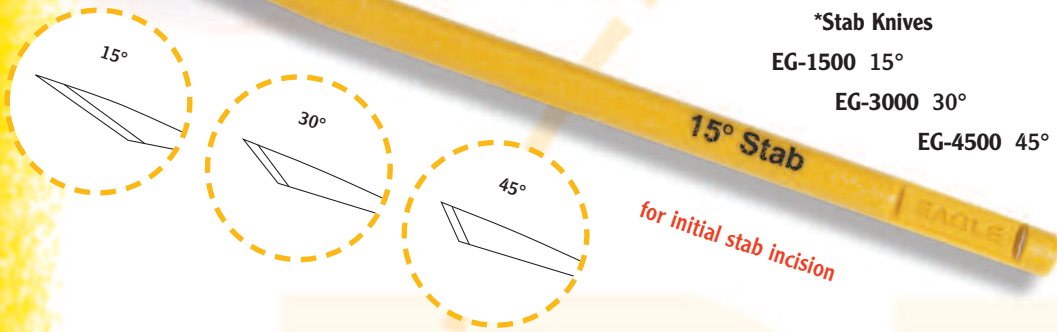
E30-453 0.3 mm

E30-455 0.5 mm

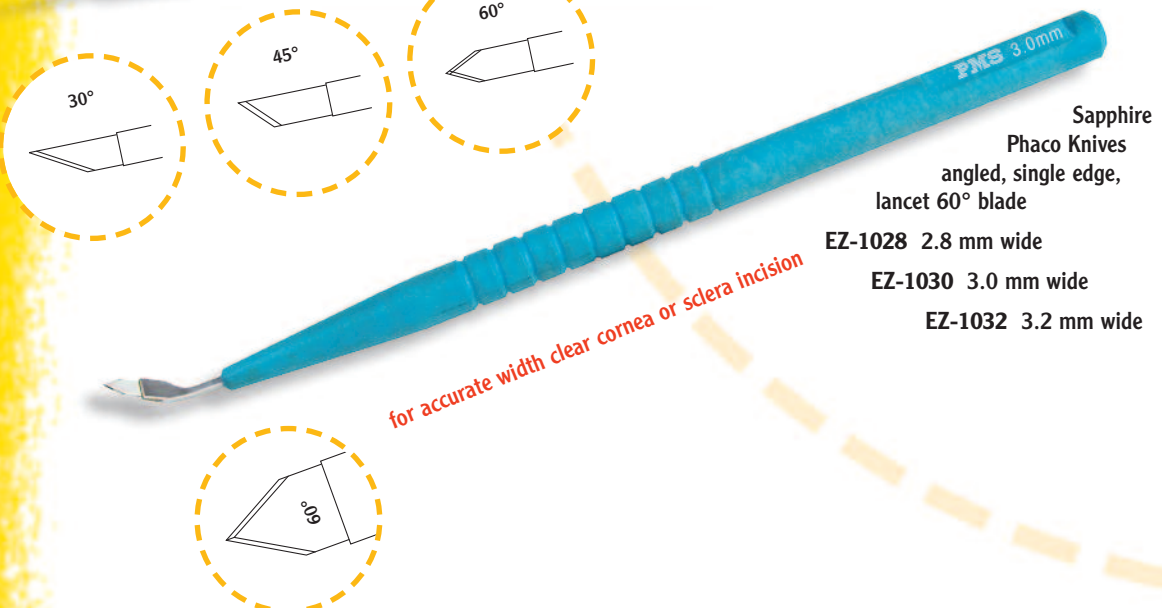
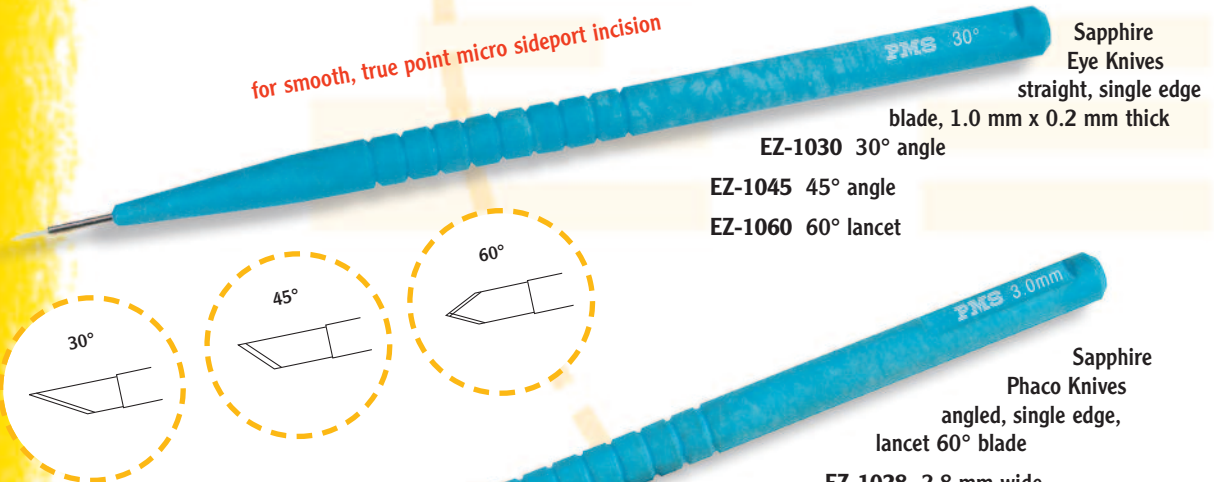
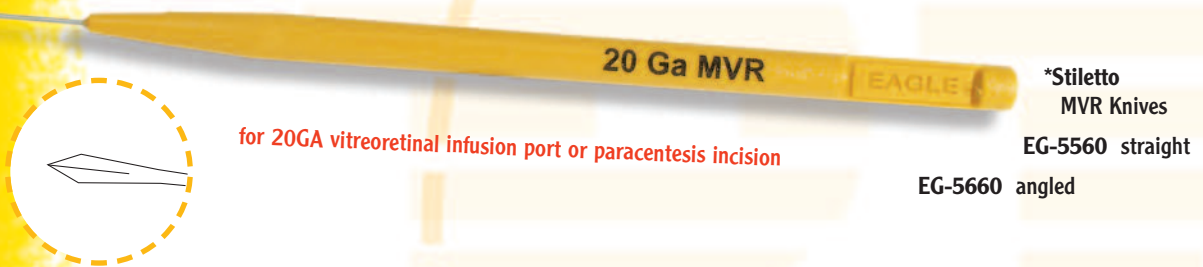


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS



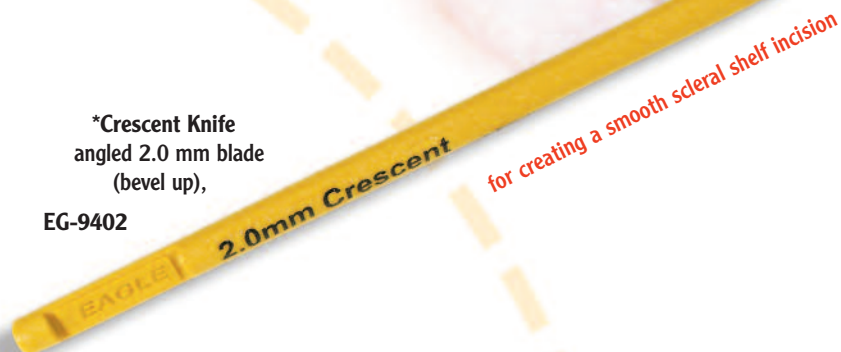
*Stab Knives
EG-1500 15°
EG-3000 30°
EG-4500 45°



disposable knives, sterile, 6 per box

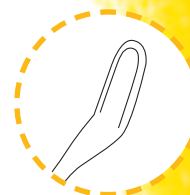


CATARACT INSTRUMENTS



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

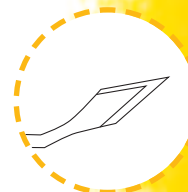
for creating a smooth scleral shelf incision



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



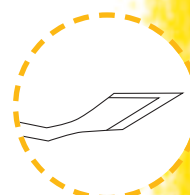
for accurate width phaco incision



***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



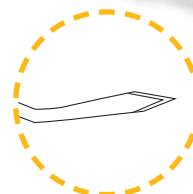
for bimanual phaco and micro cataract incision



***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



disposable knives, sterile, 6 per box

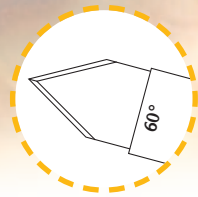


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

SAPPHIRE KNIVES

PMS 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

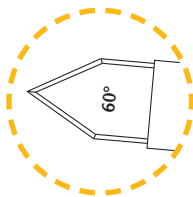
Sapphire Phaco Knives
angled, lancet 60° blade
(double edge)

E10-122 2.8 mm

E10-123 3.0 mm

E10-124 3.2 mm

for controlled
clear cornea and
sclera incisions



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

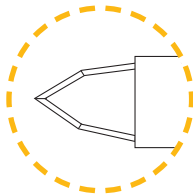
E10-142 2.8 mm

E10-143 3.0 mm

E10-144 3.2 mm

for accurate
clear cornea incisions

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



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

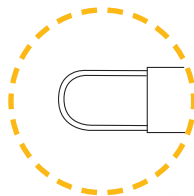
E10-152 2.1-2.9 mm

E10-153
2.35-3.2 mm

E10-154 2.5-3.4 mm

for precise and controlled phaco incisions

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



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

E10-191
1.5 mm

E10-192
2.0 mm

for scleral tunnel
incisions

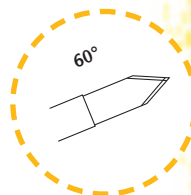
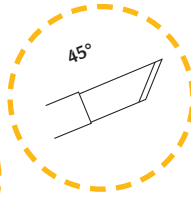
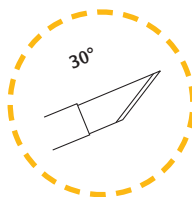
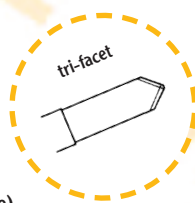
when the plunger is pushed forward the knife is ready for surgery

SAPPHIRE KNIVES

PMS



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



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

E10-112 20° tri-facet

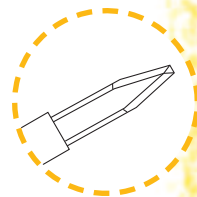
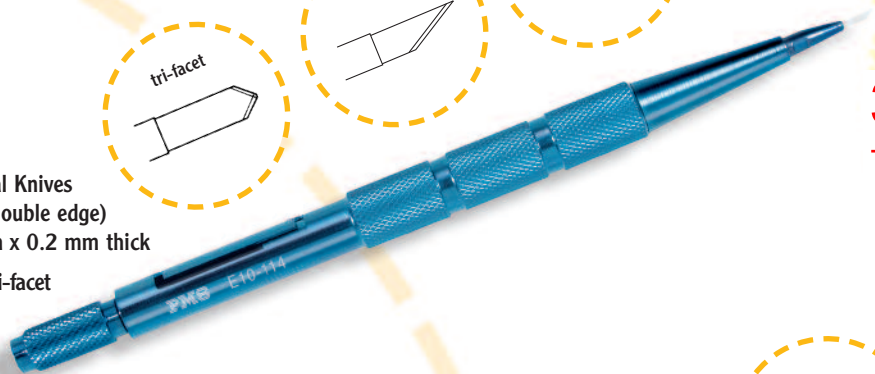
E10-113 30° angle

E10-114 45° angle

E10-116 60° lancet

E10-121 60° lancet, 1.2 mm wide

for smooth, true point micro stab incision



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

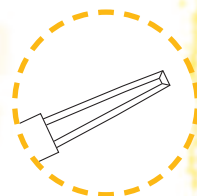
for ultra small, precise bimanual phaco incision



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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

FEATURES AT A GLANCE:

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

New

E10-200AY handle, yellow

E10-200AR handle, red

E10-200AG handle, green

E10-200AB handle, blue

E10-200AP handle, purple

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



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

SAPPHIRE BLADES - BLADE HOLDER

PMS



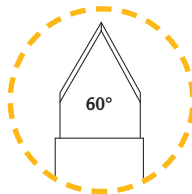
New

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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

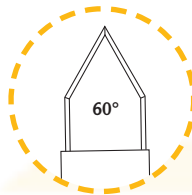
blade shapes	width in mm	removable holder with sapphire blade
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Lancet

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

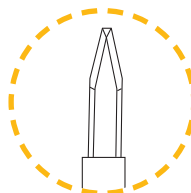
for precise phaco incision



Crescent

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

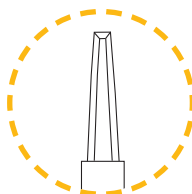
for smooth scleral shelf incision



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
----------	---------

for anterior segment procedures, initial groove, side-port, sclera tunnel, clear cornea technique, etc.

CATARACT INSTRUMENTS

Choose your own handle and blade style



DIAMOND KNIVES

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

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.

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



Diamond Trapezoid Knives
tapered spear shaped blade
(double lancet)

E10-352 2.0-2.3 mm

E10-353 2.6-3.0 mm

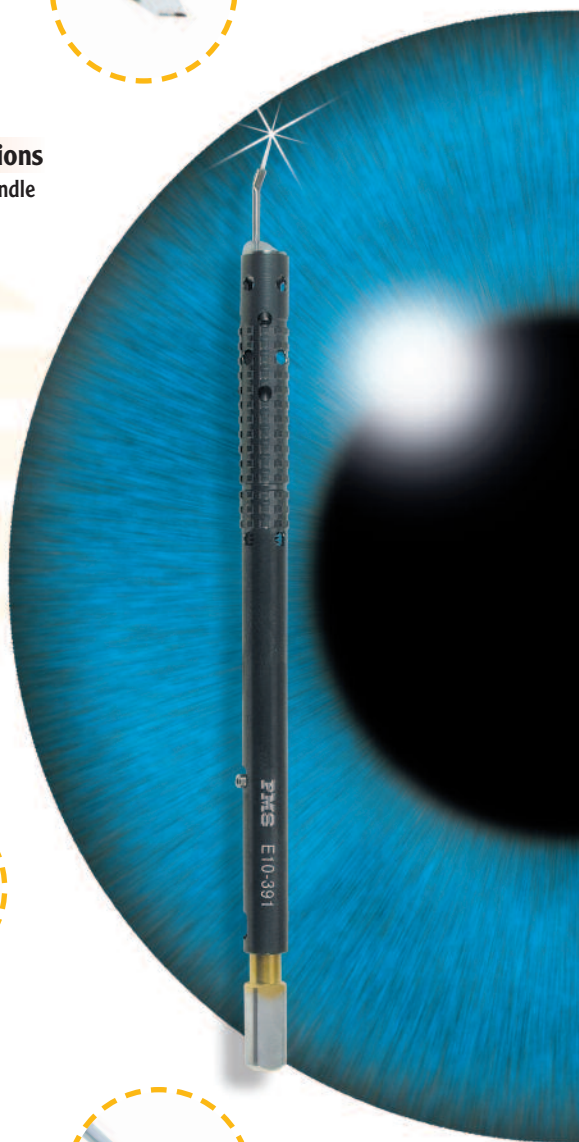
E10-354 2.8-3.2 mm



Diamond Tunnel Knives
crescent shaped (9 facet) blade

E10-391 1.5 mm

E10-392 2.0 mm



CATARACT INSTRUMENTS

Individual Designs and Special Mountings on Request.

DIAMOND KNIVES



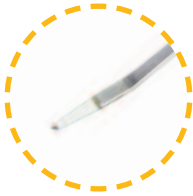
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

Diamond Micro Incision Knives
tapered spear blade (double lancet)

E10-360 0.9-1.2 mm

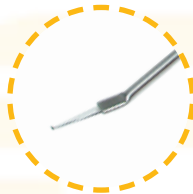
E10-361 1.3-1.5 mm

E10-362 1.8-2.0 mm

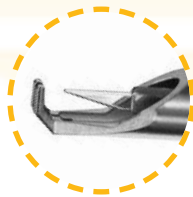


Diamond Zaldivar Style Knife
trapezoid shaped blade,
0.55 - 1.0 mm width,
4.5 mm long

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

CATARACT INSTRUMENTS

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

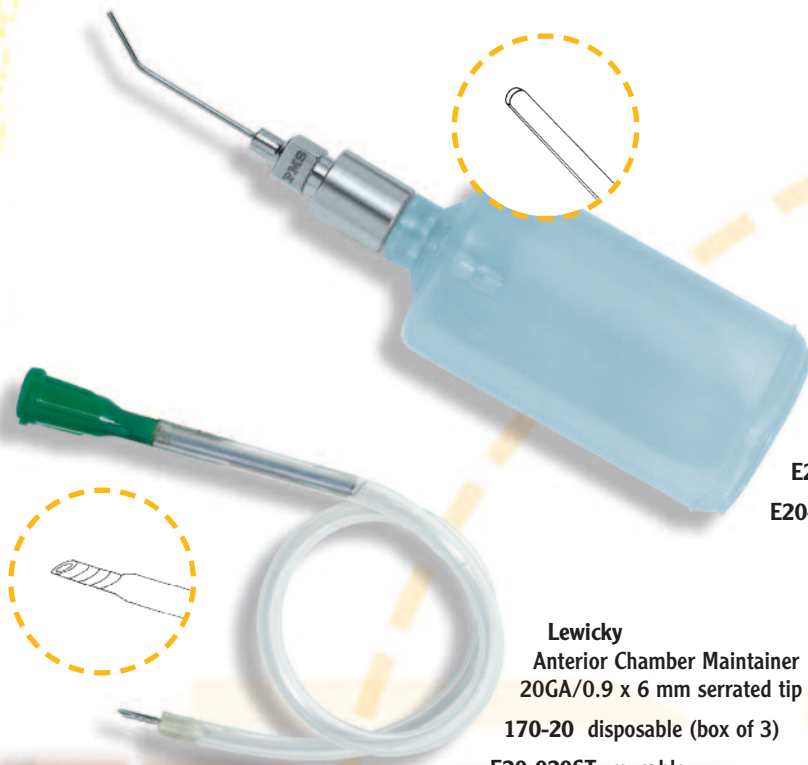
Always ensure that the diamond blade never touches any metal surface. If possible keep your diamond knife separate from other instruments.

CATARACT INSTRUMENTS

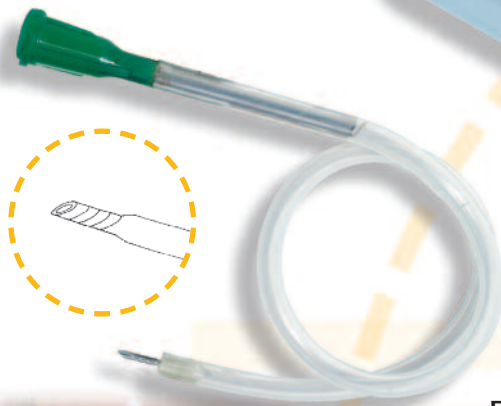


ANTERIOR CHAMBER MAINTAINER

CATARACT INSTRUMENTS

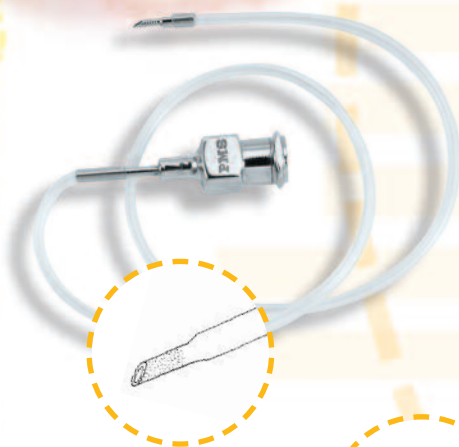


Bishop-Harmon
AC Irrigator System
E20-001 complete
E20-002 silicone bulb
E20-003 LL adaptor
E20-004 19GA cannula

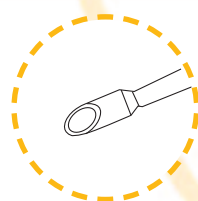


Lewicky
Anterior Chamber Maintainer
20GA/0.9 x 6 mm serrated tip
170-20 disposable (box of 3)
E20-020ST reusable

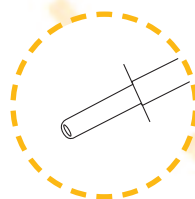
cannula tips of reusable maintainers are attached to
180 mm long silicone tubing with Luer-Lock adaptor



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

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

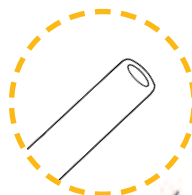
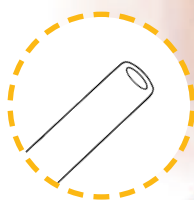
Anterior Chamber Irrigating Cannula

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



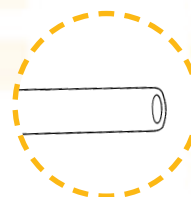
Anterior Chamber Irrigator

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



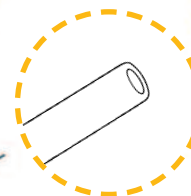
Rycroft

Air Injection Cannula

20 mm tube, angled 5 mm

E20-030 30GA/0.3 mm

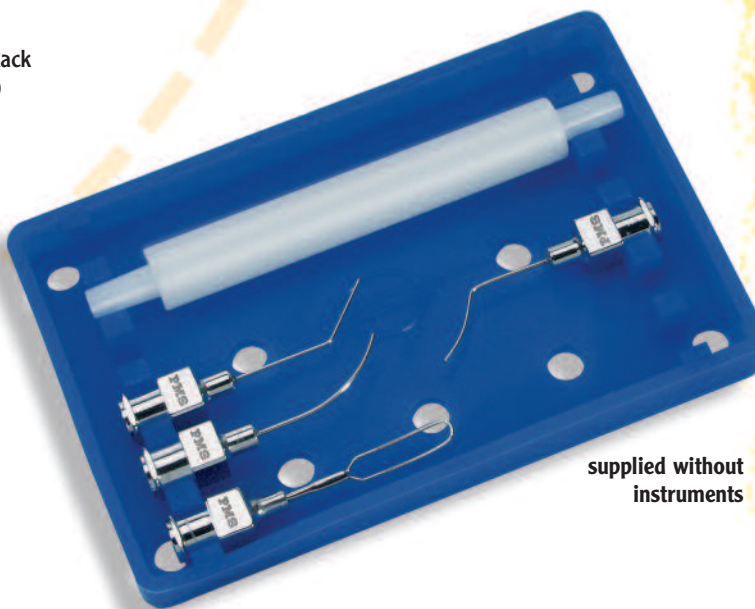
E20-031 27GA/0.4 mm



Silicone Cannula Rack
autoclavable, (85x55x8 mm)

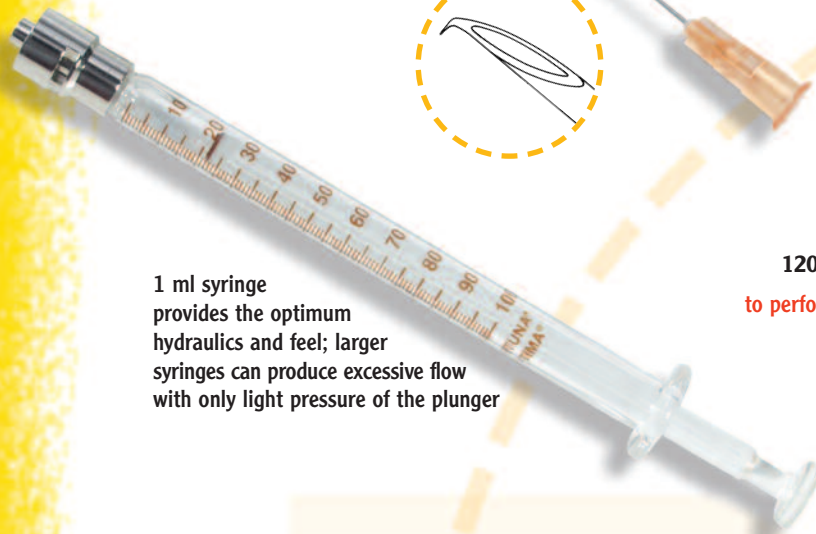
E45-085

for secure positioning of
conventional cannulae
and handpieces



supplied without
instruments

CATARACT INSTRUMENTS



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

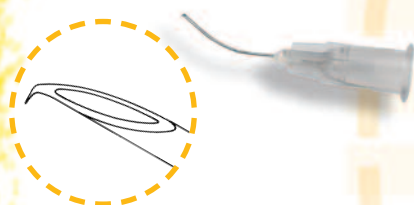
to perform a can-opener technique

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



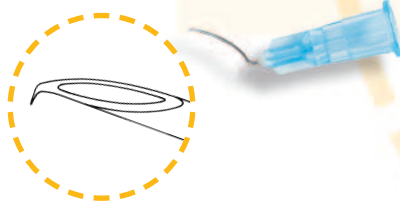
Joyce

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

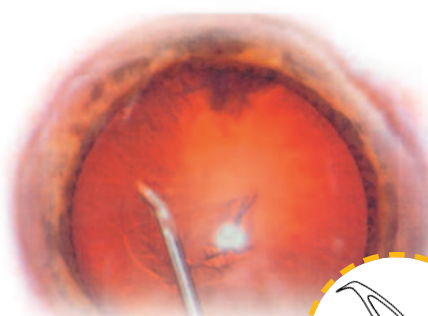
A simple technique is to use a 27 gauge or 30 gauge bent cystotome and directly puncture the clear cornea to create a capsulorhexis without a groove or stab incision. The technique offers savings in instruments and viscoelastics and is ideally suited for bimanual micro incision phaco surgery. For more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

Continuous Curvilinear Capsulorhexis (with cystotome cannula)

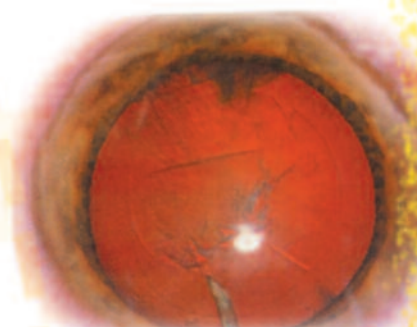
Initiation of a 5 to 6.5 mm continuous curvilinear capsulorhexis (CCC) is performed with a 27 gauge or 30 gauge bent needle. The cystotome is introduced through the side port and creates the first puncture on the center of the anterior capsule and then creates the anterior capsular flap. The anterior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

Continuous Curvilinear Capsulorhexis (with forceps)

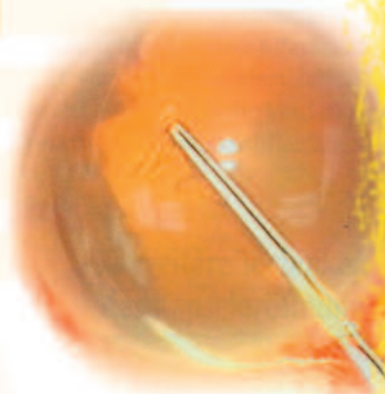
The tips of a capsulorhexis forceps are used to puncture the anterior capsule. A flap is created by grasping the inferior end of the puncture and lifting it anteriorly. The edge of the flap is grasped and then re-grasped in a curved fashion creating a circular tear. **Ideally, the puncture site should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



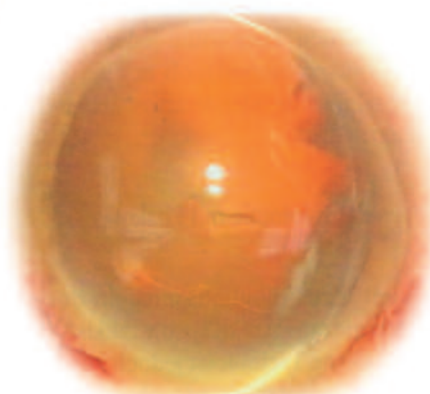
Capsulorhexis in progress using a cystotome cannula



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.

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS



Ultrata
Capsulorhexis Forceps
angled 11 mm shanks,
10.5 cm

E30-581+

TIP DESIGNS



blunt tips
+BL

...grip, lift and pull



sharp tips
+SH

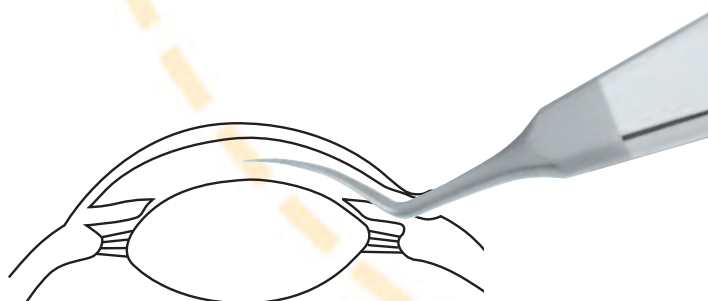
...penetrate and tear

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+

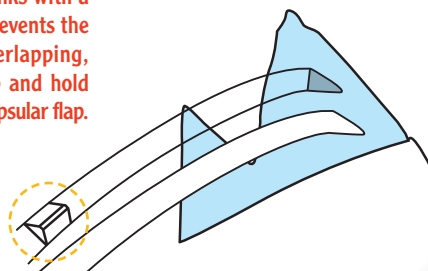


vaulted shaft forceps allow to perform the capsulorhexis
from a more posterior incision without gaping the wound

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

CAPSULOREXIS FORCEPS

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.

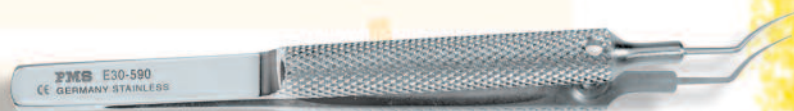


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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



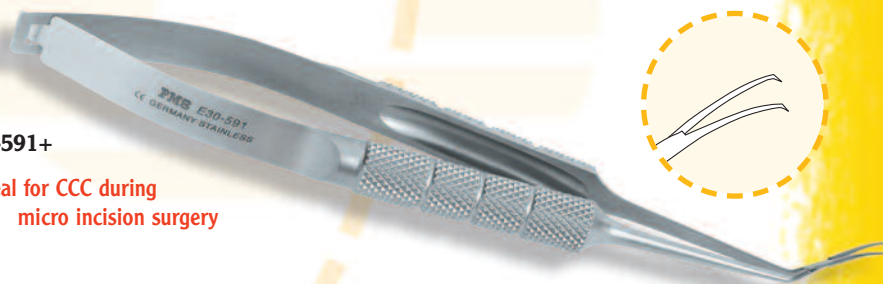
Masket
Capsulorhexis Forceps
vaulted 11 mm shanks,
10.5 cm
E30-590+



Inamura Style
Capsulorhexis Forceps
vaulted 13 mm shanks,
ultra fine tips, 12.0 cm

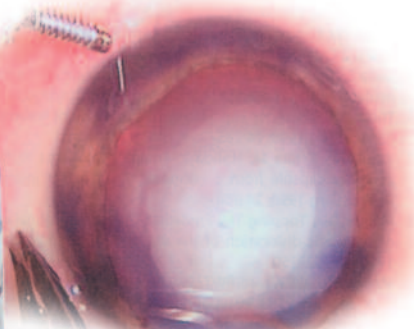
E30-591+

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



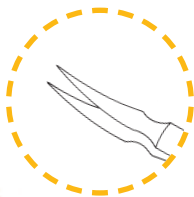
A CCC is performed with the aid of
trypan blue and an ACM inserted
through the paracentesis.

CATARACT INSTRUMENTS



CAPSULOTOMY SCISSORS

ideal for cutting the anterior capsule, ...

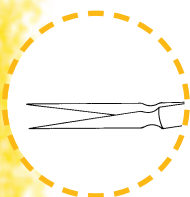


Vannas
Capsulotomy Scissors
5 mm blades, sharp tips, 8.2 cm

E25-400 straight

E25-401 curved

E25-405 angled

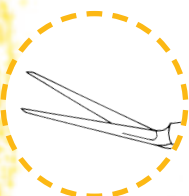


Gills-Vannas
Capsulotomy Scissors
7 mm blades, sharp tips, 8.2 cm

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



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.

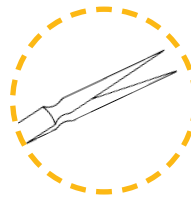
CAPSULOTOMY SCISSORS

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

snips capsule tags, iris, cornea and membranes



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

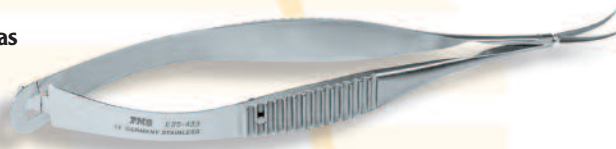
E25-430 straight

E25-431 curved



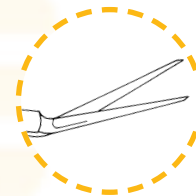
Uthoff-Vannas
Capsulotomy Scissors
very thin 10 mm blades,
strong curve, blunt tips,
8.2 cm

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

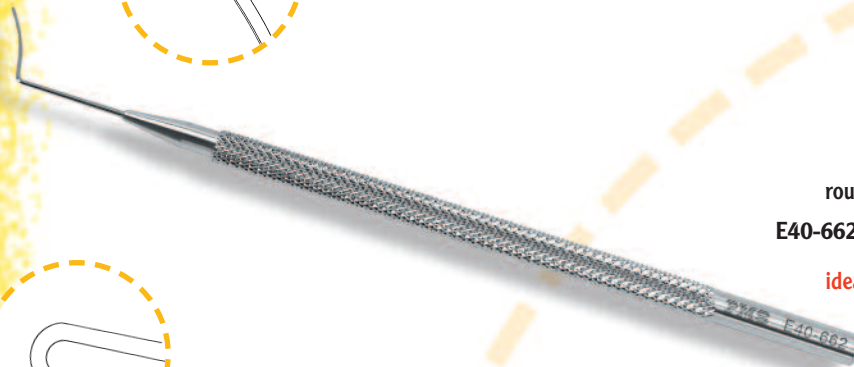
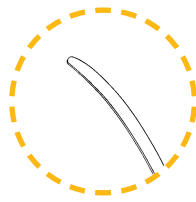


*also available on round titanium handle, please add "T" to cat. no.

CATARACT INSTRUMENTS

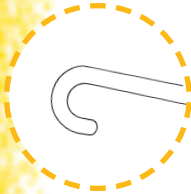
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

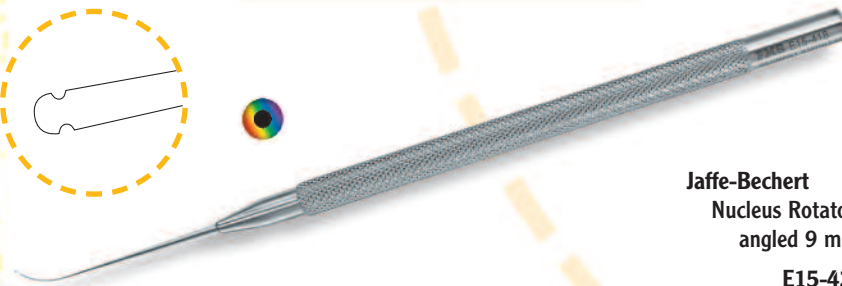
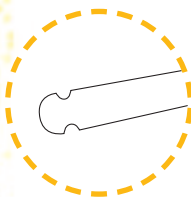
used to retract the iris
and anterior capsule, supports nucleus delivery



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

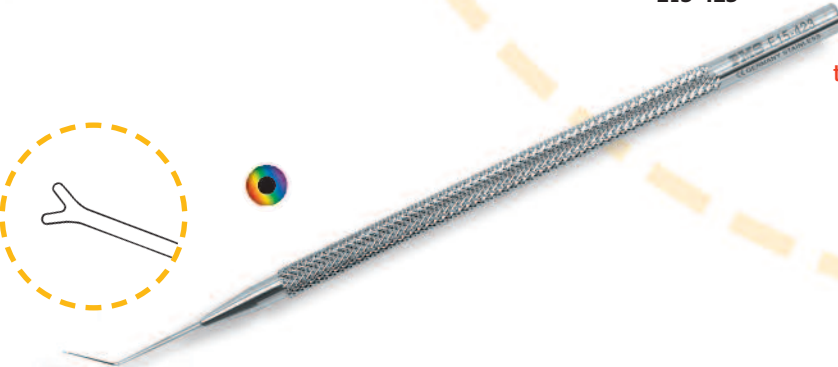
E15-466

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



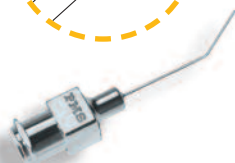
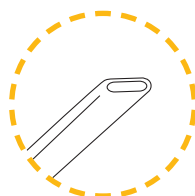
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

Rainin
Irrigating Cannula
20 mm tube, angled 7 mm
horizontal flattened tip

E20-033 30GA/0.3 mm

E20-034 27GA/0.4 mm

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



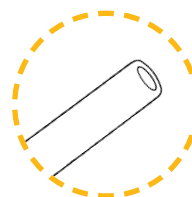
Gill
Cortex Aspiring Cannula
25GA/0.5 x 20 mm tube,
angled 5-9 mm round tip:

E20-164 5 mm

E20-167 7 mm

E20-169 9 mm

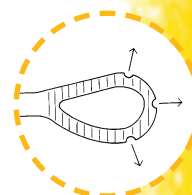
used to remove the anterior cortex and
epinucleus through a side port incision



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

E20-231

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



Irrigating Vectis
25GA/0.5 x 35 mm tube,
with 0.3 front opening port,
single use, sterile (box of 10)

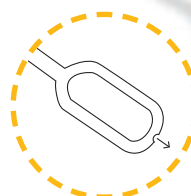
140-25-1 1 open port

140-25-2 2 open ports

140-25-3 3 open ports



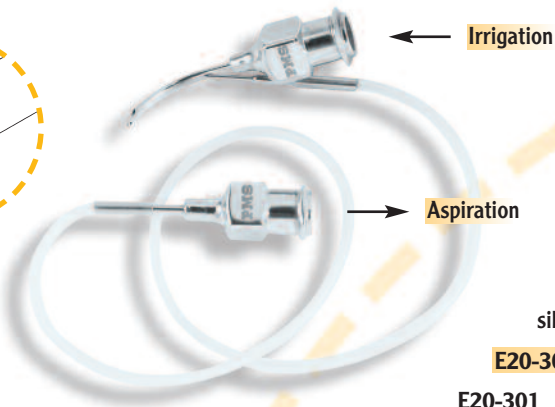
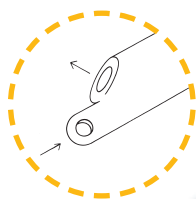
photo representation of lens nucleus removal



CATARACT INSTRUMENTS



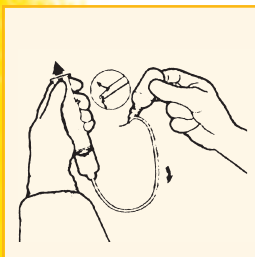
IRRIGATION AND ASPIRATION CANNULAE



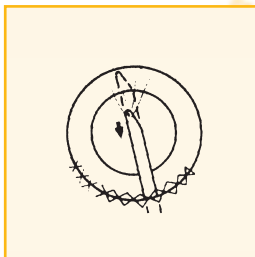
Simcoe (Reusable)
Double I and A Cannula
23/23GA x 15 mm tube,
0.3 mm aspirating port with
silicone tubing and LL adaptor

E20-300 original model

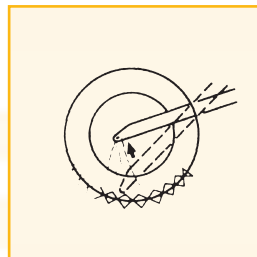
E20-301 reverse model



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



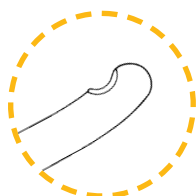
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

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

E20-151 13 mm

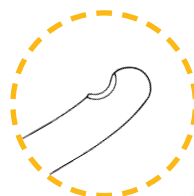
E20-152 21 mm



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

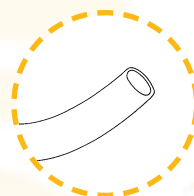


curved cannulae are very popular for aspirating
difficult 12 o'clock cortex through a paracentesis

Charleux (Reusable)
Cortex Aspiring 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

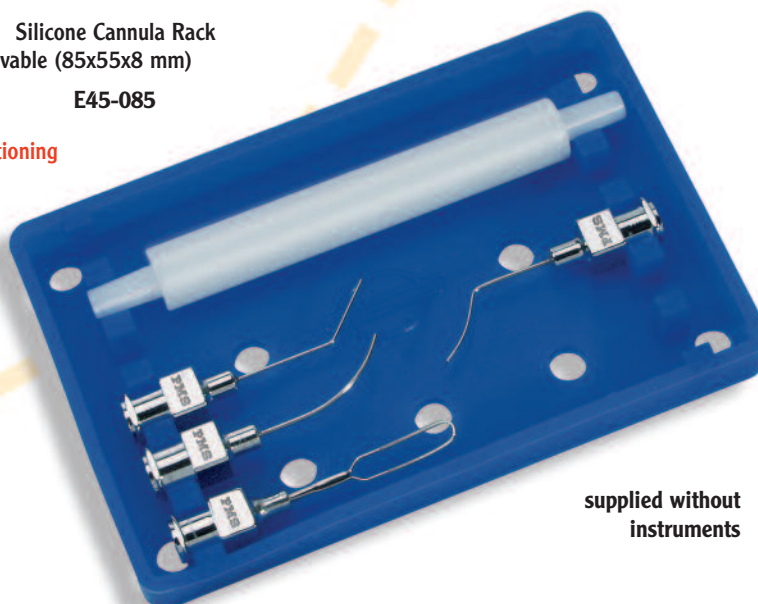
E20-881 for aspirating
male/male Luer slips, 7.5 cm



Silicone Cannula Rack
autoclavable (85x55x8 mm)

E45-085

for safe and selective positioning
of conventional cannulae
and handpieces

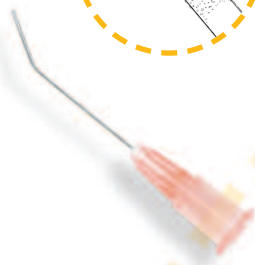
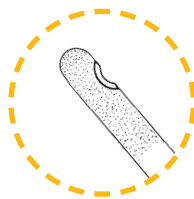


supplied without
instruments



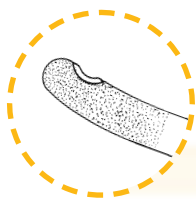
CAPSULE POLISHING CANNULAE

CATARACT INSTRUMENTS

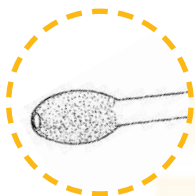


Kratz
Capsule Polisher
25 mm tube, angled 8 mm,
rough tip, 0.3 mm top port
125-21 21GA/0.80 mm
125-24 24GA/0.55 mm

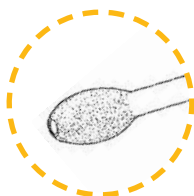
sandblasted and roughened tips allow controlled
polishing of posterior capsule, scraping and aspiration
of lens epithelial cells from the capsular bag



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

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

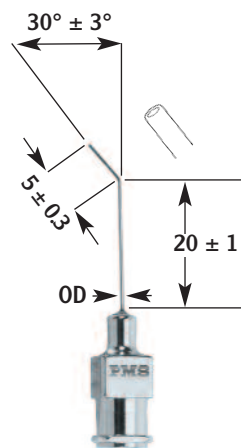
Blue
23GA/0.60 mm, ID 0.33 mm

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

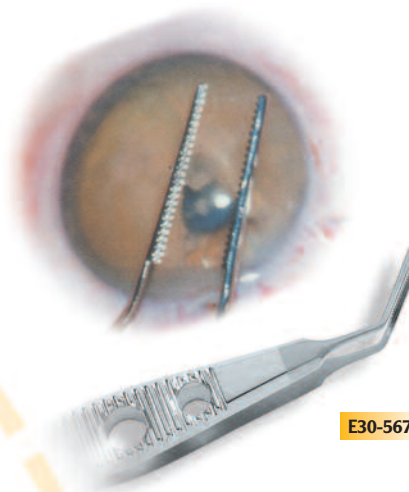
E35-132 Castroviejo Needle Holder, page 25

E35-231 Micro Needle Holder, page 25



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



E30-567

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)

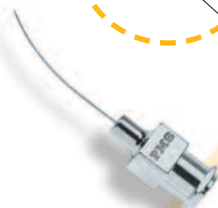
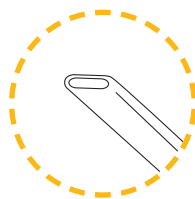


E45-113



PHACO CHOICES - HYDRODISSECTION CANNULAE

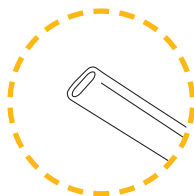
CATARACT INSTRUMENTS



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

E20-201 reusable

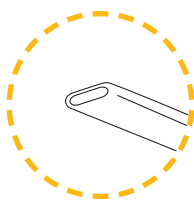
118-27 disposable



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

E20-203 reusable

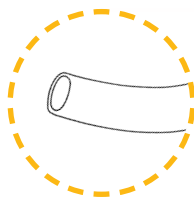
118-27S disposable



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

E20-205

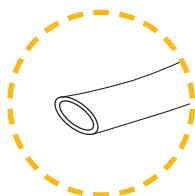
Flattened tip cannulae allow for smooth insertion beneath the capsulorhexis edge. Fluid is distributed in a fan-like effect all around the capsular bag for effective hydrodissection.



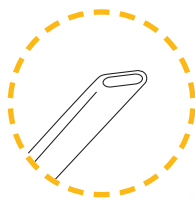
Kellan
Hydrodissection/Hydroelineation Cannula
25GA/0.5 x 20 mm curved tube

E20-211 flattened blunt tip
for hydrodissection

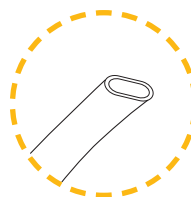
E20-213 bevelled blunt tip
for hydroelineation



disposable cannulae, sterile, 10 per box



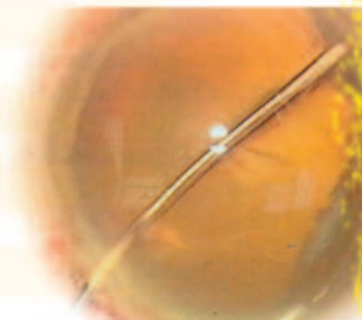
Hydrodissection Cannula
25 mm tube, angled 7 mm flat tip
113-25 25GA/0.5 mm
113-27 27GA/0.4 mm



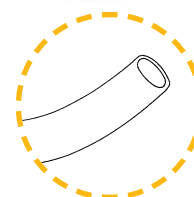
Nichamin
Nucleus Hydrodissector
25 mm tube, formed 12 mm flat tip
113-25F-12 25GA/0.5 mm
113-27F-12 27GA/0.4 mm



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.

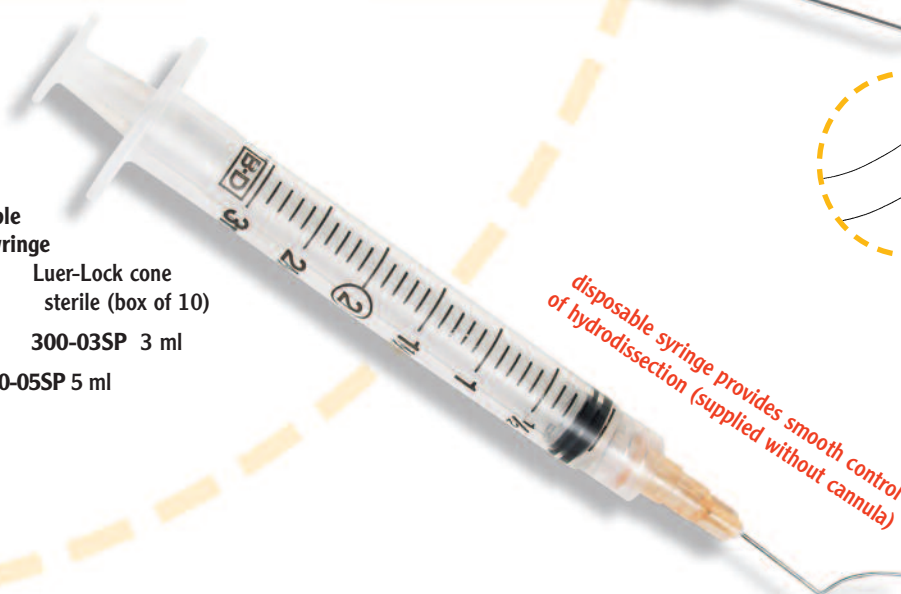


Tübingen
Hydrodissection Cannula
25 mm tube, curved round tip
313-27 27GA/0.4 mm
313-30 30GA/0.3 mm



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

PHACO CHOICES - 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



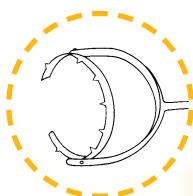
Fyodorov

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

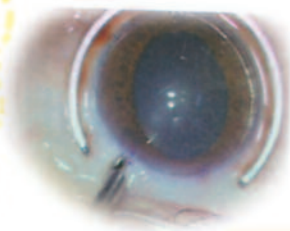
3/4 open swivel ring, with
multiple blunt teeth,
13.0 cm

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

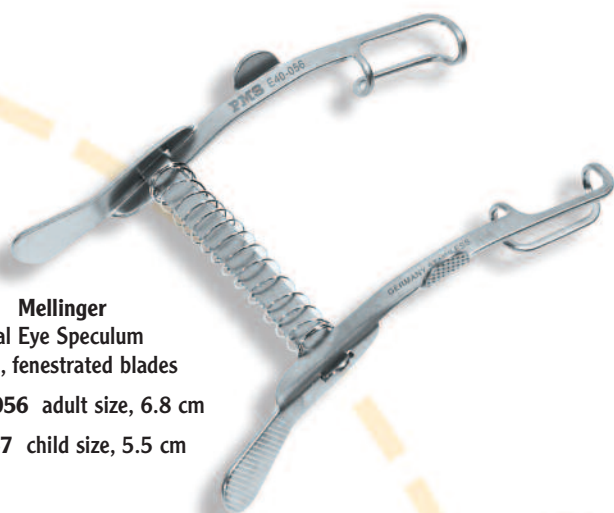
Ring, 3/4 open swivel

ring, blunt teeth on both sides,
13 mm ID, 13.0 cm

E10-517

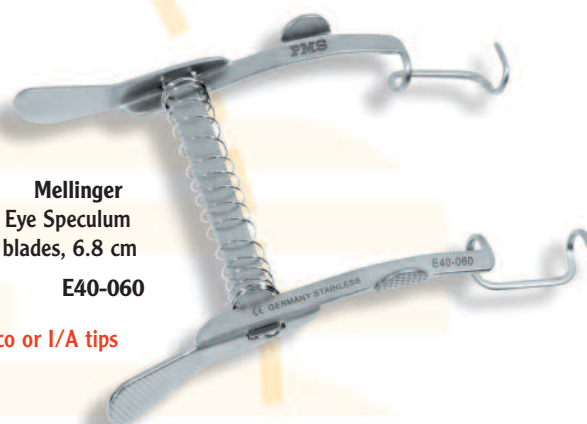
for stabilizing either the
right or the left eye
during LASIK

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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

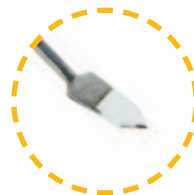
PHACO CHOICES - DIAMOND KNIVES

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.

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



Diamond Trapezoid Knives
taped spear shaped blade
(double lancet)

E10-352 2.0-2.3 mm

E10-353 2.6-3.0 mm

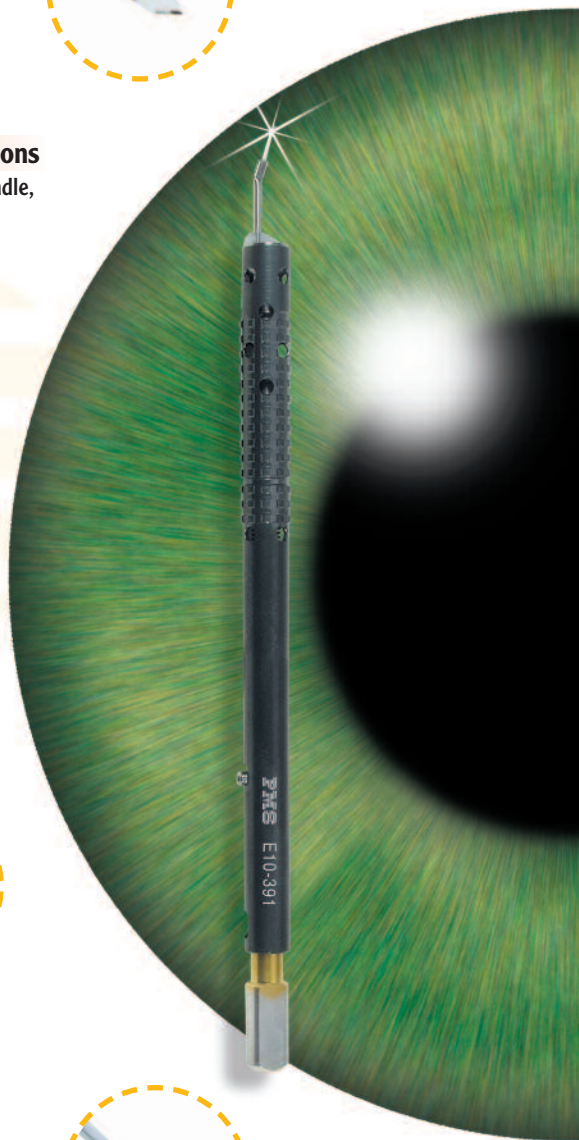
E10-354 2.8-3.2 mm



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.

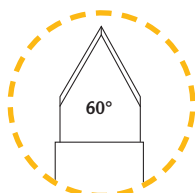
PHACO CHOICES - SAPPHIRE KNIVES

PMS

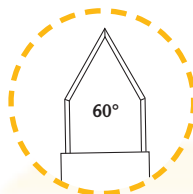


New

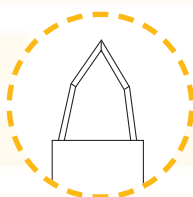
EXCELLENT BACK UP for
expensive diamond knives



blade shapes	width in mm	removable holder with sapphire blade
Lancet	2.8	E10-2222
	3.0	E10-223
	3.2	E10-224



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



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

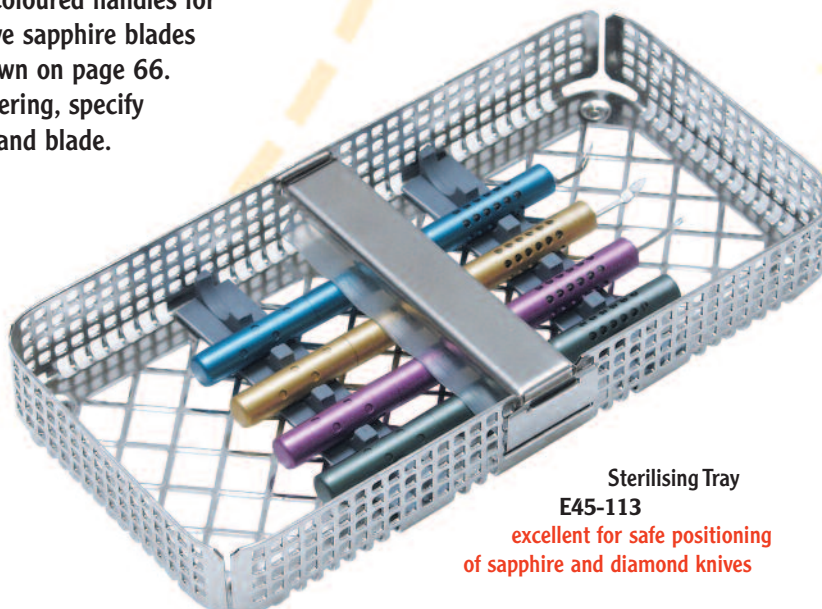


Crescent	1.5	E10-291
	2.0	E10-292
	2.8	E10-293

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.

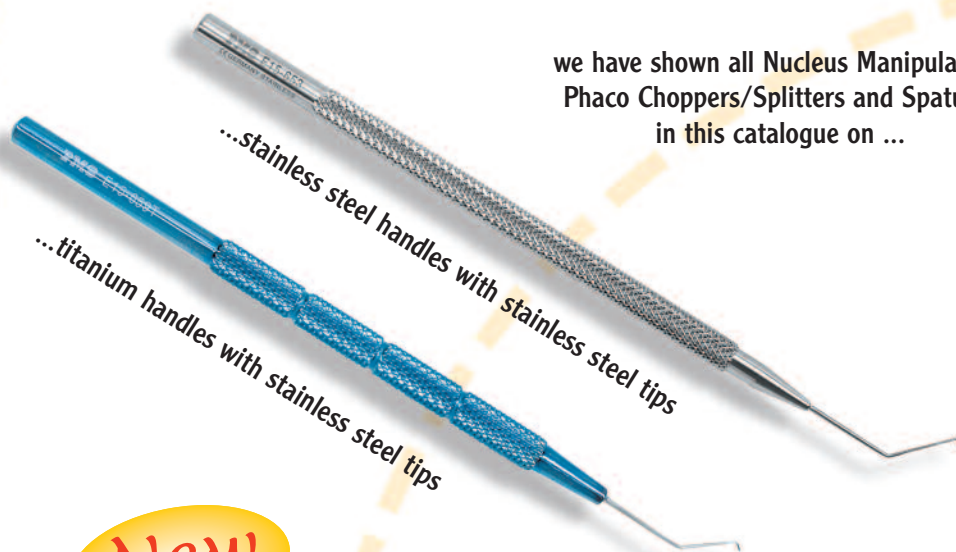


Sterilising Tray
E45-113
excellent for safe positioning
of sapphire and diamond knives

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 removable
instrument tips from the most popular sideport instruments for Phaco Surgery



FEATURES AT A GLANCE:

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

Product code for handles only

E15-100 AY yellow

E15-100 AR red

E15-100 AG green

E15-100 AB blue

E15-100 AP purple



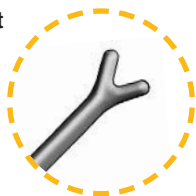
Do not use acid or alkali detergents or any kind
of abrasives for cleaning the aluminium handle.
Never use balanced salt solution for rinsing.



Fukasaku
Phaco Splitter and Iris Pusher
E15-653R



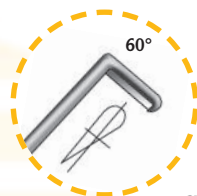
Rosen
Phaco Splitter
E15-655R



Jaffe-Bechert
Nucleus Rotator
E15-423R



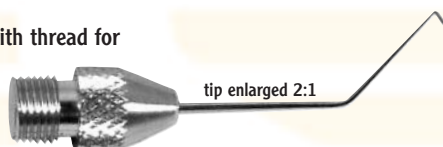
Drysdale
Nucleus Manipulator
E15-465R



Nagahara
Phaco
Chopper

E15-656R 60° cutting edge
E15-659R 90° cutting edge

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



Koch
Phaco
Chopper
E15-657R



Chang
Nucleus Manipulator
E15-464R



Barrett
Nucleus Rotator/
Manipulator
E15-466R



Seibel
Phaco Chopper
E15-669R

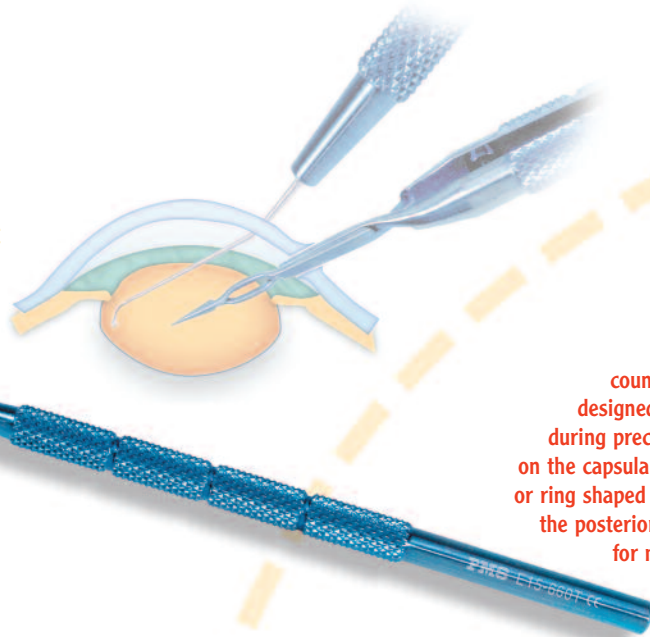
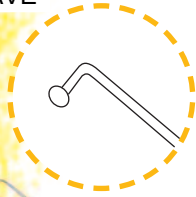


"Connor Wand"
Nucleus Manipulator
E15-467R

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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS



N u c l e u s
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

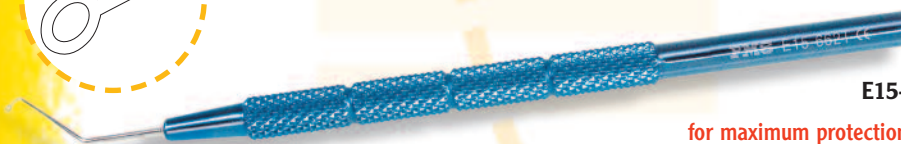
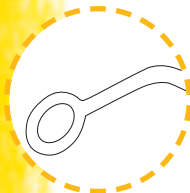
helps to reduce the stress on the capsular bag and zonules

**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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

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

Prechopper

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

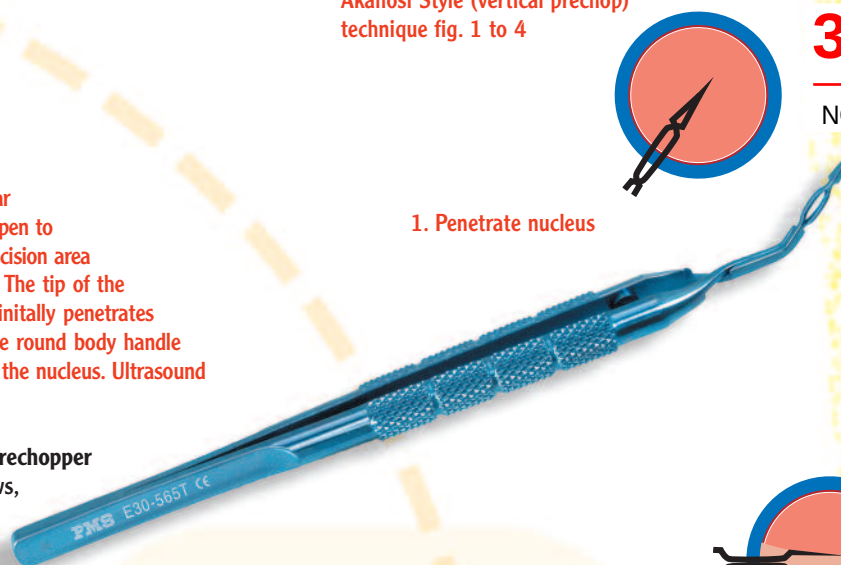
Universal Prechopper

paddle style jaws,
sharp tips, 12.2 cm

E30-564T straight

E30-565T angled

for medium to hard nucleus



1. Penetrate nucleus

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



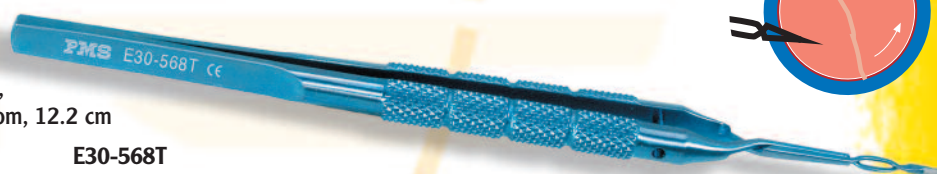
2. Split nucleus in two

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



3. Rotate each half 90°

Hybrid Prechopper

hooked jaws with
sharp angular edge,
12.2 cm

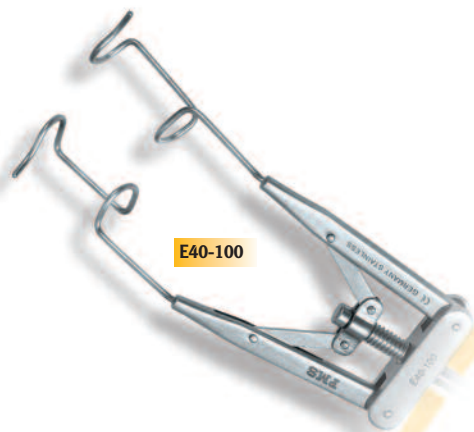
E30-569T

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

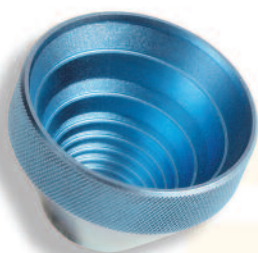


4. Split the halves into quarters

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

E30-566T

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

E30-623S

FOR FOLDABLE LENS IMPLANTATION

LP604240M Viscoject® Cartridge, page 126

E30-651 Lens Injector, page 126

E30-651

FOR SMALL PUPIL MANAGEMENT

E15-573 Pupil Dilator, page 106

IRIS-1000 Iris Retractor, page 107

E15-573

MISCELLANEOUS PRODUCTS

30601 Eye Spears, page 27

Sterilising Trays (see section)

30601

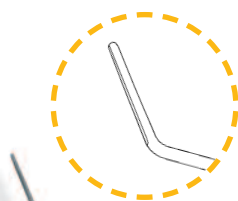


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

PHACO CHOICES - MANUAL FRACTURE INSTRUMENTS

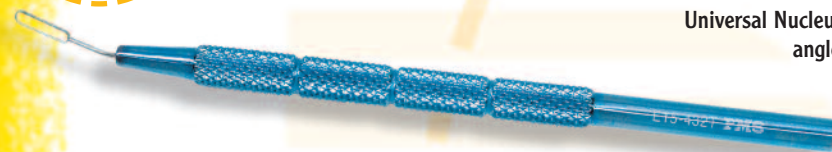
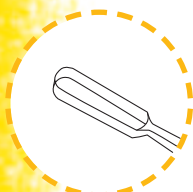
CATARACT INSTRUMENTS

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



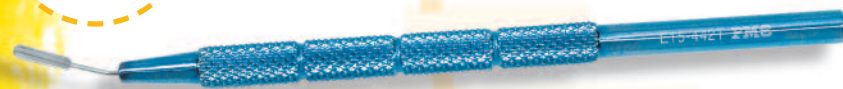
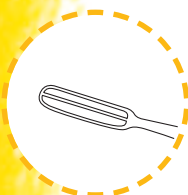
Kansas-Alfonso
Nucleus Bisector
angled 10 mm blade,
sharp cutting edge on
the vertical plane,
11.0 cm
E15-431T

used to split the nucleus in two parts



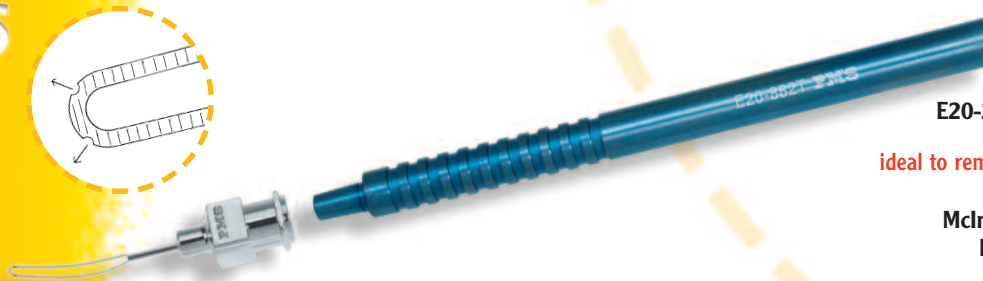
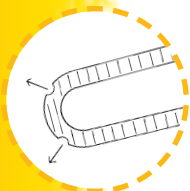
Kansas-Alfonso
Universal Nucleus Trisector
angled semicircular blade with
sharp cutting edges, 11.0 cm
E15-432T 1.5 mm wide
E15-433T 2.5 mm wide

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.

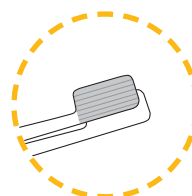


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

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

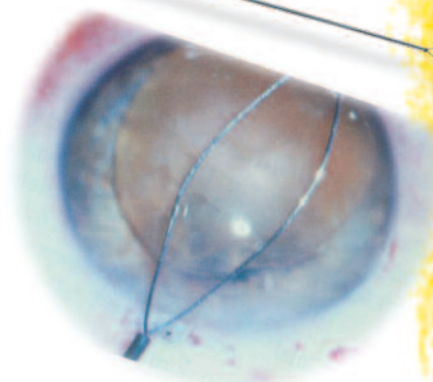
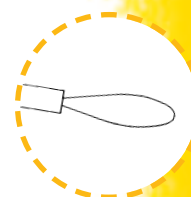
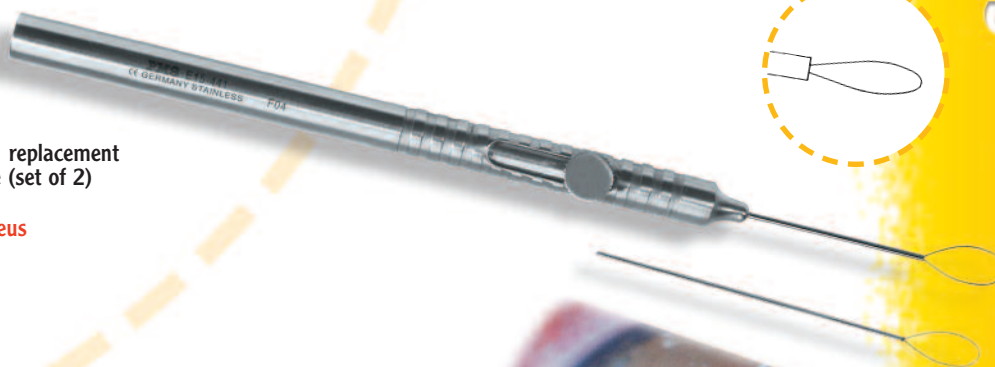


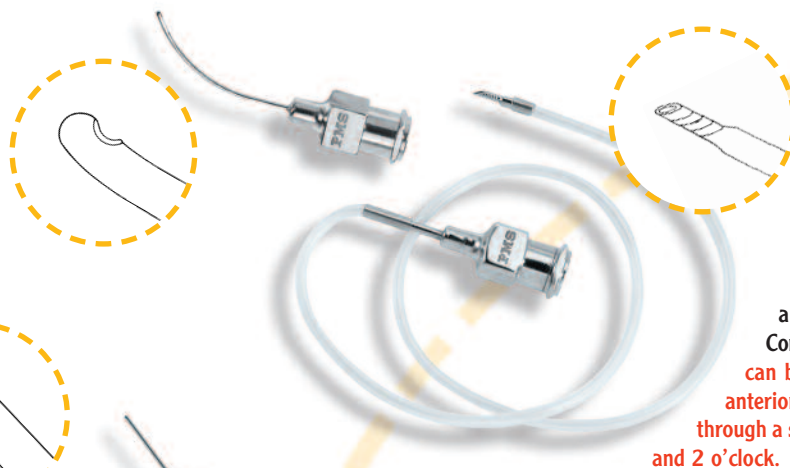
Keener
Lens Nucleus Divider
with set of snare wire

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 Aspiring 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 Aspiring 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.



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

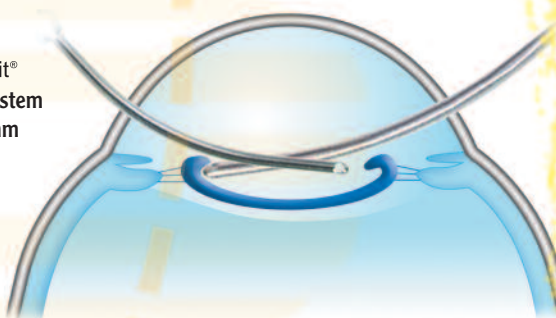
cannulae and connectors have coloured rings:
BLUE stands for irrigation - **RED** for aspiration

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

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

EZFit®
Bimanual I/A Cortex Removal System
consisting of 1 piece each 21GA/0.8 mm
Irrigating cannula, dual 0.4 mm side ports,
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

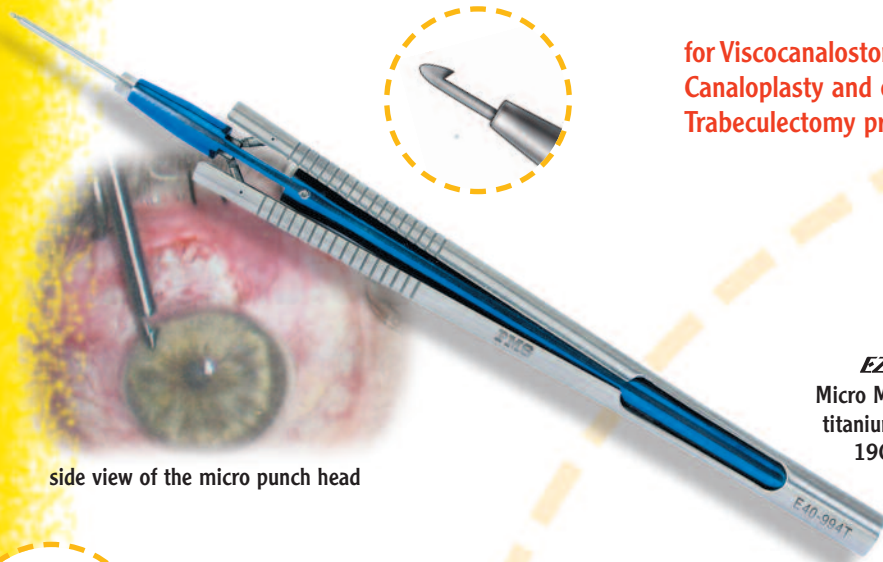
*disposable products, sterile, 10 per box

CATARACT INSTRUMENTS



PHACO CHOICES - TODAY'S GLAUCOMA INSTRUMENTS

CATARACT INSTRUMENTS



side view of the micro punch head

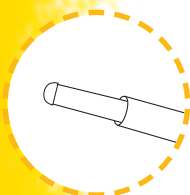
for Viscocanalostomy,
Canaloplasty and other
Trabeculectomy procedures

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



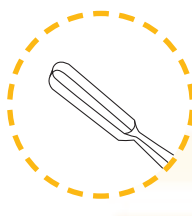
EZCut®

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

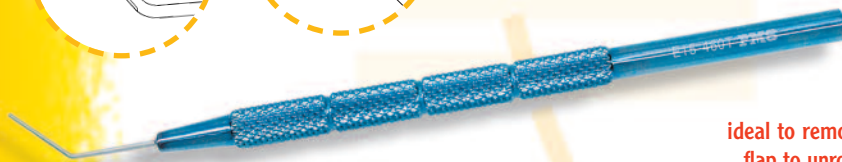
E15-221T

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



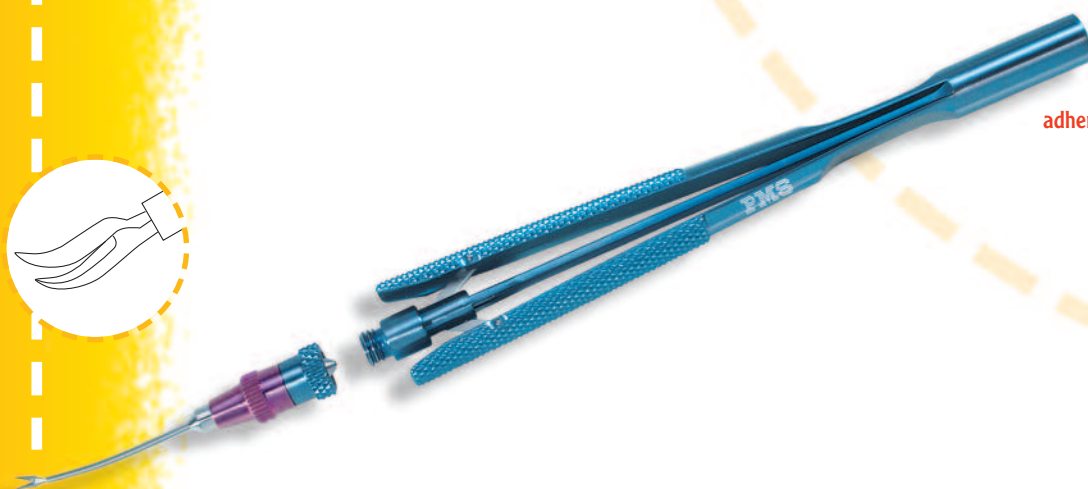
Nishi Style

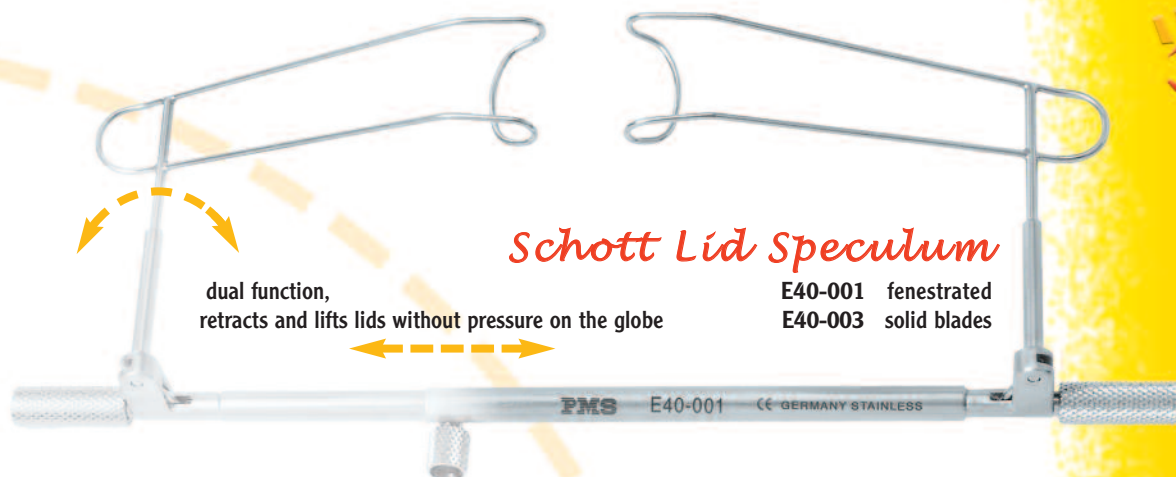
Schlemm's Canal Scissors

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.

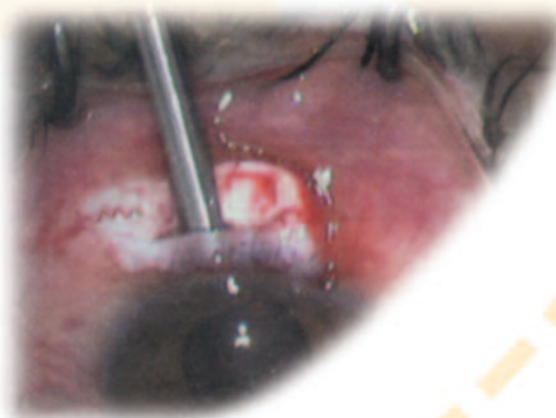


image of punch head
in cutting position

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

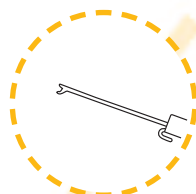
14-5004 Cautery Pencil, see MVR section

E45-321 EZLoad® Sterilisation Container

E45-111 EZWash® Sterilising Tray



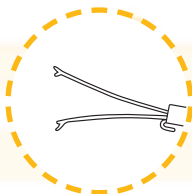
Beehler Style Small Pupil Dilators



for micro incision

20GA/0.9 mm straight tube,
1 finger for 2 points dilation

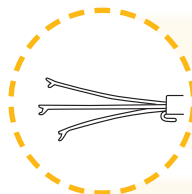
E15-571



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

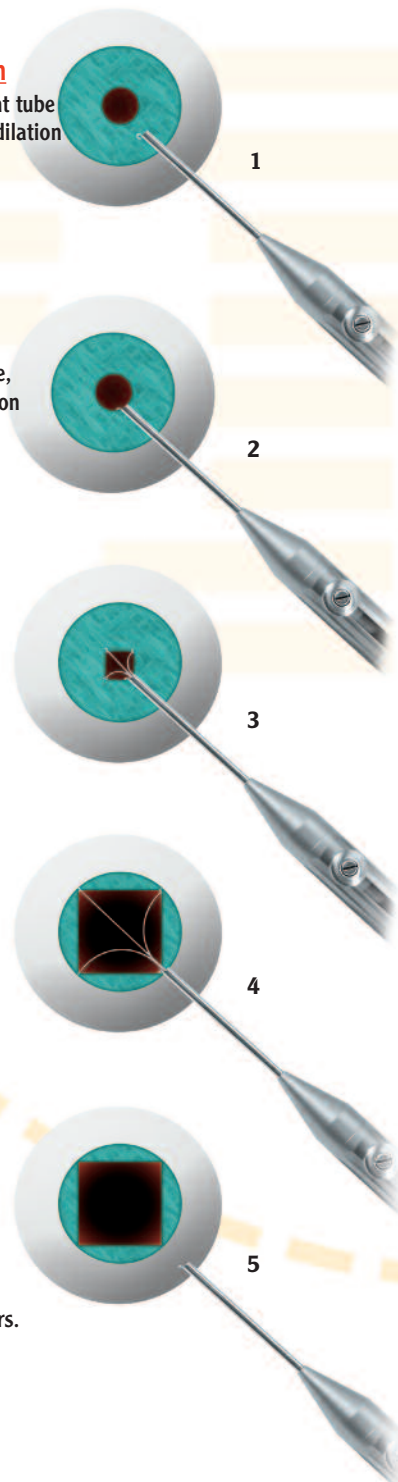
NOTE:

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

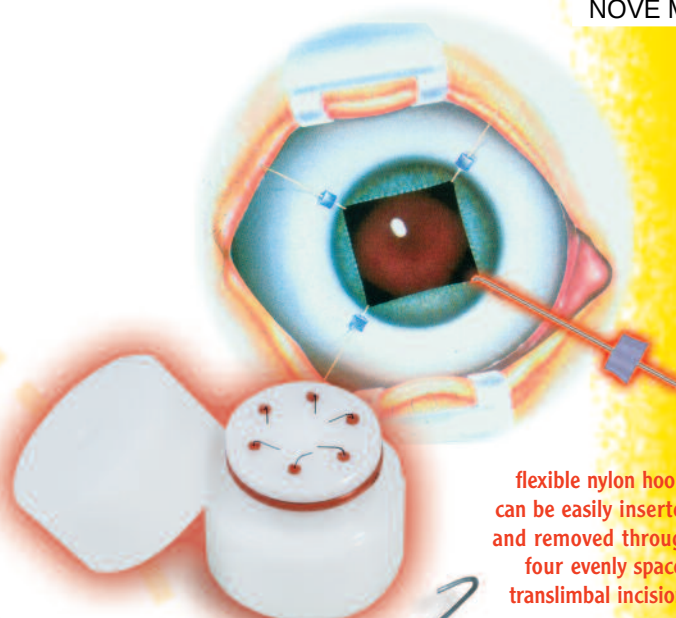
*IRIS-1000 reusable (6 pcs) in autoclavable case

**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.

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

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



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

all **MEDICAL GRADE** materials

Video available

Iridectomy Instruments for

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



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

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



CATARACT INSTRUMENTS

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.

**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.

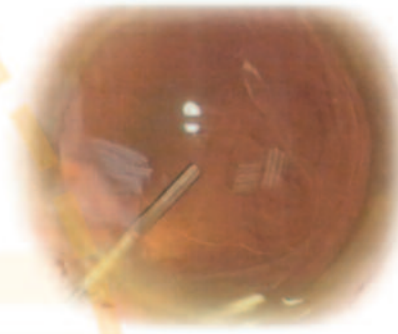
Capsular Rupture

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.



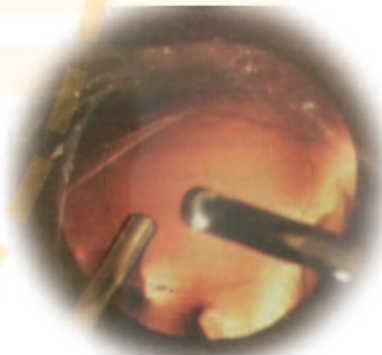
Cortical Removal

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).



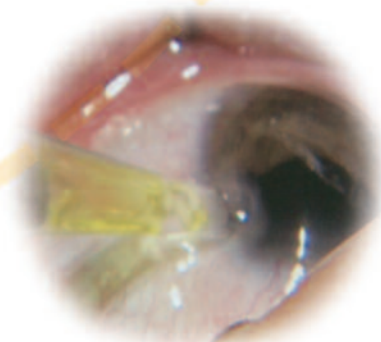
Bimanual Vitrectomy

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.

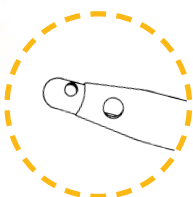


The PMS **EZLock®** I/A Tip System

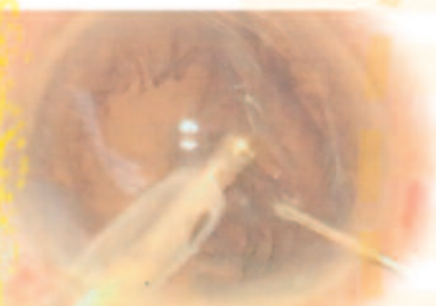
for easy and effective cortex removal



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



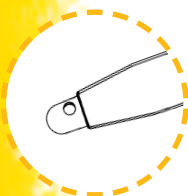
aspiration of epinucleus with E20-403S I/A tip

EZLock®
Aspirating Tips without
silicone irrigation sleeve
E20-403ELS straight
E20-403ELA angled 45°



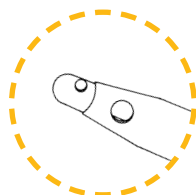
provides tight seal around wound
and anterior chamber stability

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.



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

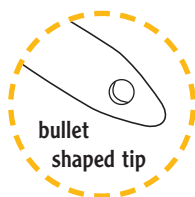


CATARACT INSTRUMENTS

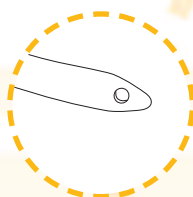


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

IRRIGATION



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



EZFlo®

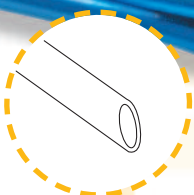
Irrigation Handpiece

21GA/0.8 x 17 mm round cannula,
dual 0.5 mm side open ports

E20-441 smooth tip

E20-442 rough tip

bullet shaped tip for easy entry through 1.2 mm paracentesis



EZFlo®

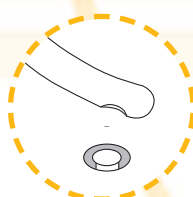
Irrigation Handpiece

20GA/0.9 x 17 mm round cannula

E20-446 0.6 mm front port

E20-447 dual 0.65 mm side ports

20GA cannulae with large ports for maximum irrigation



EZFlo®

Irrigation Handpiece

0.55 x 0.95 x 17 mm elliptical cannula,
smooth tip with 0.55 mm anterior port

E20-445

oval, smooth tip for improved wound seal



EZFlo®

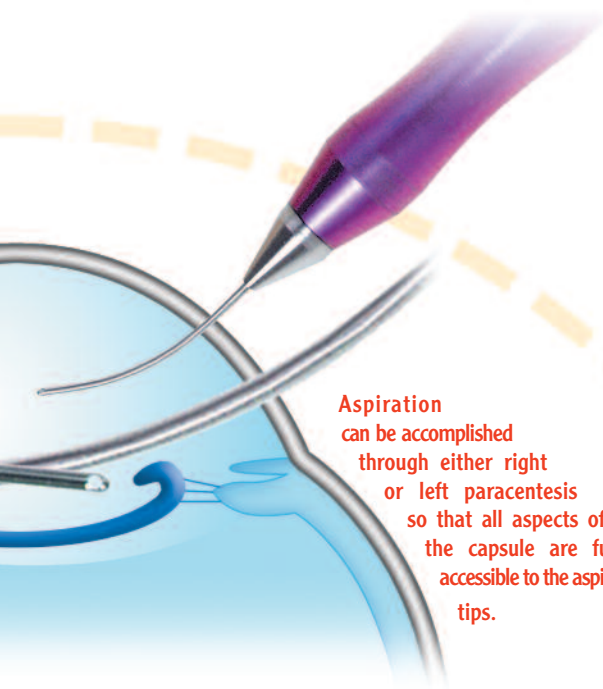
Irrigation Handpiece

male/female Luer fittings

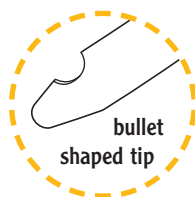
E20-440

for standard reusable and
disposable cannulae

CATARACT INSTRUMENTS



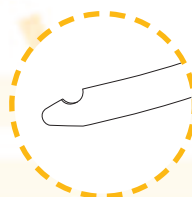
Aspiration
can be accomplished
through either right
or left paracentesis
so that all aspects of
the capsule are fully
accessible to the aspirating
tips.



ASPIRATION

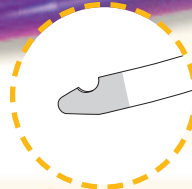
3B instruments
 — lékařské nástroje —
 NOVÉ MĚSTO NA MORAVĚ

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



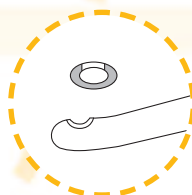
for standard aspiration procedures

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



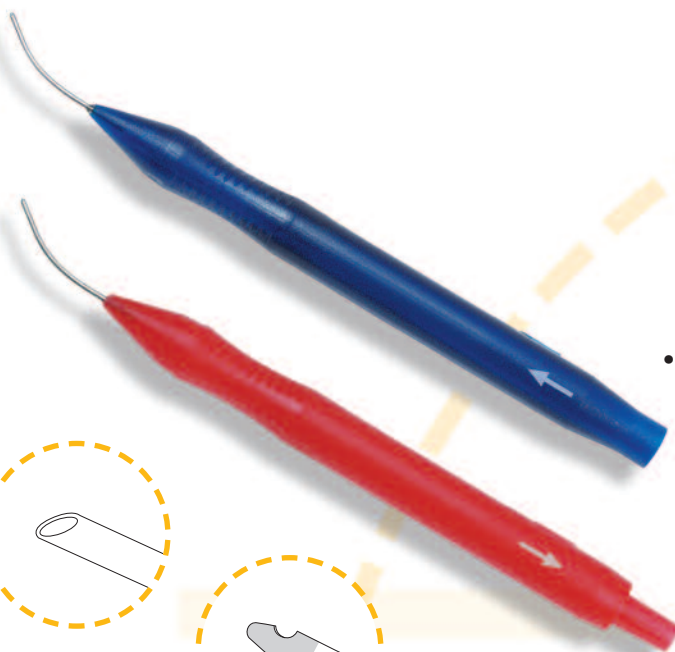
for standard reusable and
disposable cannulae

CATARACT INSTRUMENTS



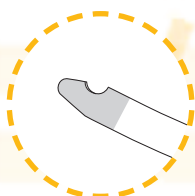
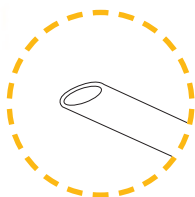
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

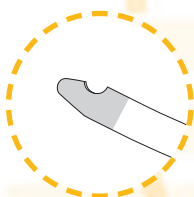
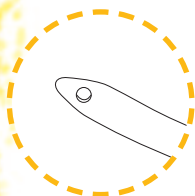


FEATURES AT A GLANCE

- 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.



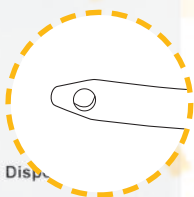
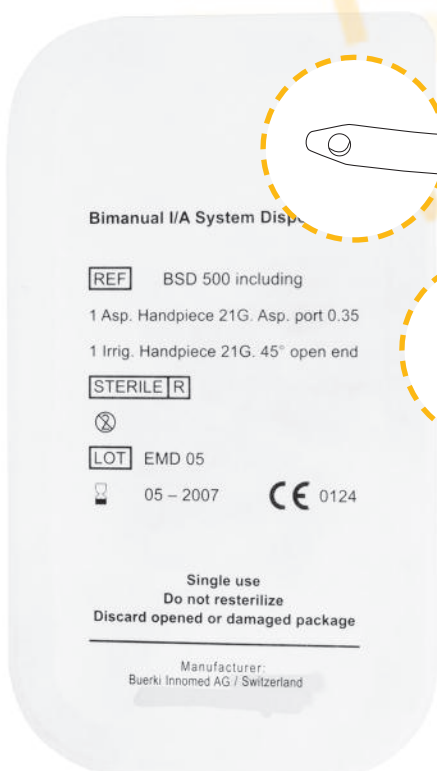
Bimanual I/A System 21GA/0.8 mm complete, consisting of 1 piece each:
Irrigating handle, 45° front open port
Aspirating handle, 0.35 mm top open port
BSD 500 system with rough aspirating tip



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

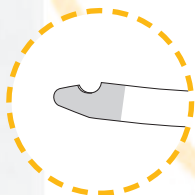
BSD 515 system with smooth aspirating tip



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...

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

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

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

CATARACT INSTRUMENTS



**Your favourite Phaco Chopper
is now available with irrigation!**

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS

stainless steel tips are
welded for extra
durability...



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



EZFlo®
Nichamin Irrigating Chopper
“Quick Chop”, wedge shaped tip



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



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



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

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

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	≠0.9 mm	≠0.5 mm	1 x Ø 0.5 mm	52/min
E20-485	Rosen, front port	20	≠0.9 mm	≠0.5 mm	1 x Ø 0.5 mm	52/min
E20-486	Nagahara 60°, front port	20	≠0.9 mm	≠0.5 mm	1 x Ø 0.5 mm	55/min
E20-487	Nagahara 60°, dual side ports	20	≠0.9 mm	≠0.5 mm	2 x Ø 0.5 mm	50/min
E20-489	Nagahara 90°, front port	20	≠0.9 mm	≠0.5 mm	1 x Ø 0.5 mm	55/min
E20-493	Nichamin, front port	18	≠1.2 mm	≠0.8 mm	1 x Ø 0.8 mm	75/min
E20-495	Rosen, front port	18	≠1.2 mm	≠0.8 mm	1 x Ø 0.8 mm	75/min
E20-496	Nagahara 60°, front port	18	≠1.2 mm	≠0.8 mm	1 x Ø 0.8 mm	75/min
E20-497	Nagahara 60°, dual side ports	18	≠1.2 mm	≠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.

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

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

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

tip enlarged 2:1

Video available

CATARACT INSTRUMENTS



IRRIGATION/ASPIRATION SYSTEM

CLEANING AND MAINTENANCE

- Monomannual 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)

- Monomannual 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.

CATARACT INSTRUMENTS





3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

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, per-
forming 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**

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

Curved shafts for a more comfortable approach.

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**

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

Recessed jaws for improved sub-incision flap purchase.

CATARACT INSTRUMENTS

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

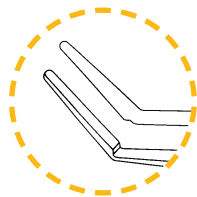
Brief Description	Product No. (complete)	Product No. (tip only)
Alio Scissors	E25-623A	E25-623R
Alio II Forceps	E30-623A	E30-623R
Fine-Ikeda Forceps	E30-624F	E30-624R
Ikeda II Forceps	E30-625I	E30-625R

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

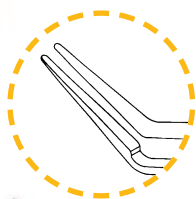


IOL INSTRUMENTS - PMMA LENS FORCEPS

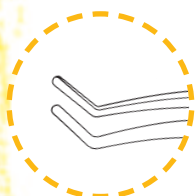
Gold-plated handles
for easy identification.



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

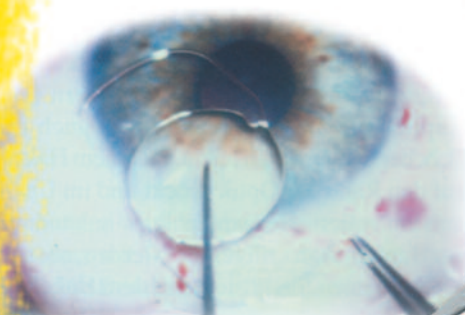


EZHold®
Bechert-McPherson
Lens Holding Forceps
angled 10 mm smooth jaws
with platform, 10.5 cm
***E30-465**



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

for superior approach, enables easy
implantation of haptic and optic



forceps grasping approximately half
of lens optic for easy implantation



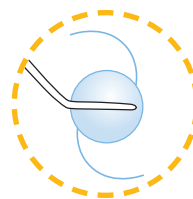
EZHold®
Blaydes Style
Lens Forceps
narrow smooth
jaws, 11.0 cm
***E30-623**

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



Highly polished jaws
prevent damage to the optic surface.

HOLD



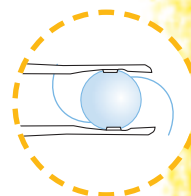
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

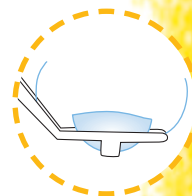


EZFold®
Livernois IOL Folding Forceps
angled 10 mm smooth paddle jaws,
concave inside surfaces, 10.5 cm
E30-661

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

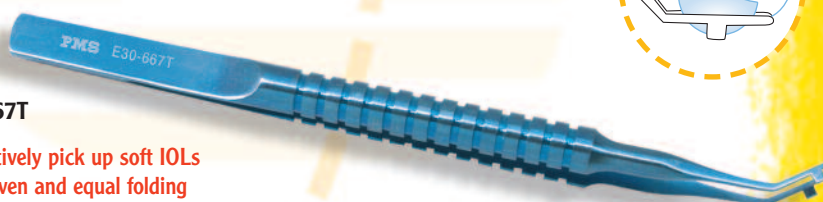


FOLD

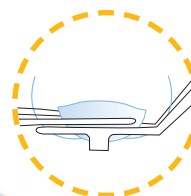


EZFold®
Seibel Foldable Lens Loader
angled 12 mm smooth paddle jaws,
straight inside surfaces, 11.0 cm
E30-667T

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**

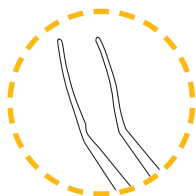


CATARACT INSTRUMENTS

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



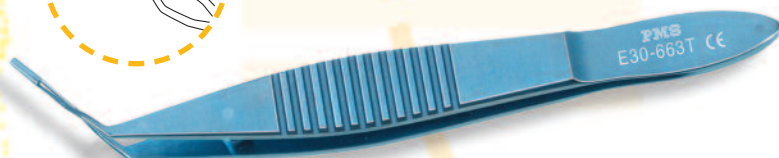
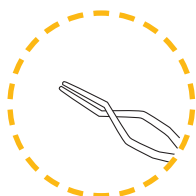
Foldable Lens Inserters
are best to implant acrylic lenses
through a small incision.



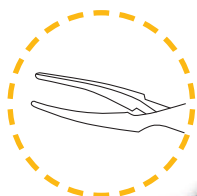
EZSert®
Buratto Lens Forceps
angled 8 mm shanks,
biconvex smooth jaws,
10.5 cm
E30-646T



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



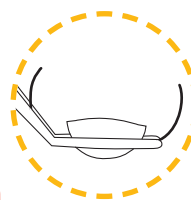
EZSert®
Ernest-McDonald
Soft Lens Insertion Forceps
cross-action design, angled 15 mm shanks,
low profile biconvex smooth jaws,
10.0 cm
E30-663T



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

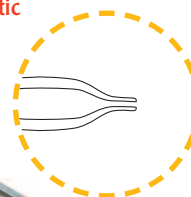


EZSert®
Zaldivar Soft Lens Insertion Forceps
angled 9 mm shanks, biconvex jaws
with extended smooth tips, 12.0 cm
E30-633 stainless steel
E30-633T titanium

designed to fold
today's soft IOLs

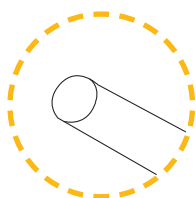


extended flat tips are useful to
implant superior haptic



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

CATARACT INSTRUMENTS



*The EZ way
to implant...*

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

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

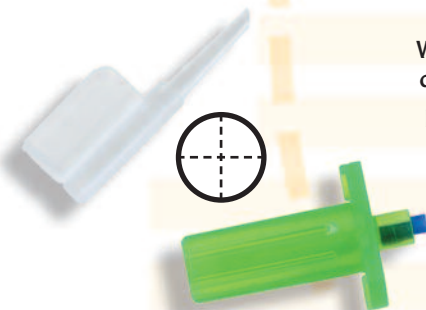
LP604235 2.7 Cartridge Set, sterile (box of 10)
for < 2.8 mm incision size

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

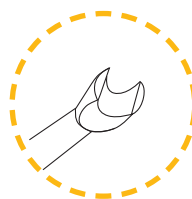


Do not resterilise injector cartridge and silicone cushion. Single use only.

CATARACT INSTRUMENTS



...simple, safe
and speedy



3B instruments
— lékařské nástroje —
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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

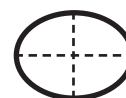
E30-651LC screw style, 14.5 cm



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

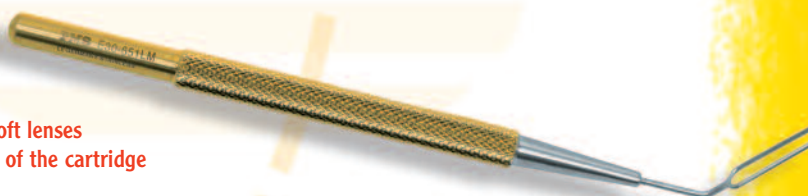


used with grooved tip injectors
E30-650LC and E30-651LC

OvalGlide™ and MicroGlide™ are registered trademarks of Medcel AG

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

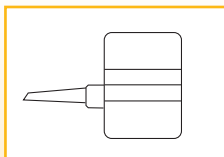
designed to accurately adjust soft lenses
within the tube portion of the cartridge



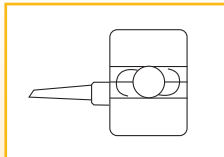
Video available

CATARACT INSTRUMENTS

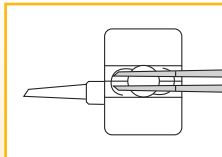
INSTRUCTIONS FOR LOADING



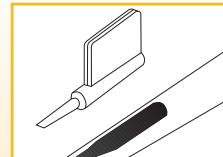
Open cartridge and fill
the loading chamber
with viscoelastic.



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*



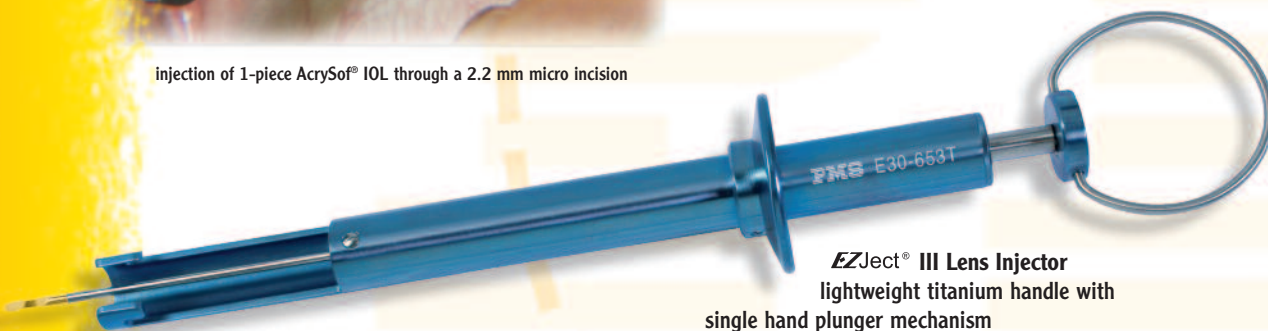
EZJect® II Lens Injector
lightweight titanium handle with
single hand plunger mechanism

E30-652T

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

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

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



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



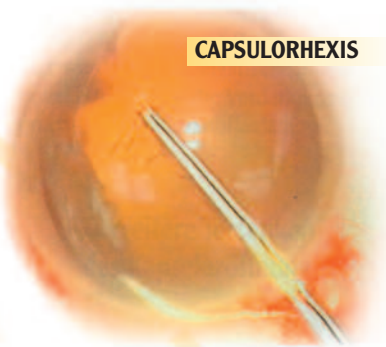
Lens Implant / Euro Cent comparison

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

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



CAPSULORHEXIS



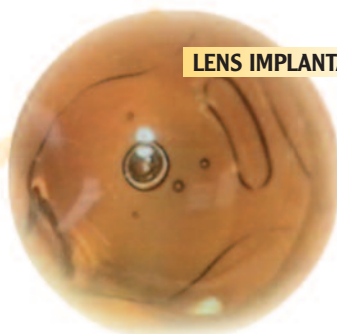
PHACOEMULSIFICATION



ASPIRATION



LENS IMPLANTATION



CATARACT INSTRUMENTS



"It's so EZ® to change"

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



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



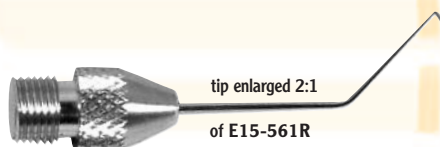
Nevyas
Soft IOL Manipulator
straight, rough tip

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



tip enlarged 2:1
of E15-561R

Sinskey II
IOL Manipulating Hook

E15-560R straight

E15-561R angled



Rentsch
Lens Manipulating Hook &
Iris Retractor, straight

E15-562R



Kuglen

Iris & IOL Manipulator

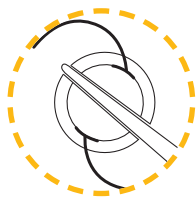
E15-564R straight

E15-565R angled



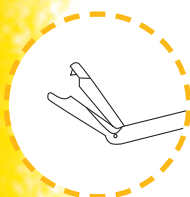
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

Just got easier!



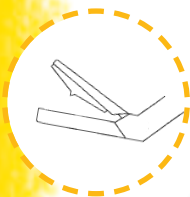
EZCut®
Williams Soft IOL Cutter
solid lower blade, wedge shaped
upper cutting blade, 11.0 cm
E30-630T

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



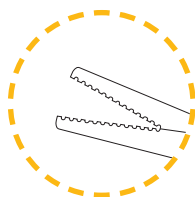
EZCut®
Leopold Soft IOL Cutter
scissors style cutting blades
with fixation pin at the front, 11.0 cm
E30-631T

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

CATARACT INSTRUMENTS



Cuts any foldable

IOL

3B instruments
— lékařské nástroje —
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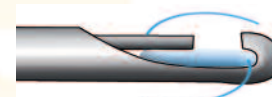
EZCut®
Alexander Soft IOL Cutter
titanium handle with single hand
plunger mechanism, straight shaft
E30-636T



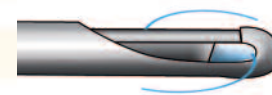
close-up of tip and
cutting mechanism



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.

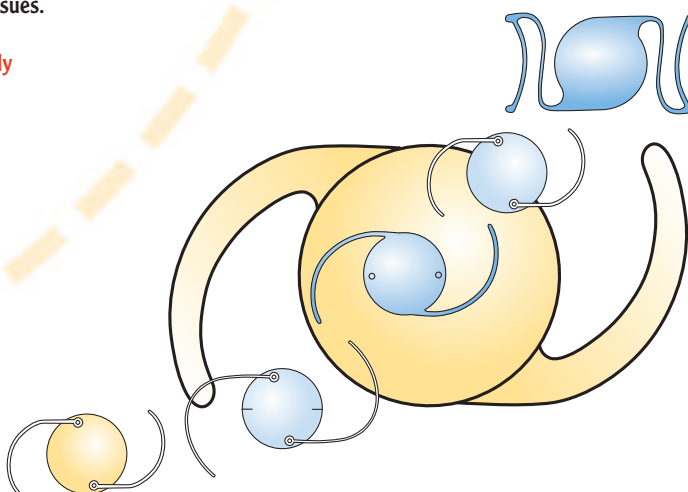
FEATURES AT A GLANCE

- 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.



CATARACT INSTRUMENTS



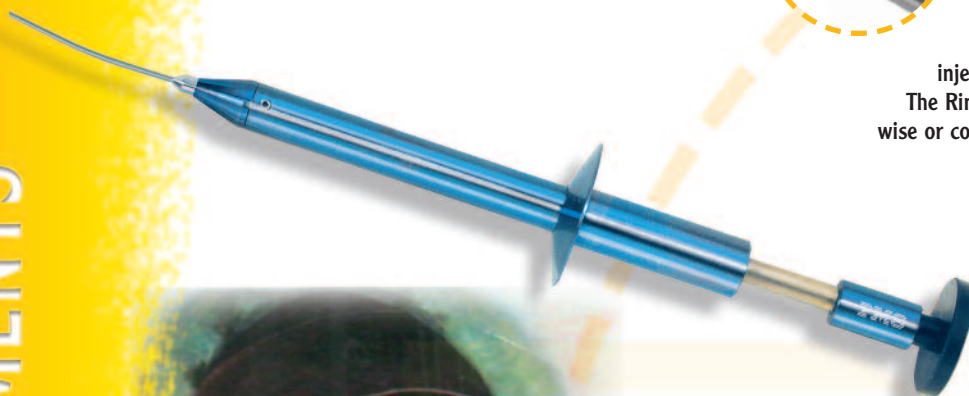
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

*necessary in
modern cataract
surgery*

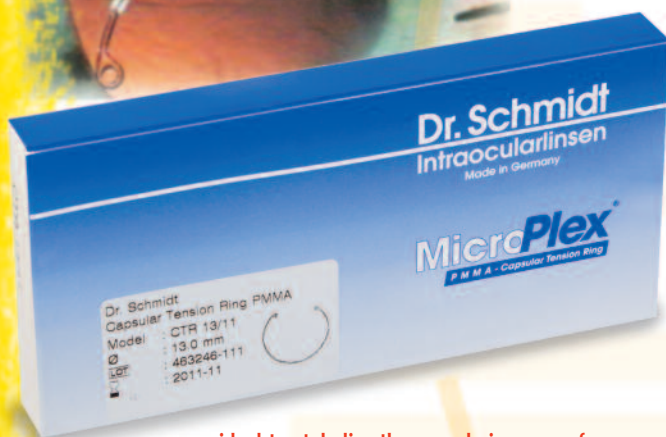
CATARACT INSTRUMENTS



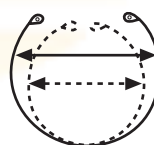
Spatulated tip with a micro hook inside for effective and reliable catching, holding and injecting of the Capsular Tension Ring. The Ring can be implanted in both clockwise or counterclockwise directions.



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



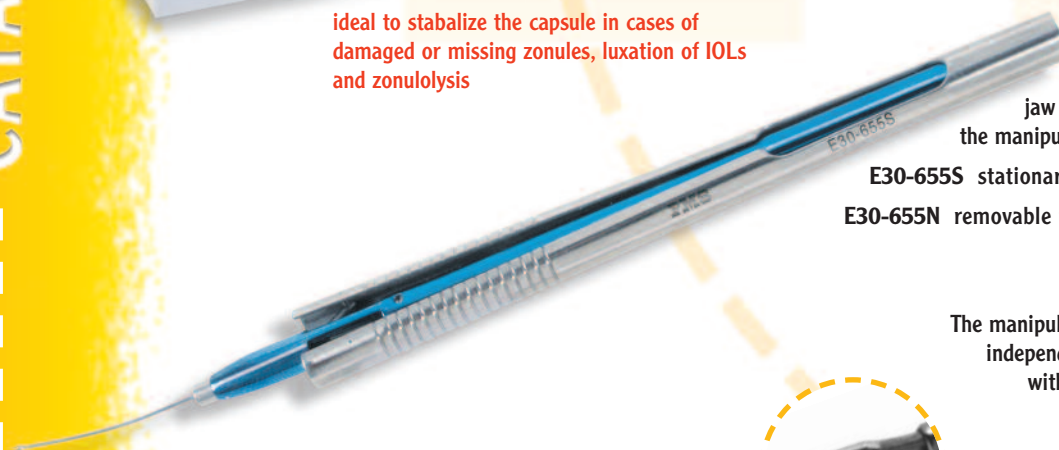
ideal to stabilize the capsule in cases of
damaged or missing zonules, luxation of IOLs
and zonulolysis



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 accomodate
the manipulator, 15.0 cm

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



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



Manufacturer:
Dr. Schmidt Intraocularlinsen,
Germany



IOL Scleral Suturing

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

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

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

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

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

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

Video available

CATARACT INSTRUMENTS

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

PMS TRADEMARKS

EZFit[®]**EZChange[®]****EZSert[®]****EZCut[®]****EZFix[®]****EZFio[®]****EZFold[®]****EZGrip[®]****EZHold[®]****EZJect[®]****EZWash[®]****EZLock[®]****EZLoad[®]**

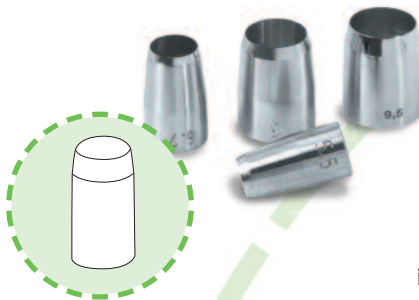


CORNEAL TREPHINE INSTRUMENTS .	138-139
CORNEAL TRANSPLANT SYSTEM	140
CORNEAL TRANSPLANT INSTRUMENTS	141-147
LASIK & PRK INSTRUMENTS	148-157
LASEK INSTRUMENTS	158-159
AK INSTRUMENTS & DIAMOND KNIVES ..	160-161
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ICL® INSTRUMENTS	168-171
DSEK/DLEK INSTRUMENTS	172-173
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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



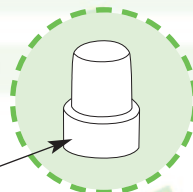
New

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

***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

"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.,



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



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

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

10.0 mm to 11.0 mm are placed here

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

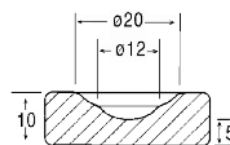
to cover cornea tissue



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

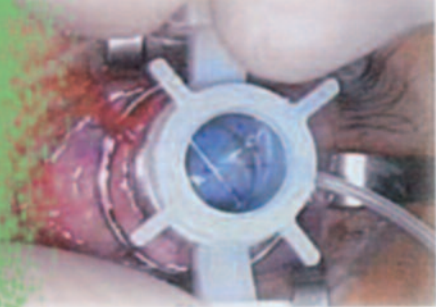


supplied without E40-533 handle



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

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

PMS

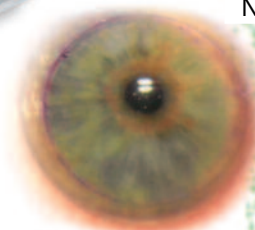
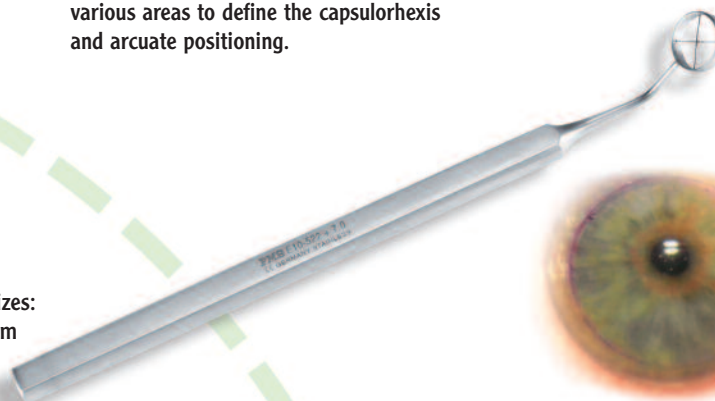


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

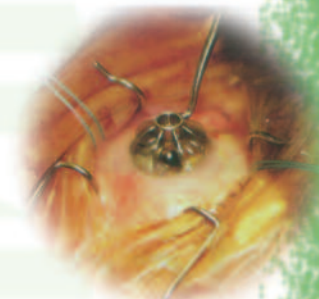
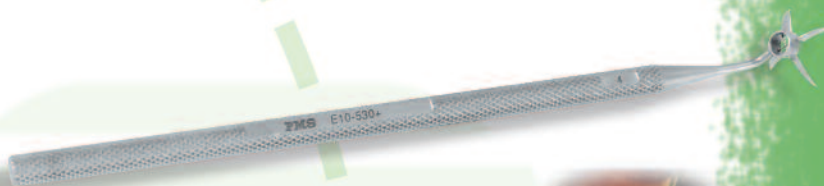
Thornton

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

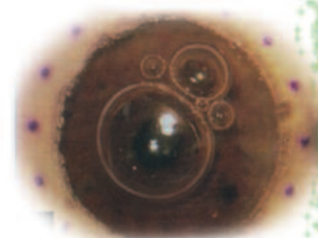
Anis

Suture Placement Marker
eight radial marking lines,
8 mm dia. central opening,

11.0 cm

E10-548

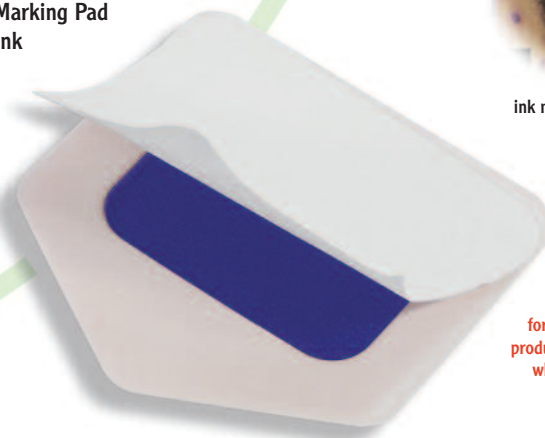
ideal to mark suture placement sites on the
recipient cornea prior to penetrating keratoplasty



ink markings of suture placement sites

Marking Pad

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



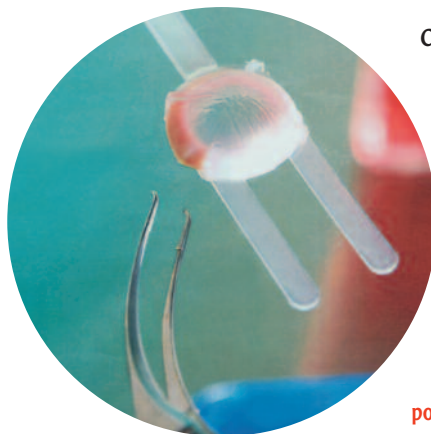
Ink marking pads are used
for coating cornea markers to
produce a pattern on the cornea
which is clearly visible for the
duration of the surgery.

*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



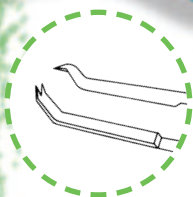
Corneal Donor Tissue is of great value to the recipient. Thus, it should be controlled and selected by specialists, stored with utmost care and only handled using Precision Micro Surgical instruments of superior quality material. Using the double-armed forceps, you can stabilise the corneal graft in 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

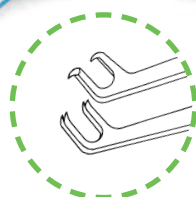
E40-682 stainless steel

E40-682T titanium



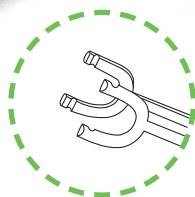
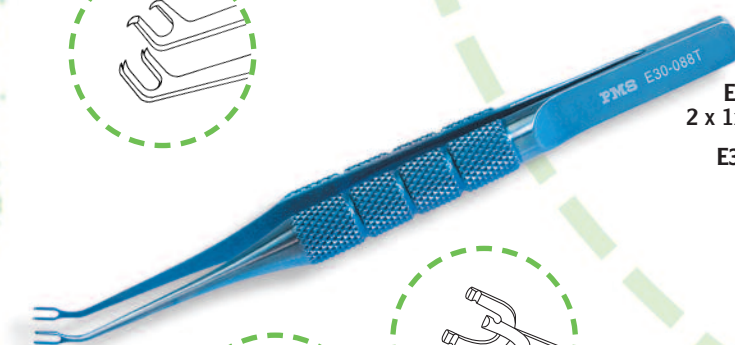
Harms
Corneal Suturing Forceps
1 x 2 teeth, 0.12 mm/45°,
tying platform, 7.5 cm

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

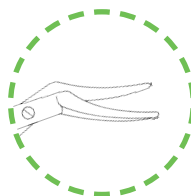
E30-088T Remky-Polack
2 x 1x2/0.12 mm teeth 45°

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.



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

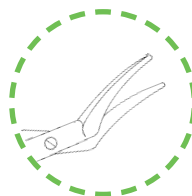
E25-050 medium, right

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

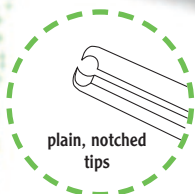


KERATOREFRACTIVE



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

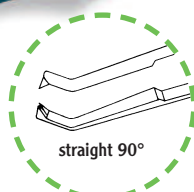


Hoskin
Suture Tying Forceps
8.5 cm, ultra fine jaws with
E30-030T plain, notched 0.25 mm tips
E30-038T platform, notched 0.25 mm tips
E30-034T plain, pointed tips for suture removal



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

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

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



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

KERATOREFRACTIVE



CORNEAL TRANSPLANT SURGERY SET

*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 Maumanee 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

PMO



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

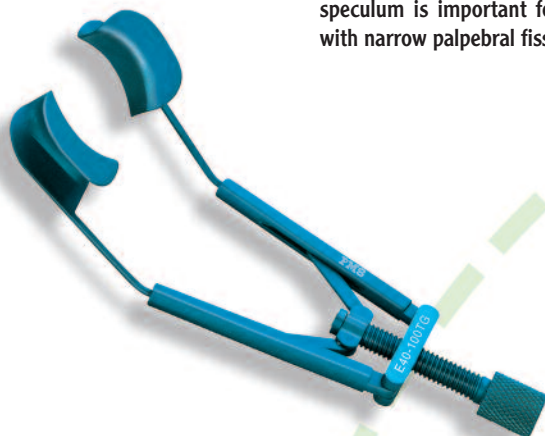
KERATOREFRACTIVE



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.

KERATOREFRACTIVE



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



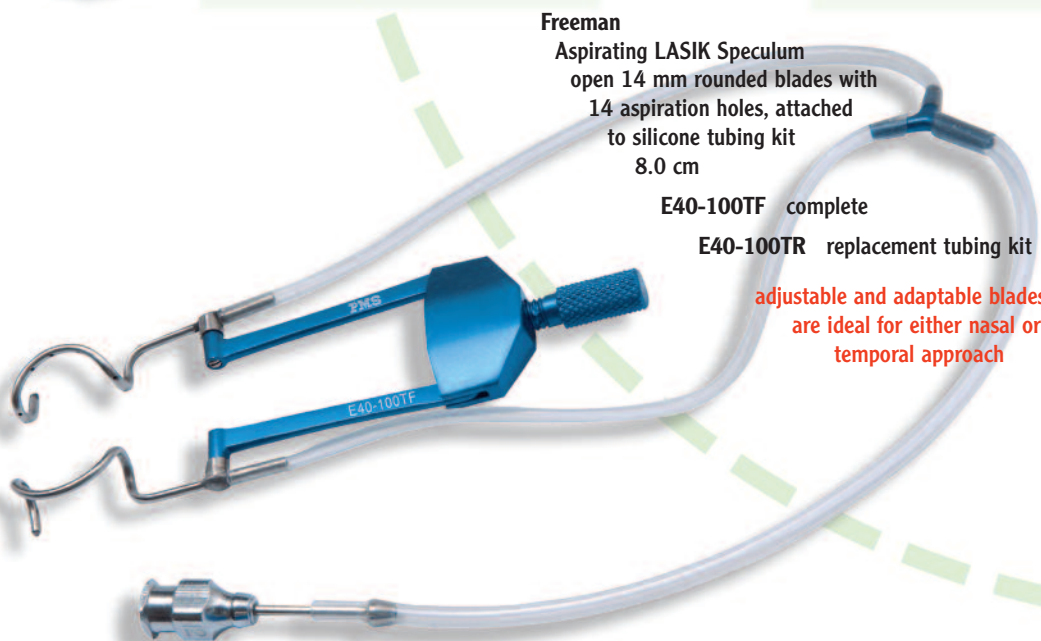
Machat
LASIK Temporal Speculum
open 14 mm V-shaped blades, 8.0 cm
***E40-100TM**

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
Aspiring 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).

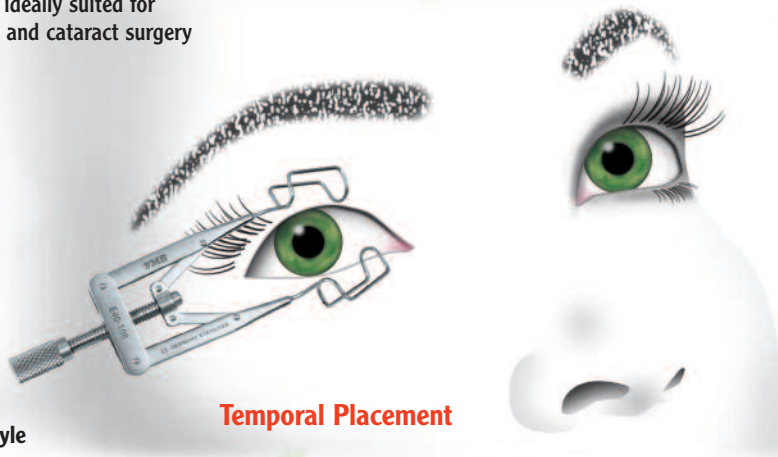
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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



KERATOREFRACTIVE

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 movement during
PRK/LASIK; also serves as a resting place for the corneal flap



Gimbel
LASIK Atraumatic Stabilisation Ring
open 13 mm ID swivel ring
with 9 mm cutout, 13.0 cm

E10-513G stainless steel

E10-513TG titanium

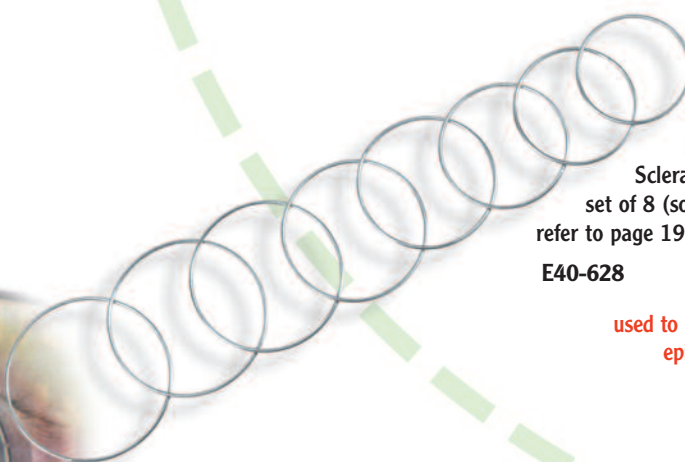
blunt teeth on both sides for atraumatic fixation;
can be used for either the left or right eye



Moretsky
LASIK Hinge Protector
with swivel fixation ring
11.0 mm ID, 13.0 cm

E10-511TM

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



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

E40-628

used to be fixed to the
episclera with sutures



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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

**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

KERATOREFRACTIVE



3B instruments
— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

KERATOREFRACTIVE

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

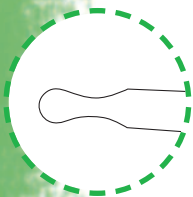


Katzen
LASIK Retreatment Flap Separator
smooth bullet tip and 45° angled
delicate hook, 11.5 cm

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

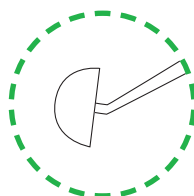
used to retract and protect
nasally hinged flap (left & right eye)



Caro
Flap Smoother
angled, hemispherical tip, 11.5 cm

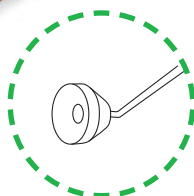
E15-383T

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.

3B instruments
— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

Mendez
LASIK Multipurpose Forceps
11.5 cm
E30-331T

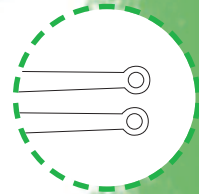
this instrument combines
the features of a spatula,
dissector and forceps

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



Perone
LASIK Flap Forceps
curved, extra delicate
2 mm ring tips,
11.0 cm
E30-332T

ideal for atraumatically grasping
and securely lifting the flap



Manche
LASIK Flap Forceps
curved jaws, oval tips, smooth
inside surfaces, 11.0 cm
E30-333T

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



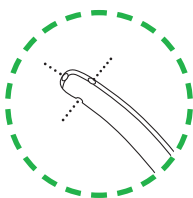
Hersh
LASIK Retreatment Forceps
curved shafts, U-shaped 3 mm
spread, double notched tips,
11.0 cm
E30-335T

used for controlled peeling of
the flap from the stroma



KERATOREFRACTIVE

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

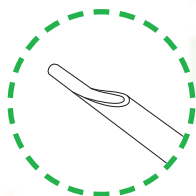
E20-525 reusable

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

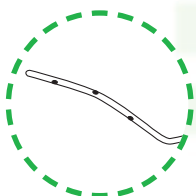
LASIK Cannula

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



Vidaaurri

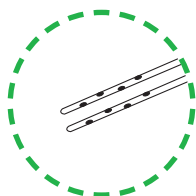
LASIK Cannula

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

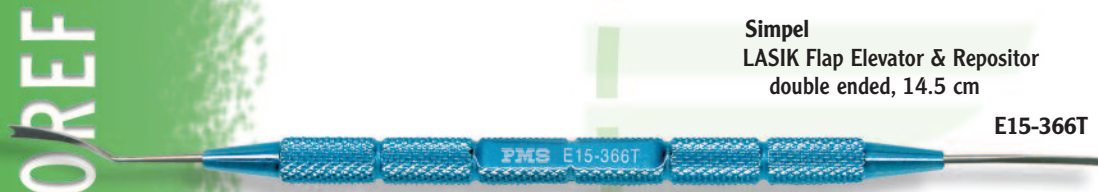
E30-460 McPherson Tying Forceps, page 24

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

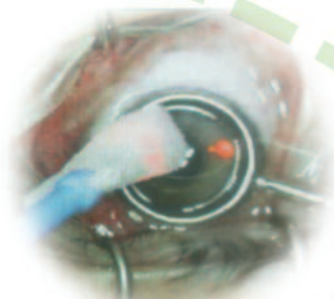




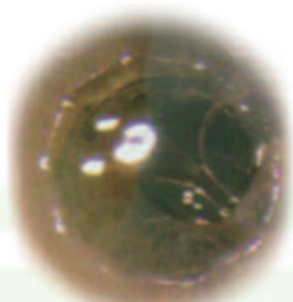
Incisional and ablative corneal procedures

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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LASEK using alcohol solution



fs-LASIK with femtosecond laser



epi-LASIK
with mechanical microkeratome

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

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

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



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

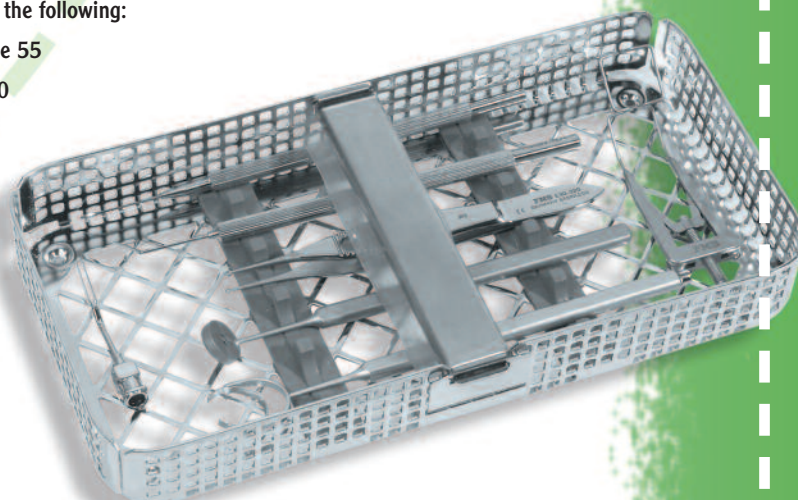
used to locate and elevate the flap edge,
and to effectively dissect underneath the flap



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

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

EZWash® Sterilising Tray
without instruments
E45-113

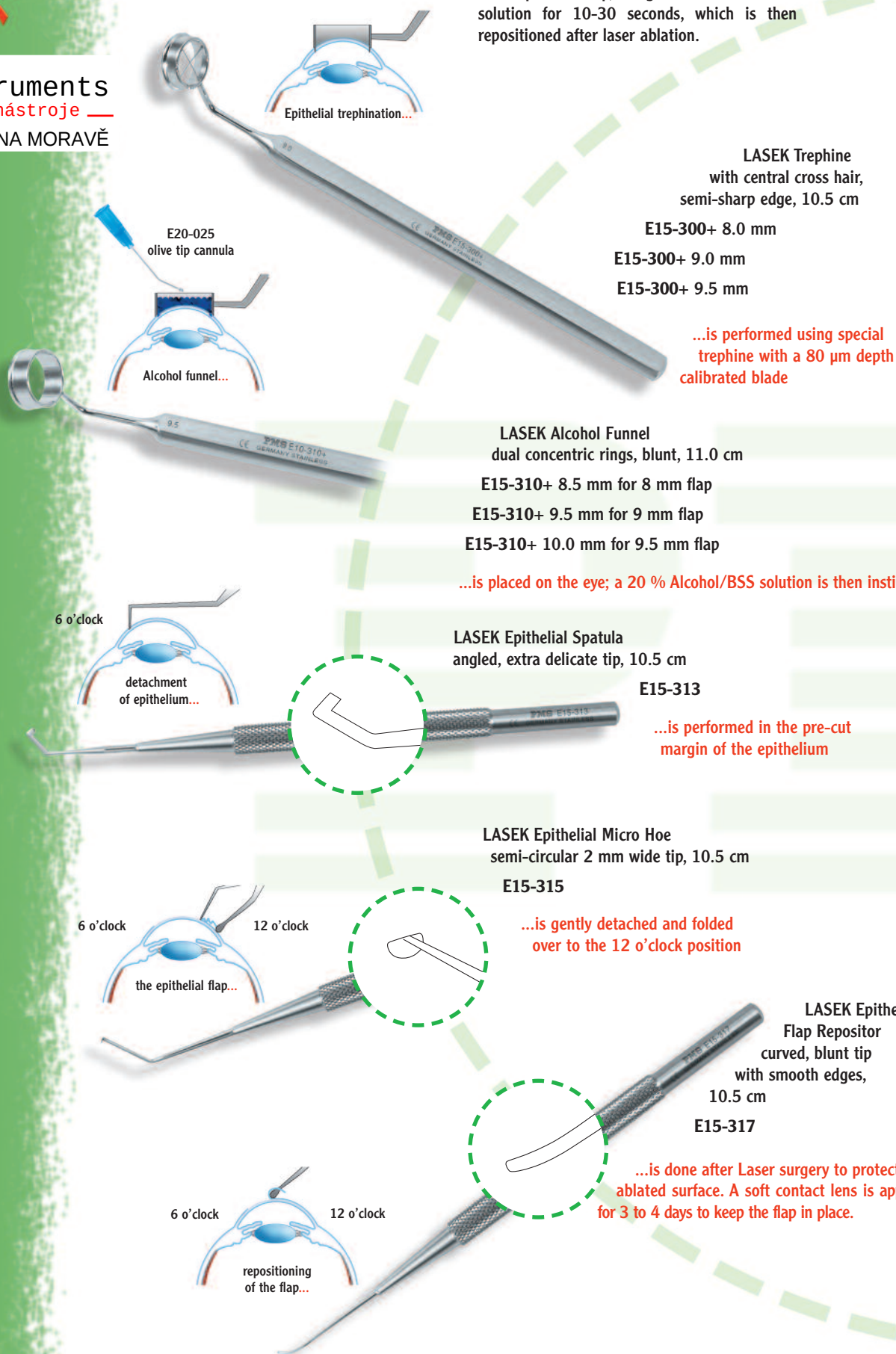




3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

LASEK INSTRUMENTS FOR CAMELLIN TECHNIQUE

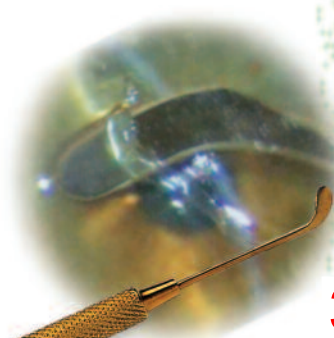
Simple Technique – starts with the creation of an epithelial flap, using a 20% Alcohol/BSS solution for 10-30 seconds, which is then repositioned after laser ablation.



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"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.



3B instruments
— lékařské nástroje —
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**Vinciguerra Style
PRK/LASIK Spatula Knife**
curved 2.5 x 5 mm long blade,
semi-sharp anterior edge, 11.5 cm

E15-355T

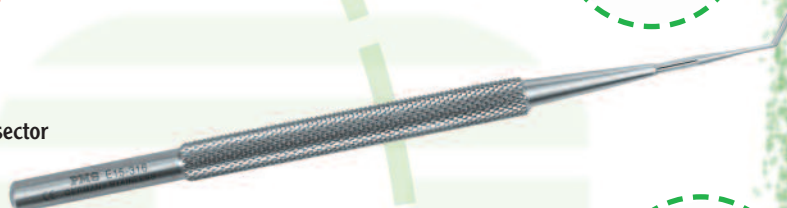
used to make initial off-center
incision into the epithelium
and to dissect the flap outwards to the limbus



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

E15-316

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



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

E15-318

to efficiently dissect and fold back the flap



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

E40-100L Slade LASIK Speculum

E15-300+ 9.0 LASEK Trephine

E15-310+ 9.5 LASEK Funnel

E15-315 LASEK Micro Hoe

E15-317 LASEK Repositor

E20-025 Alcohol Cannula

E45-162 Instrument Tray



Silicone Instrument Tray
(160x85x20 mm)

E45-162

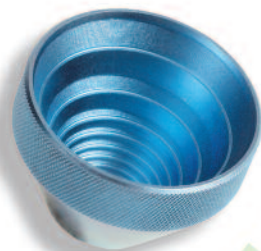
for secure positioning of 10 instruments

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3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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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

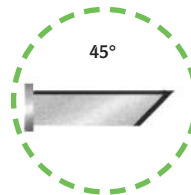


*also available on titanium round handle, add "T" to cat. no.

Back & Front Cutting Knife
 vertical and 45° cutting edges

*E10-260

suitable for all types of
 keratorefractive incision

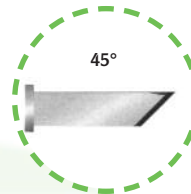


Gem Quality Diamond Knives. A gem quality diamond is considered to be free of inclusions visible at 10x magnification.

"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



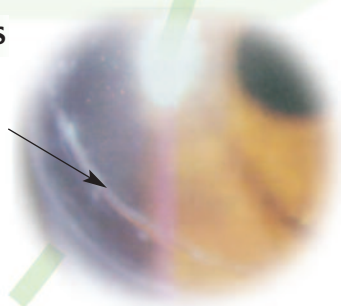
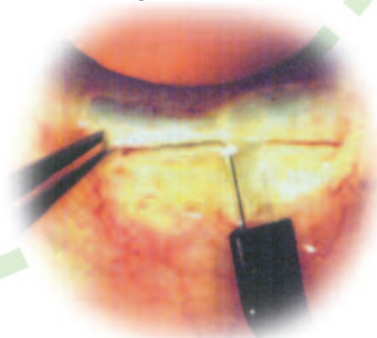
Footplates of PMS micrometer diamond knives are highly polished and coated with titanium nitride for smooth gliding on the corneal surface.

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

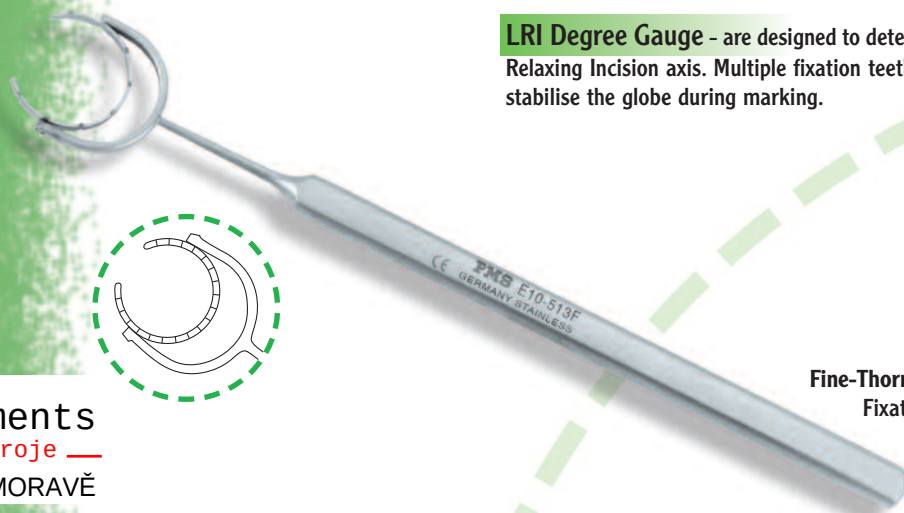
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3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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



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



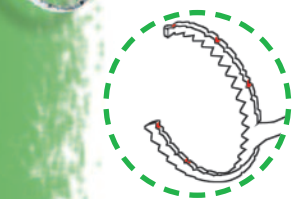
Lu-Mendez
LRI Guide/Fixation Ring
measures from 0-150° on both sides, 13.0 mm ID, 11.5 cm
E10-561

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

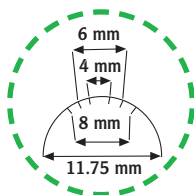
fits with degree gauge of max. 13.0 mm ID



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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

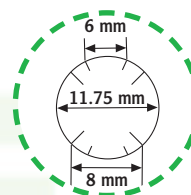


markers are designed to be
used with a degree gauge

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

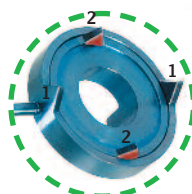
Toric IOL/LRI Marker
low-profile degree gauge,
with adjustable inner
points, 13.0 cm

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



KERATOREFRACTIVE

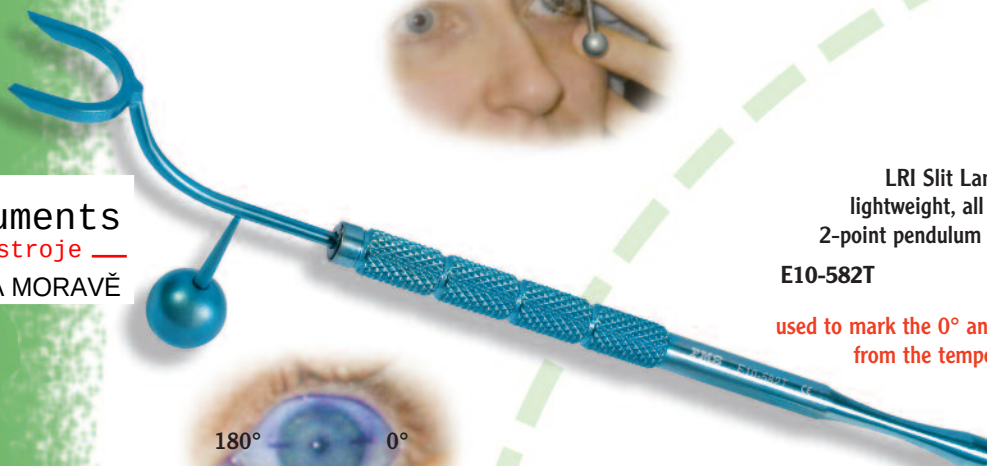


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

KERATOREFRACTIVE

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

180° 0°

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

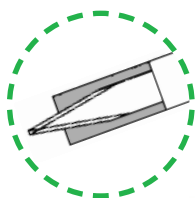


180° 0°
90°

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

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.

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

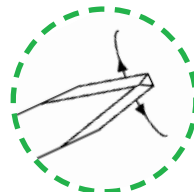
LRI Preset Diamond Knives
tri-facet 20° blade, flat 0.4 mm tip,
one fixed depth setting of:

E10-384 0.5 mm

E10-385 0.55 mm

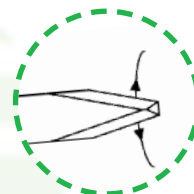
E10-386 0.6 mm

- 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

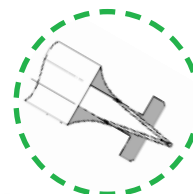
E10-383



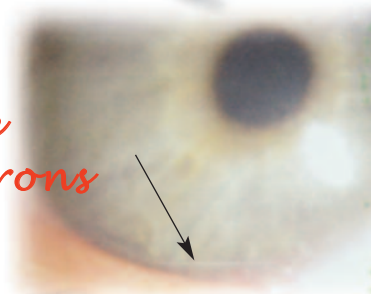
Nichamin
LRI 7-Step Diamond Knife
tri-facet 15° blade, narrow/flat
0.2 mm tip, preset depth settings of:
0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75 mm

E10-387

excellent blade visualisation
while performing the incision

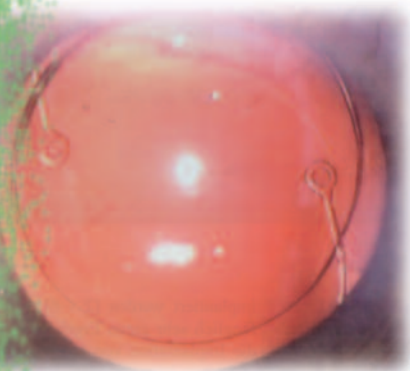


*the preferred depth of the
LRI procedure is 600 microns*



limbal relaxing incision (arrow)
performed with a diamond knife

KERATOREFRACTIVE



Hydrophobic, 3-Piece Toric IOL MS 6116TU 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

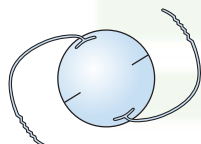
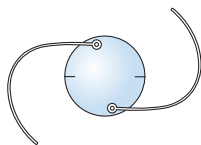
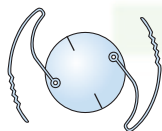
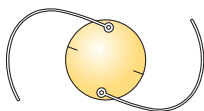
DIOPTER RANGE

SPHERE

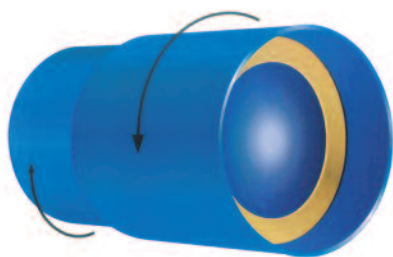
- +15.0 to +25.0 D (0.5 D steps)
- - 3.0 to +14.0 D (1.0 D steps)
- +26.0 to +31.0 D (1.0 D steps)

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 !



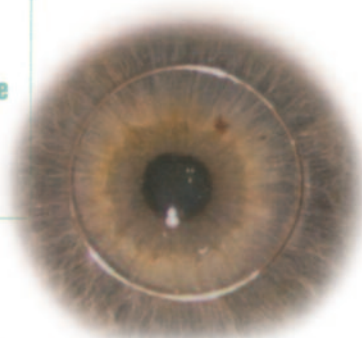
The Toric Demonstrator #100010 simulates why a toric lens is useful for patients having corneal astigmatism.



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

“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:

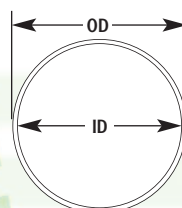
CR 7.0 OD 7.3 mm, ID 7.00 mm

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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

IMPLANTABLE CONTACT LENS INSTRUMENTS



Kraff-Lieberman
Temporal Eye Speculum
solid 15 mm blades, 8.0 cm

E40-104T titanium

E40-104 stainless steel

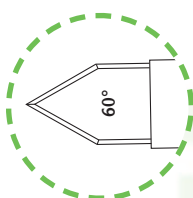
facilitates unobstructed access
for temporal approach, adjusts
easily to comfort patient's eye



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

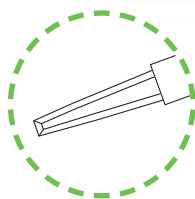
E10-513T 13 mm ID for clear cornea incision

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

KERATOREFRACTIVE



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

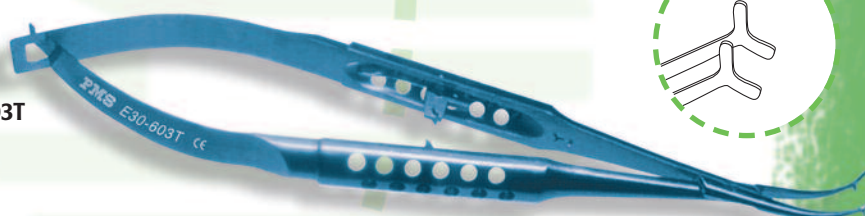
E30-602 stainless steel

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



KERATOREFRACTIVE

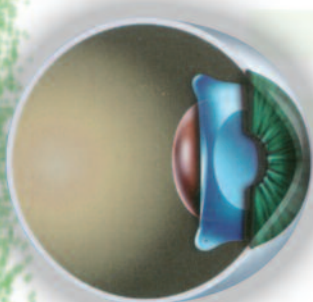
ICL® is a trademark of STAAR Surgical Company



*Instrument sets
are presented as
guidelines only*



Foldable Phakic Lens Implantation



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

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

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:**

PROTECTION

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

PERFORMANCE

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

SIMPLICITY

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

MATERIAL

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



also available on round handle - made of:

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

New

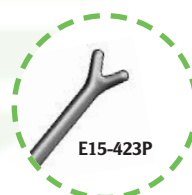
3B instruments

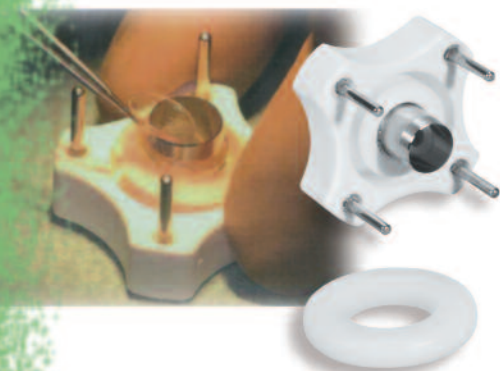
— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

KERATOREFRACTIVE

AND THE MOST POPULAR INSTRUMENT TIPS





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**

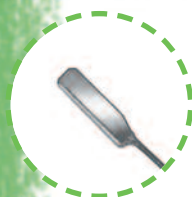
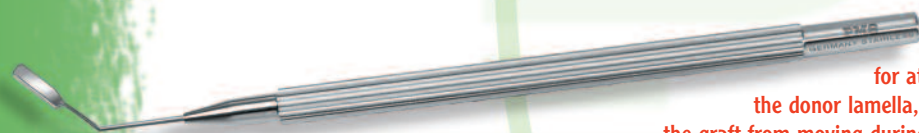
for intrastromal dissection



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 Sinskey 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.

more information
on page 140



corneal graft trephination of recipient eye

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®

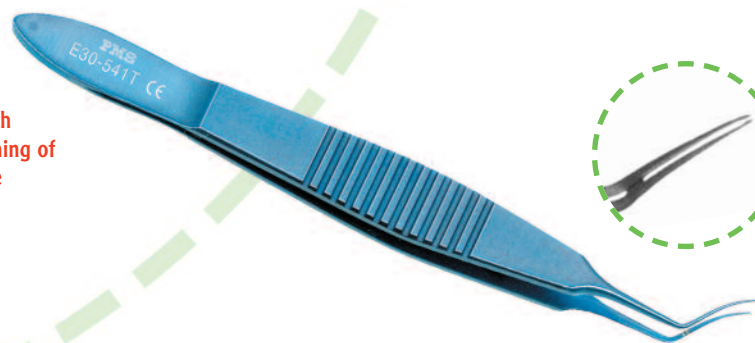
Donor Tissue Insertion Forceps

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



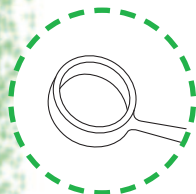
KERATOREFRACTIVE



DSAEK INSTRUMENTS

for patient preparation

KERATOREFRACTIVE

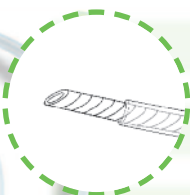


Shapira
DSAEK Eye Speculum
open 14 mm round blades,
blunt distal ends, 8.0 cm
E40-100P stainless steel
E40-100TP all titanium

ideal for micro lamellar keratoplasty

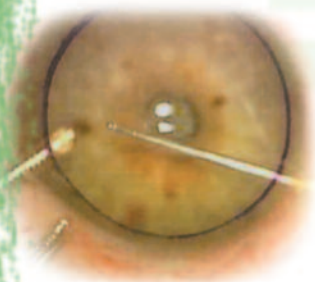
DSAEK Marker
double-ended, low profile rings of
8.0 mm and 9.0 mm dia., 12.0 cm
E10-529

*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-adaptor
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



3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

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

E30-330T angled straight

E30-331T angled curved

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



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

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

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

E15-344T titanium

E15-344 stainless steel

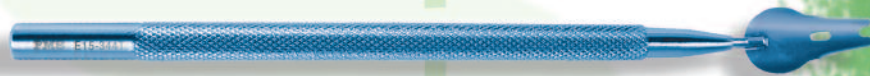


illustration shows inverted position

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

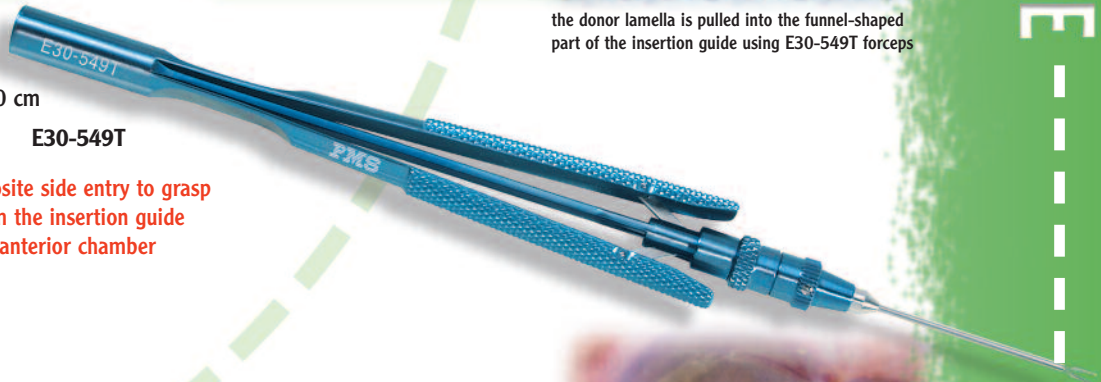


the donor lamella is pulled into the funnel-shaped part of the insertion guide using E30-549T forceps

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

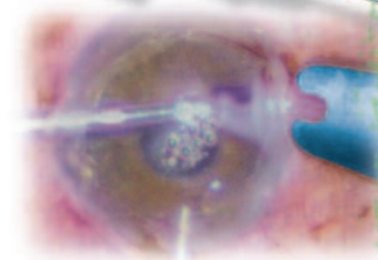
E30-549T

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



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.

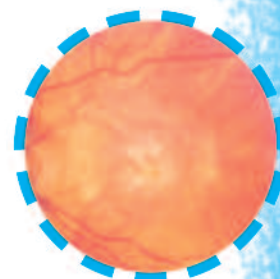
KERATOREFRACTIVE





3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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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 **EZGrip**®, **EZChange**® and **EZCut**® 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 **EZWash**® 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.*





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

scissors have sharp tipped blades, unless otherwise indicated

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



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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

Tip Protector for
instruments with
stationary tips

E15-022



Horizontal Subretinal Scissors
sharp 3.5mm/45° blades

E25-604SR

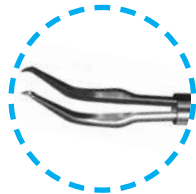
for cutting and dissecting
in the subretinal space



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



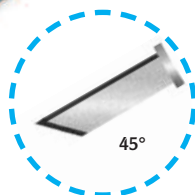
20°

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



45°



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS



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.

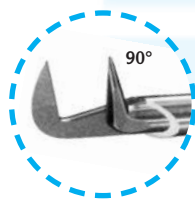


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

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°

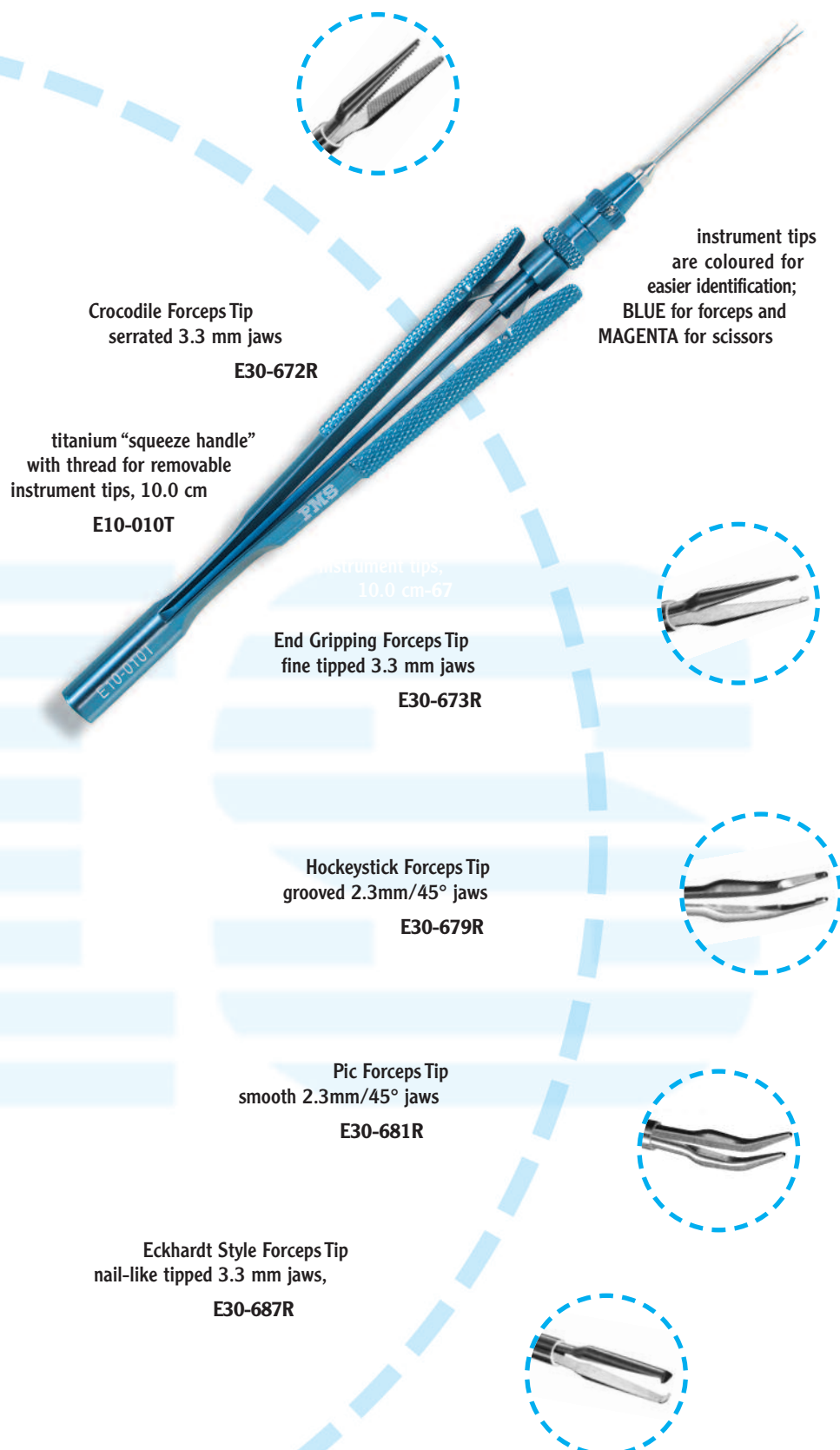
gentle angle of blade allows cutting and
dissection parallel to the retinal surface

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



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

tips and handle sold singly



23GA/0.65 MM EZChange® MICRO INSTRUMENT TIPS

VITREORETINAL INSTRUMENTS

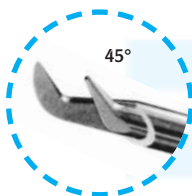
23GA/0.65 mm diameter
EZChange® instrument tips
are excellent for pediatric and
other microsurgical procedures



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

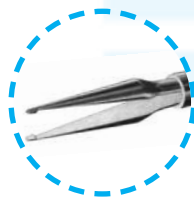
E25-605R23 45°
E25-607R23 70°

for 20GA/0.9 mm Trocar Cannula System



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

cellent for peeling and manipulating membranes



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

end gripping tips are ideal for macularhexis...



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

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

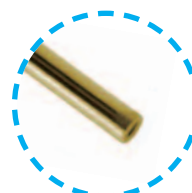


essential instruments for managing IOFB, two sizes 18 & 20GA are
ideal to remove most foreign bodies of any shape, size and material

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



3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

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.

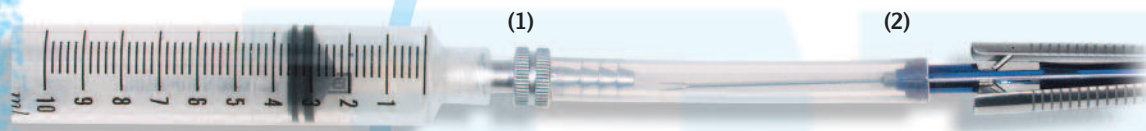
Additionally protein may coagulate inside the instrument if not flushed out before sterilisation and thus can completely stop the mechanism from functioning.

- 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.

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.

- 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.



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.

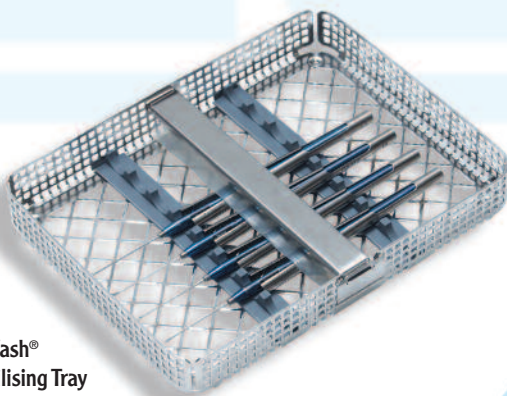


Vitreo Cleaning Adapter
titanium case with LL cone
E20-426T

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.



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

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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

even field

wide field



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

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

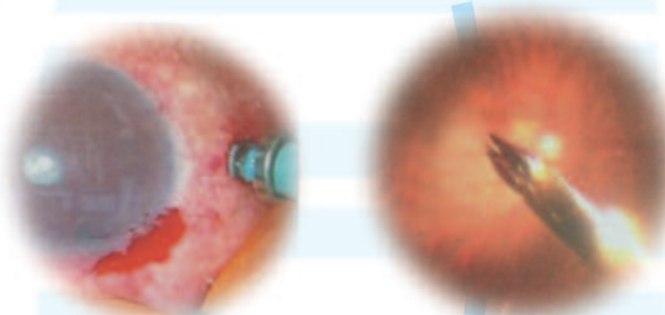
Wide Angle Chandelier Cannula with adaptor for Ocutome system, self-retaining 20GA/0.9 mm cannula, disposable, sterile (box of 5)

*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.

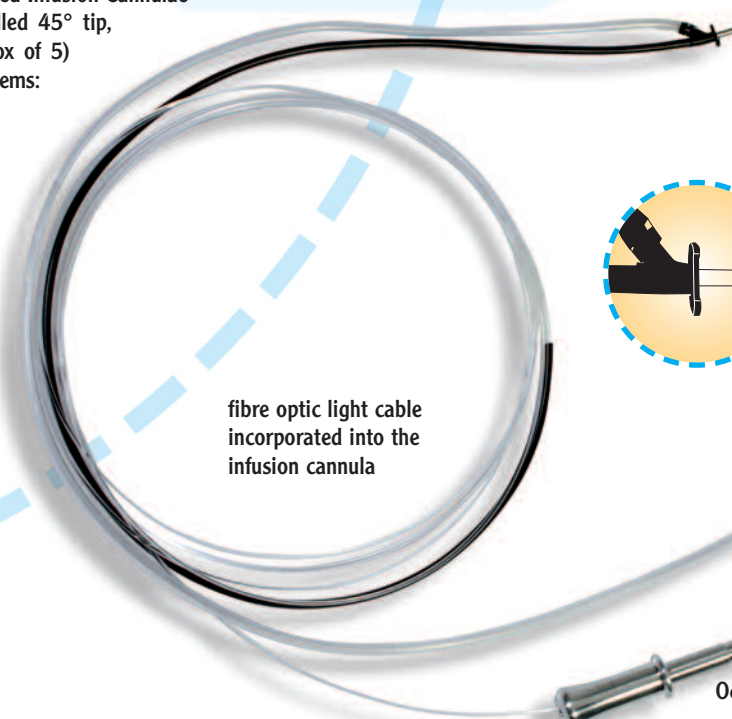
Chandelier Cannula is placed in the pars plana area without the need of sutures for fixation.



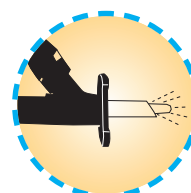
Removal of dislocated IOL with chandelier illumination and vitreoretinal forceps.

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

VITREORETINAL INSTRUMENTS

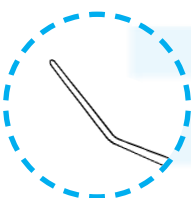


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

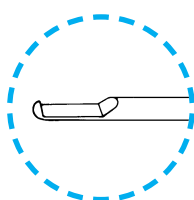
Removable Instrument Tips

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



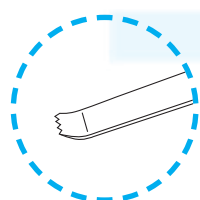
Membrane Spatula/Knife Tip
angled sharp 5 mm blade
E15-347R

for dissection and excision of
membranes from the surface



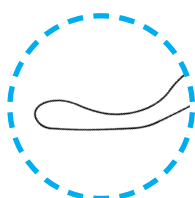
Membrane Peeler Tip
blunt recessed shaft
***E15-350R**

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

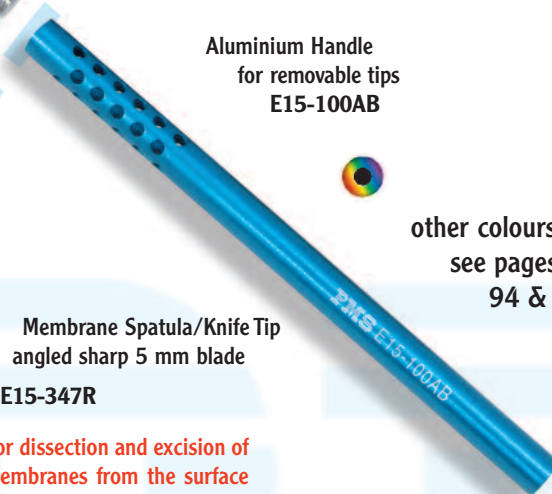


tips and handle sold singly

Aluminium Handle
for removable tips
E15-100AB



other colours
see pages
94 & 130



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

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

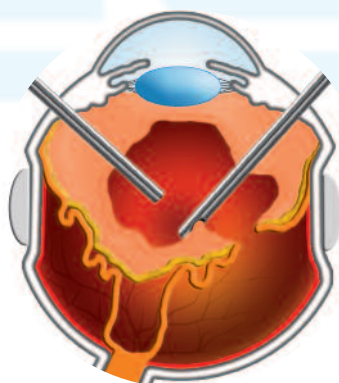
Membrane Spatula Tip
angled 130° triangular pick

*E15-371R

ideal for blunt dissection and
epiretinal membrane peeling

Membrane Pick Tip
angled 130° blunt spatula

*E15-373R



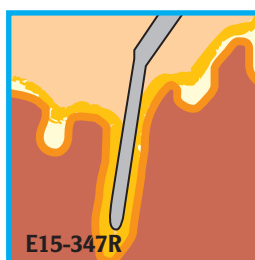
PMS EZChange® picks, rakes, and spatulas
can meet all your needs for easy, controlled
membrane manipulation and peeling
around the retina surface.



E15-350R



E15-363R



E15-347R



E15-355R

...locating, lifting, stripping...

...dissection, delamination...

...dissection and excision...

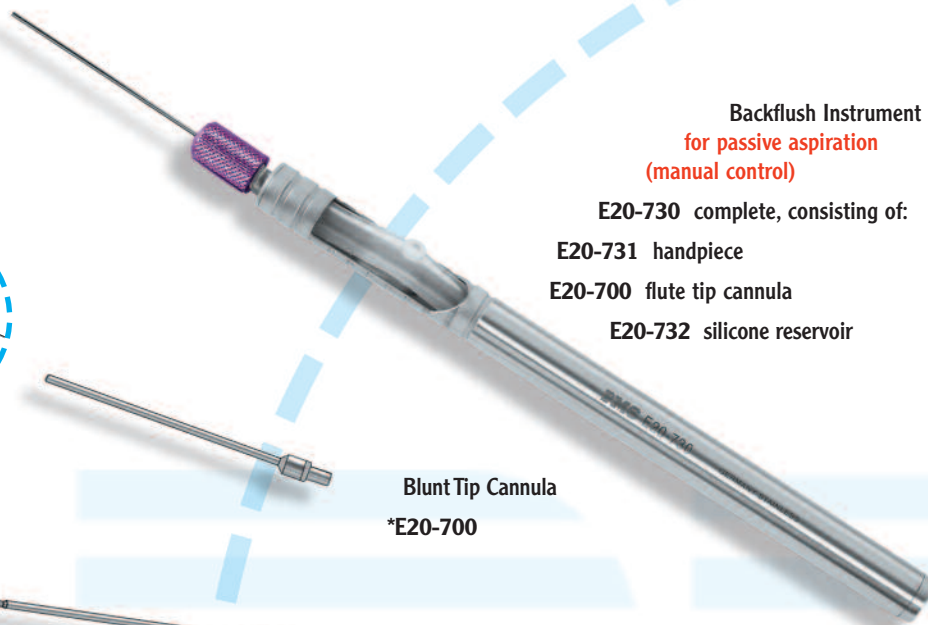
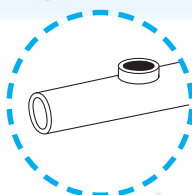
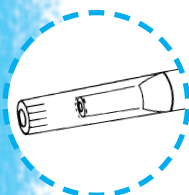
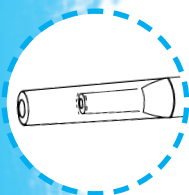
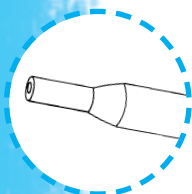
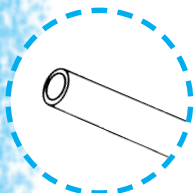
...cleaning and peeling.



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.

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

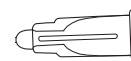
Tapered Tip Cannula

*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



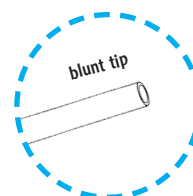
PMS Backflush Handles accept Luer-Lock and Standard Luer Fitting Cannulae. Simple design provides ease of use and setup.

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

Backflush Handpieces
for passive aspiration
(manual control)

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

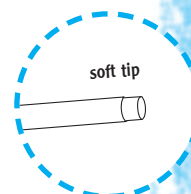
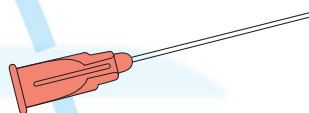
supplied
without cannula



Blunt Tip Cannula
front open port

***A3207**

also known as Charles Flute Needle

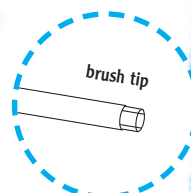


Soft Tip Cannula
2 mm extendible sleeve

***A3198**

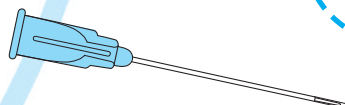


*** disposable cannulae, sterile, 10 per box**



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.

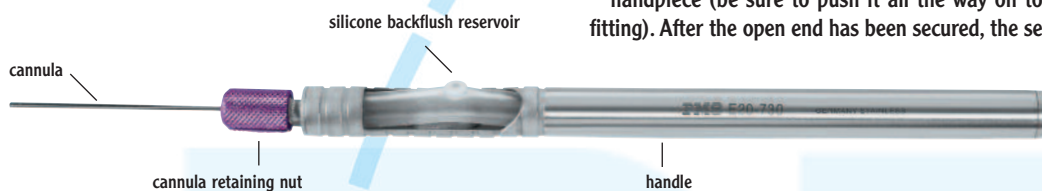
PMS backflush instruments consist of four basic parts:

- 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.

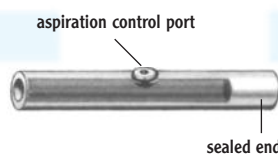
- 1) Unscrew and remove the cannula retaining nut and remove the cannula.
- 2) Remove the silicone backflush reservoir from the handpiece by pulling up the center of the tubing.

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.

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



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.



EZLoad® 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

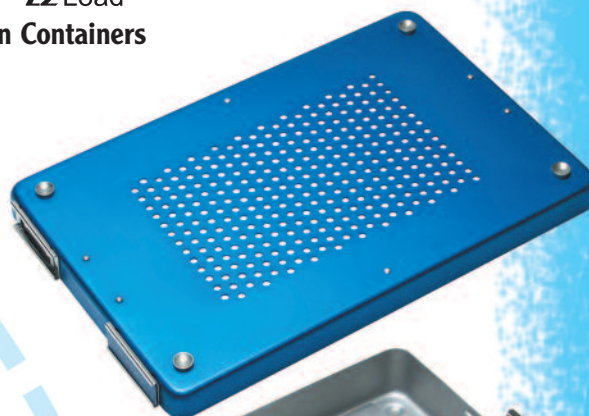
We highly recommend the utilisation of PMS EZWash® sterilisation trays and PMS EZLoad® sterilisation containers to sterilise, store and protect all of your delicate PMS vitreoretinal instruments. For more details refer to relevant section.

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.

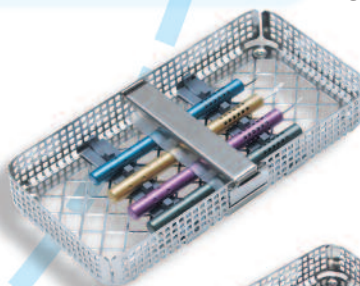
AND ALWAYS REMEMBER:

**HANDLE YOUR INSTRUMENTS
WITH TENDER LOVING CARE**

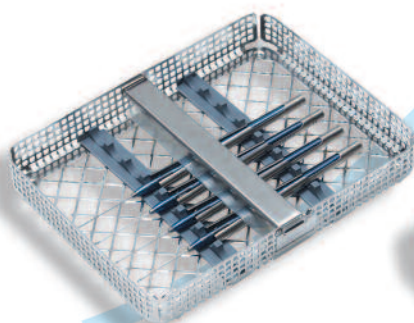


E45-221B
310 x 190 x 40 mm
for storage of 1 x 1/1, 2 x 1/2
or 3 x 1/3 size Sterilisation Trays

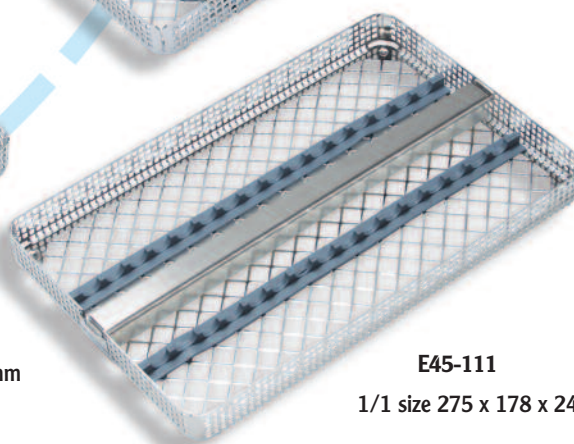
EZWash® Sterilisation Trays



E45-113
1/3 size 178 x 90 x 24 mm



E45-112
1/2 size 178 x 140 x 24 mm

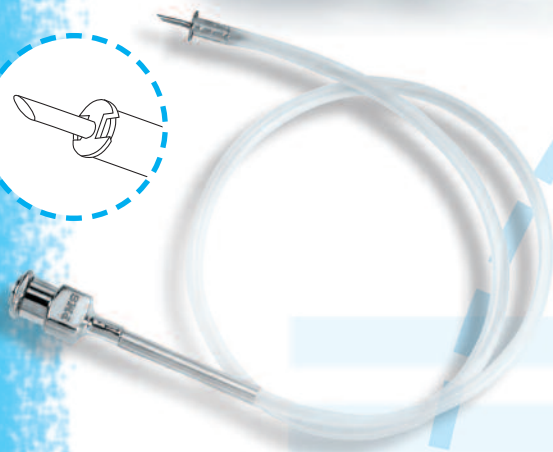
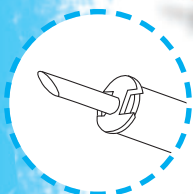


E45-111
1/1 size 275 x 178 x 24 mm

VITREORETINAL INSTRUMENTS



*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

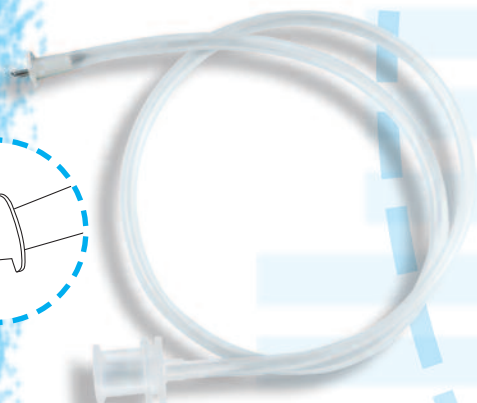
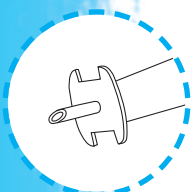
E20-754 4.0 mm tip

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

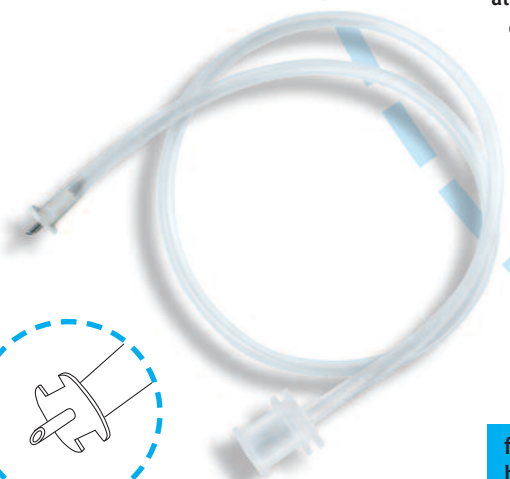
for injection of viscous fluids during
posterior segment procedures

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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

Directions for use

Note: This item is sold as **NON-STERILE**



PREPARED:
1) Sterilize (gas or steam autoclave) scleral plugs.
2) Utilization, open pouch onto sterile field.
3) 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

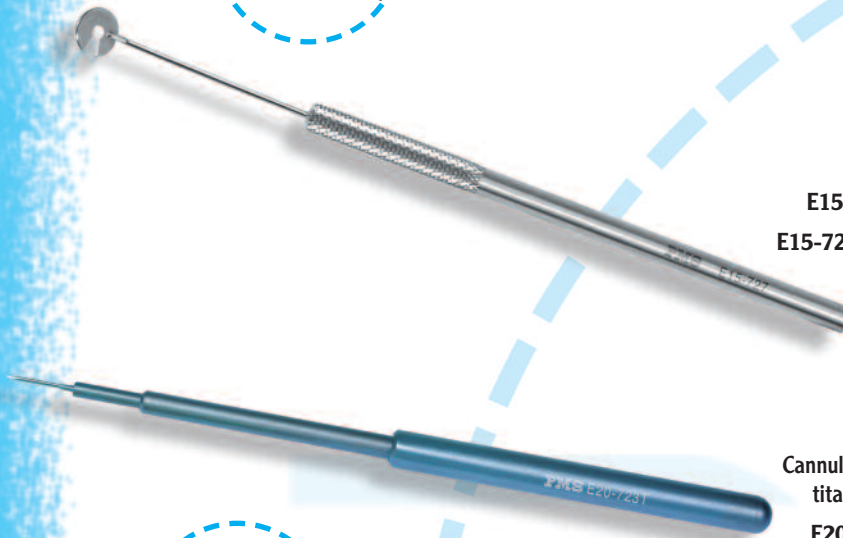
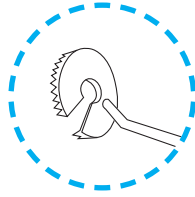
E30-778T

**for micro 23GA/0.65 mm
scleral plugs and trocar
cannulae**

VITREORETINAL INSTRUMENTS

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

*affordable,
economical...*



Trocar Fixation Plate
multiple atraumatic teeth,
central 2.75 mm opening
and side port, 11.0 cm

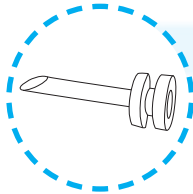
E15-727 stainless steel

E15-727T titanium

*ideal for conjunctiva fixation
around the general area of
the pars plana incision site*

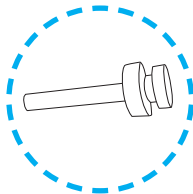
Cannula Inserter
titanium, blunt tip, 10.0 cm

E20-723T



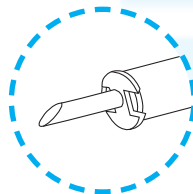
Trocar Cannulae
non-sterile (4 per tablet)

E20-723C



Cannula Plugs
non-sterile (4 per tablet)

E20-723P

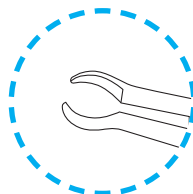


Universal Infusion Cannula
4 mm bevelled tube attached to
silicone tubing with LL cone,
non-sterile (sold singly)

E20-723U



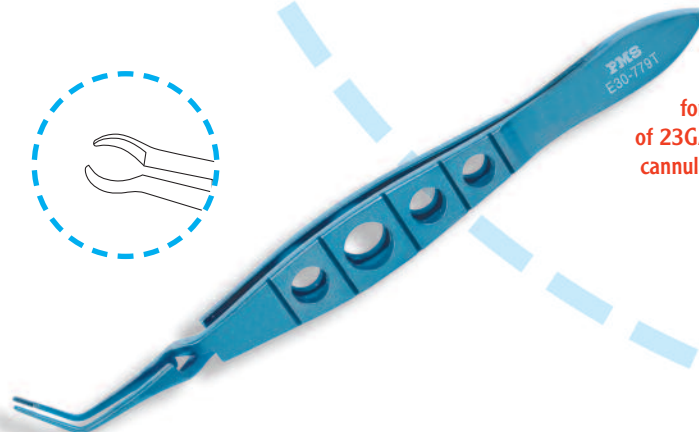
sterilise before use



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*



VITREORETINAL INSTRUMENTS



*... efficient,
two step technique*

23GA/0.65 mm Trocars 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
Trocars 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.



VITREORETINAL INSTRUMENTS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

23GA/0.65 MM MICRO SCISSORS AND FORCEPS

*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

VITREORETINAL INSTRUMENTS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

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

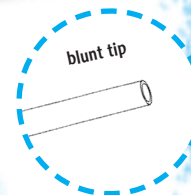
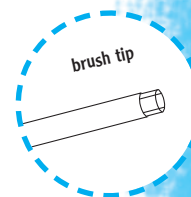
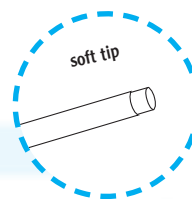


Disposable Backflush Cannulae
23GA/0.65 x 30 mm tube,
sterile (box of 10)

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

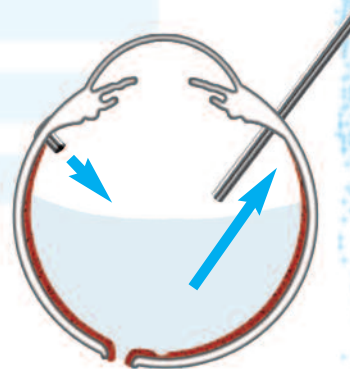
E20-731XL

extra large reservoir
for increased capacity,
allows reflux of greater
volumes of fluid

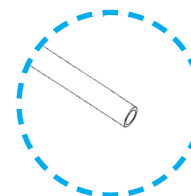


Replacement Reservoir

E20-732XL



Fluid-air exchange with simultaneous
aspiration of intravitreal fluid
through blunt tip extrusion cannula.

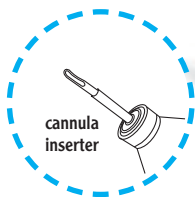


Charles Flute Cannula

A3209



23GA/25GA DISPOSABLE TROCAR CANNULA SYSTEMS



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.

protected

in use



132°/134° C
270°/273° F

Not for sale in Europe

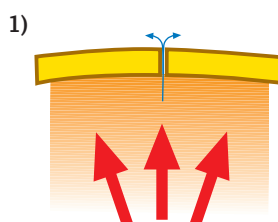


*for better incision closure
and cannulae stability*

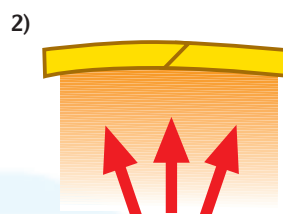
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

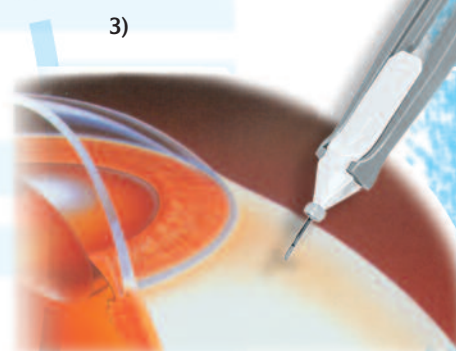
1)
The conventional method of inserting a trocar cannula vertical to the scleral surface promotes incisions that are small (0.5 to 0.6 mm), however with poor sealing ability.



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

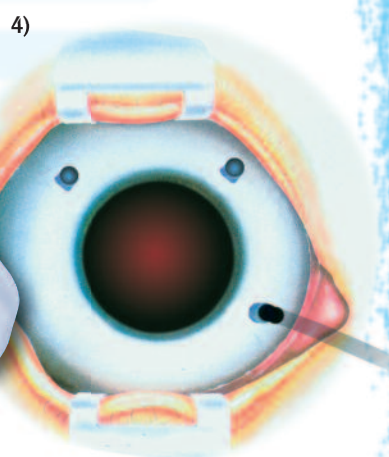
complete, each package includes:
2 x trocars with instrument cannula, 1 x inserter (dark blue) with cannula for fluid/gas, 1 infusion line, 2 x scleral plugs, 1 x scleral plug forceps, 1 fixation blade, disposable, sterile (box of 20)

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.



3B instruments
— lékařské nástroje —
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23GA/25GA DISPOSABLE PRODUCTS ON REQUEST

*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

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.



VITREORETINAL INSTRUMENTS

coagulation of small
scleral bleeders



3B instruments
— lékařské nástroje —
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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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

*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

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

marking sclerotomy site for pars plana vitrectomy

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.



IrisMate® Flexible Translimbal Iris Retractors

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

*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.

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

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

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

all **MEDICAL GRADE** materials

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**

EZChange®

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

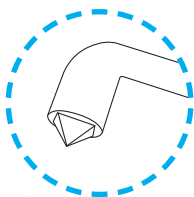
E10-010T handle only



VITREORETINAL INSTRUMENTS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



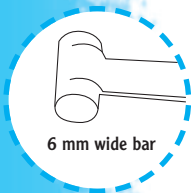
pick has sufficient sharpness
to rotate the globe during
examination



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

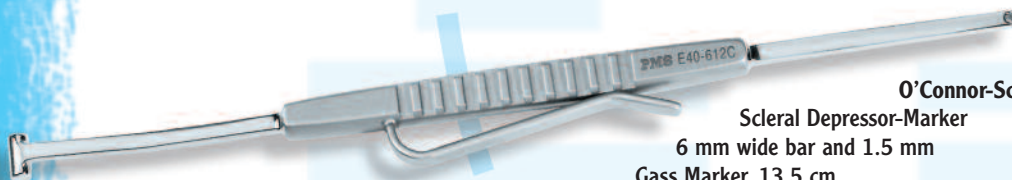
Spaide
Pediatric Scleral Depressor
curved, serrated tip, 12.5 cm
E40-611S



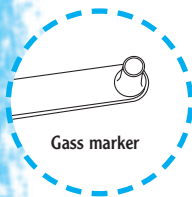
teardrop shaped tip for making a sharp
protrusion at the side of mid-peripheral
lesion or retinal tear.

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



O'Connor-Schockett
Scleral Depressor-Marker
6 mm wide bar and 1.5 mm
Gass Marker, 13.5 cm
E40-612C



threphine-like 1.5 mm tip
produces a ring shaped mark
on the sclera when pressure
is applied

Schockett
Scleral Depressor
6 mm wide bar and 2.5 mm
teardrop shaped tip, 13.5 cm
E40-613 stainless steel
E40-613T titanium



rounded end designed
for depressing sclera and
curved marking end for
reaching behind
the globe



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

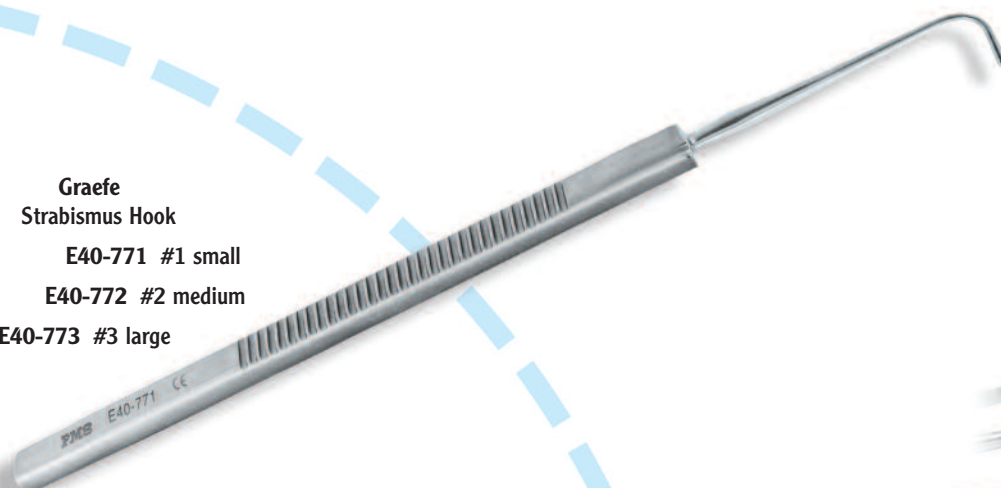
VITREORETINAL INSTRUMENTS

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

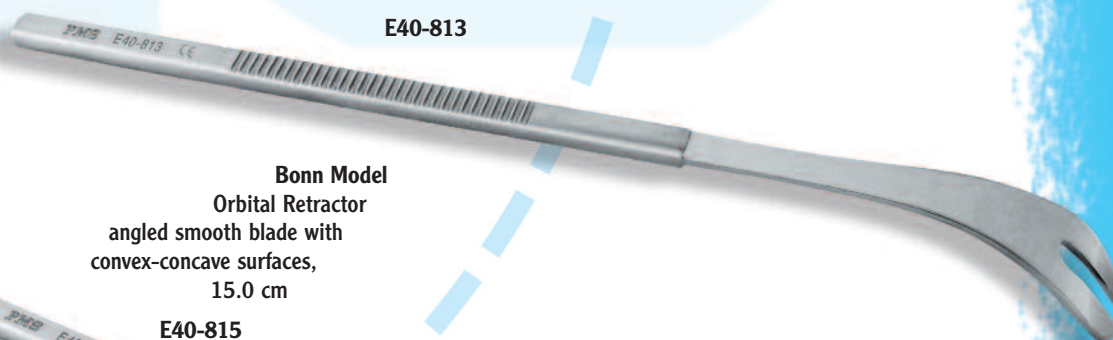


Schepens

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

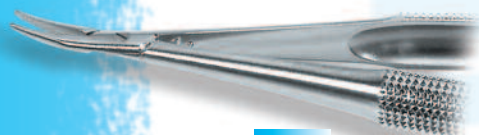
E40-815



*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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

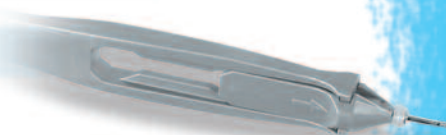


E15-355R

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

VITREORETINAL INSTRUMENTS



*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

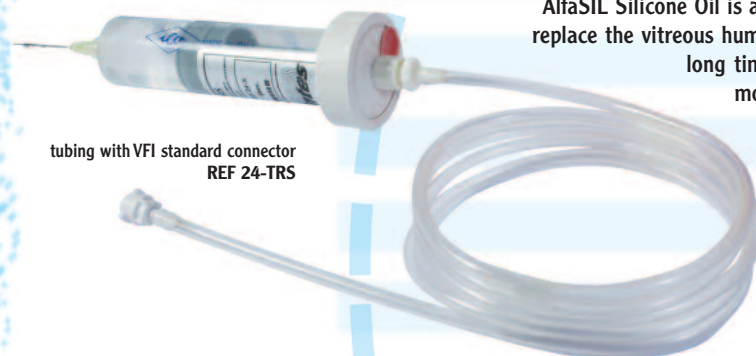
REF 24TRSB for Bausch & Lomb

REF 20L32 for Fritz Ruck

for automatic pressure injection

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.



tubing with VFI standard connector
REF 24-TRS

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

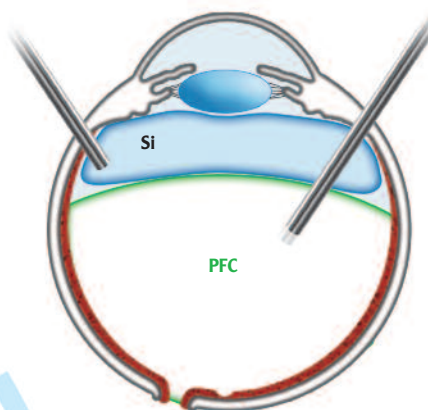
Silicone Oil SO-1000/SO-5000 is used for intraocular tamponade in severe cases of retinal detachment, e.g.

- 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.

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

The choice of viscosity offers an optimum balance between easy injection and a stable temporary tamponade.



SO-1000 exchange procedure with passive aspiration through Brush Tip Cannula



CHEMICAL COMPOSITION
see AlfaSIL REF 24

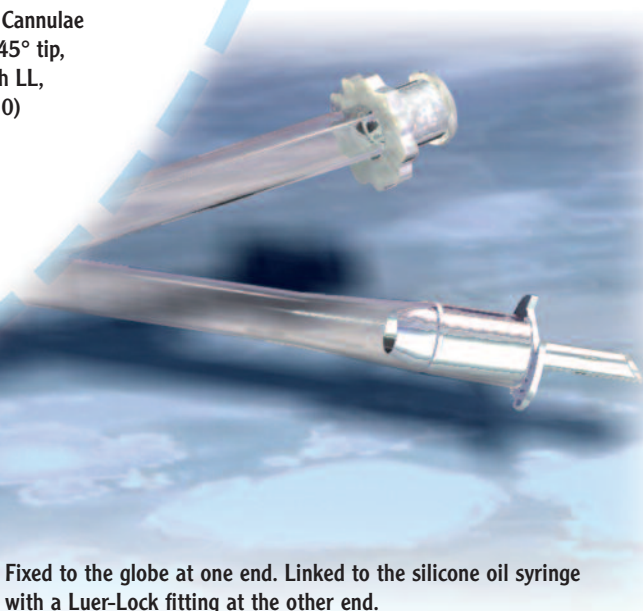
CE 0120 APPROVED FOR SALE IN ALL EUROPEAN UNION COUNTRIES

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.

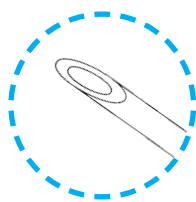


3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VFI - SILICONE OIL DISPOSABLE DELIVERY SYSTEMS

VITREORETINAL INSTRUMENTS

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

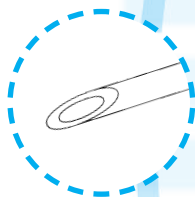
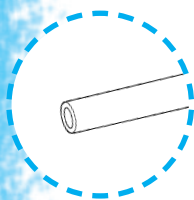
167-19 19GA/1.1 mm



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

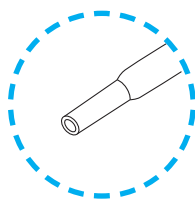
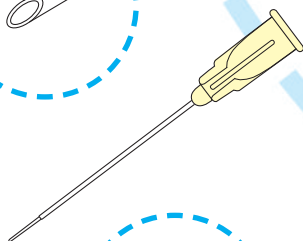
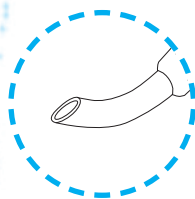
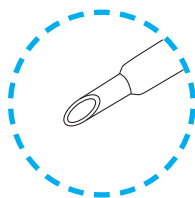
173-32 straight 3 mm bevelled tip

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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



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

VITREORETINAL INSTRUMENTS

pictures shown are smaller/larger than actual sizes indicated



*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

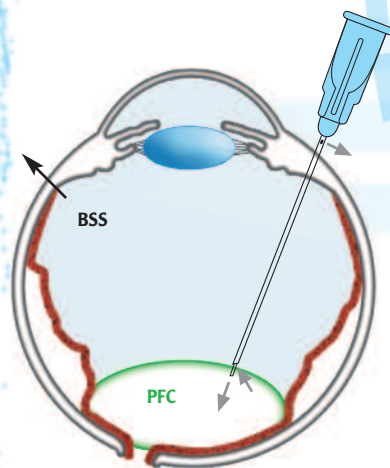
DESTINATION OF USE

Perfluorocarbon liquid is a high tensivity liquid for vitreous chamber washing during ocular surgery with a maximum time of permanence in the eye of one hour.

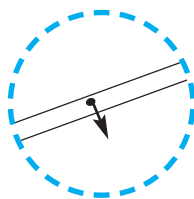
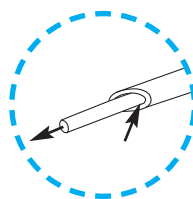
INDICATIONS FOR USE refer to page 209

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



*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: $C_{10}F_{18}$

Molecular weight: 462

Refractive index: 1.310 at 20°C

Density: 1.93 g/cm³

Boiling point: 142°C

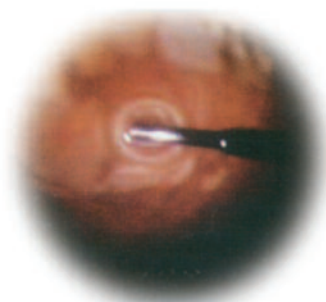
Surface tension: 19.0 at 25°C

Interface tension: 57.8 at 20°C

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

DecalineMate®
Perfluorocarbon
100% fluorinated,
sterile (vial of 7 ml)

*PFD-2000



PFC-air exchange using blunt tip
extrusion cannula



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Dual Bore PFC I/A Cannulae
disposable, sterile (box of 5)

**5191 20GA/0.9 mm

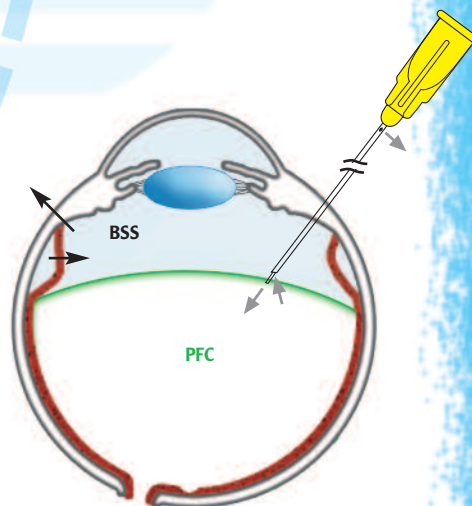
**5203 23GA/0.65 mm

*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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

VITREORETINAL INSTRUMENTS

**  Manufacturer:
MicroVision, Inc.
Seabrook, NH
USA



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

HOWARD GasMate® GAS TAMPONADES



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

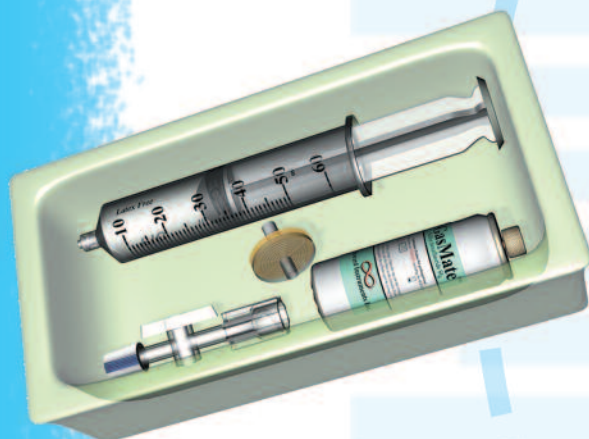
PRE-MIXED WITH DRY NITROGEN

GMC3F8-MIXED C3F8 Perfluoropropane

GMC2F6-MIXED C2F6 Hexafluoroethane

GMSF6-MIXED SF6 Sulfur Hexafluoride

contact us for specific mixtures



GasMate® Kit

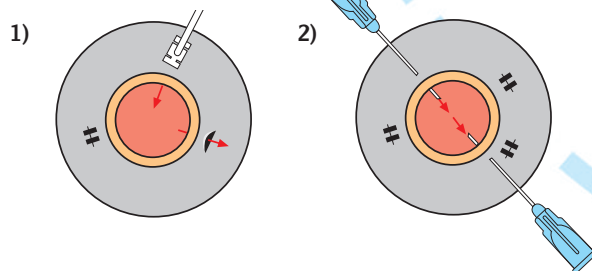
complete, each kit includes:

- 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

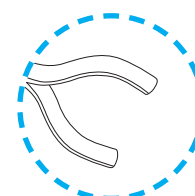
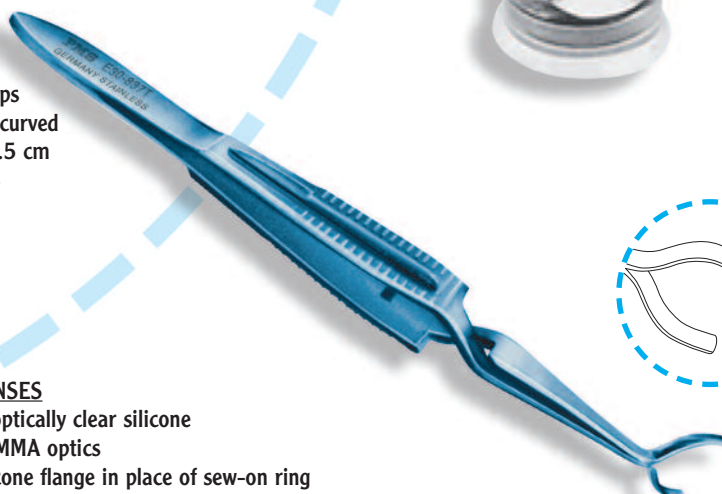


Landers

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)

VITREORETINAL INSTRUMENTS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

RETINAL IMPLANTS ON REQUEST

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.

EZCut®

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



VITREORETINAL INSTRUMENTS

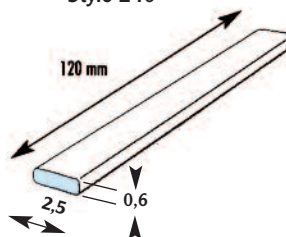


3B instruments
— lékařské nástroje —
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VITREORETINAL INSTRUMENTS

Solid Silicone Implants

Style 240



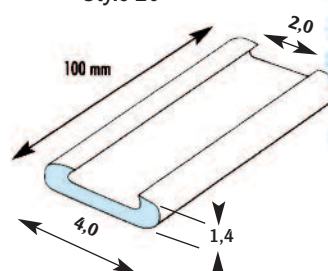
Bands

Circling styles:
40, 41, 42, 240

Strips

Grooved styles:
20, 31, 32, 219, 220, 225

Style 20



Tires

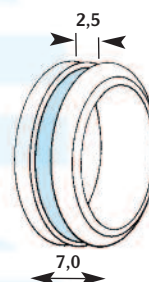
Asymmetrical styles:
275, 276, 278, 280



Concave styles:
277, 279



Convex styles:
286, 287, 287WG, 289

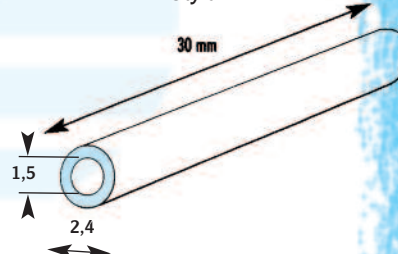


Style 277

Sleeves

Round styles:
70, 71, 72, 270

Style 72



Watzke
Sleeve Spreading Forceps
angled, finely serrated jaws,
11.5 cm

E30-835

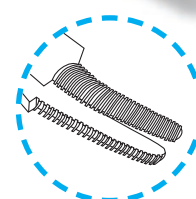
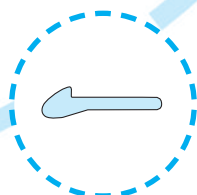
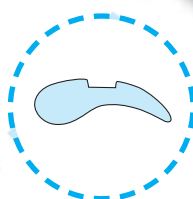
ideal to fix sleeve onto circling bands

Radial Wedges

styles: 135, 137

Meridionales

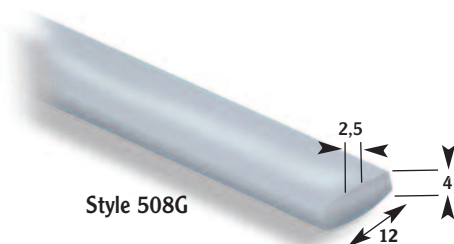
styles: 103, 106, 112



all dimensions are in millimeters, drawings shown are larger than actual sizes indicated



SCLERAL SPONGE IMPLANTS ON REQUEST



Style 508G

Gooved

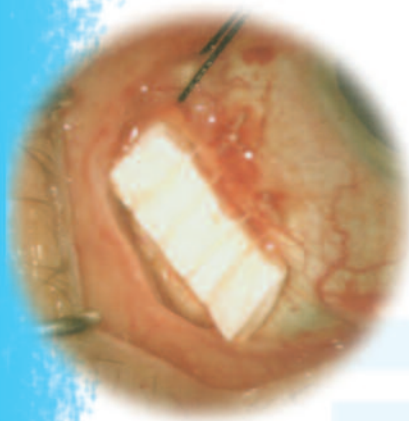
Styles: 506G, 507G, 508G, 509G, 516G, 519G



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

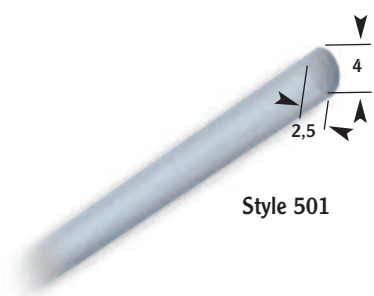
Individually sterile packaged (box of 5).



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



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

POPULAR EYE INSTRUMENTS 244-251

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BIPOLAR FORCEPS 269

PMS OPHTHALMIC
CATALOGUES 270





for
"Little People"

extra small version of popular eye speculae
for routine premature infant lid retraction

3B instruments
— lékařské nástroje —

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Barraquer, wire

E40-003 premature, 3 mm

E40-005 newborn, 5 mm

E40-007 infant, 7 mm

E40-009 child, 9 mm

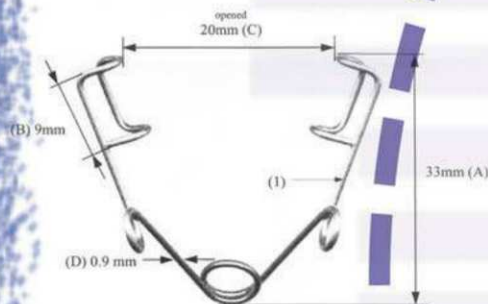
Vinzenz, wire

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



SPECIALITIES



for "Oriental Eyes"

modified version of popular eye speculae
especially designed for oriental eyes

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

Durrie

Slade

Greene

Alio

pictures are not
actual size

SPECIALITIES



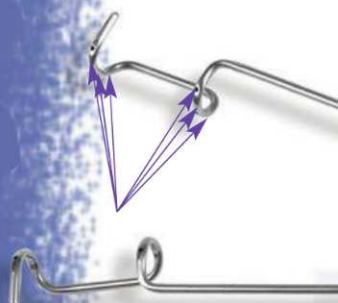
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

INNOVATIVE ASPIRATING SPECULAE

*designed for
continuous
aspiration*



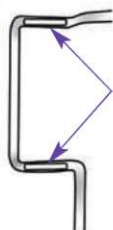
Jaffe, wire
Aspirating Lid Retractor Set
7 ports closed 17 mm blade
E40-041A



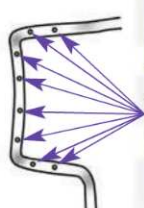
Pannu-Kratz, wire
Aspirating Speculum
6 ports open 15 mm blades
E40-033A

New

for improved
fluid control



E40-100AL
Lieberman K-Wire, 4.5 mm long
slit ports, open 15 mm blade



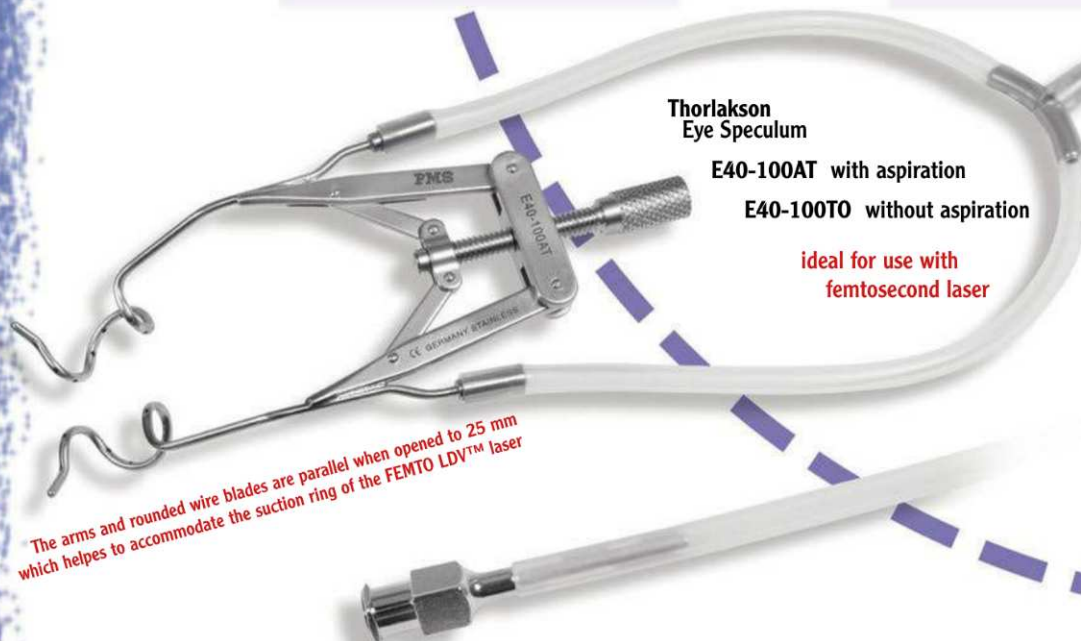
E40-100AT
Thorlakson, 8 ports
open 12 mm blade



E40-100AC
Chu Reversible, 3 ports
solid 15 mm blade

*can be used with operating
room suction or a 50 cc syringe*

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



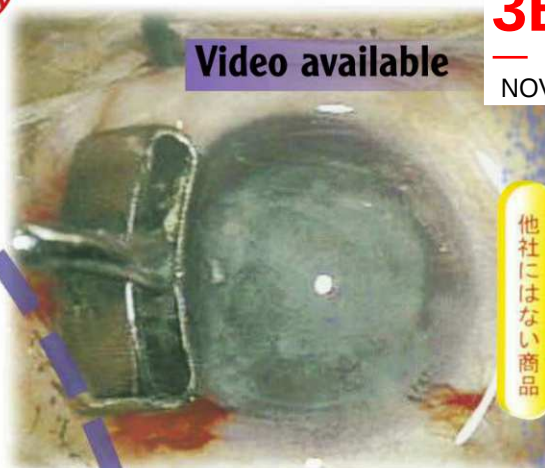
SuperDrainer for Cataract/Refractive Surgery

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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

designed by Dr. Syuji Maeda,
Maeda Ophthalmic Clinic, Aizuwakamatsu City, Japan

SPECIALITIES

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

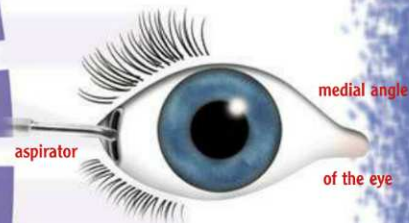
*We turn your good ideas
into reality.*

SuperDrainer Suction Speculum

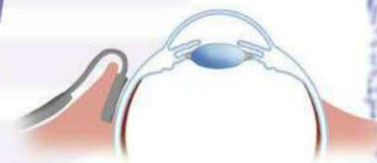
E40-016A Markomanolakis
long suction tube with bevel blunt tip

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



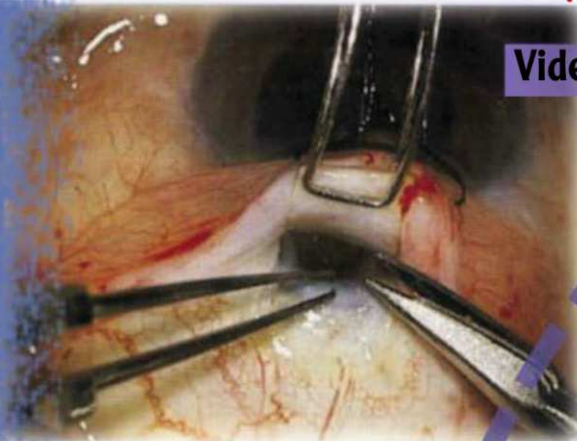
SuperDrainer inserted into the conjunctival sac of the eye ball



15 mm blades

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

BENKEIKUN Scleral Flap Retractor



Video available

designed by Prof. Ryouji Yamakawa, University of Kurume

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.

Yamakawa
Scleral Flap Retractor
E40-050



1:1

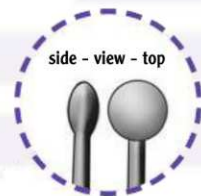
Spring design 0.17g wire construction features broad, parallel closing jaws with finely sandblasted inside surfaces for secure, atraumatic handling of the scleral flap and other delicate tissue. **Available on request:** E30-774 Applying Forceps for Scleral Flap Retractor.

Metric dimensions (mm)	
Weight	0.17g
Length	11
Width of jaws	3,5
Closing force	37,8 gms

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

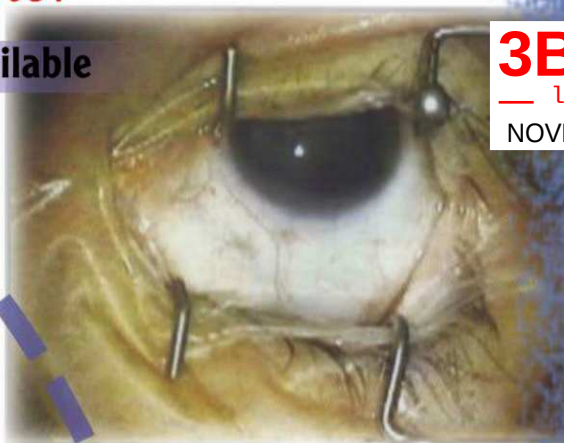


KINOKO - Lid Retractor

Video available

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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.



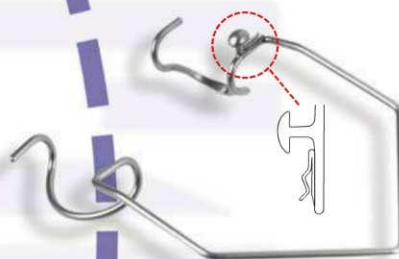
designed by Syuji Maeda, MD,
Maeda Ophthalmic Clinic, Aizuwakamatsu City, Japan

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



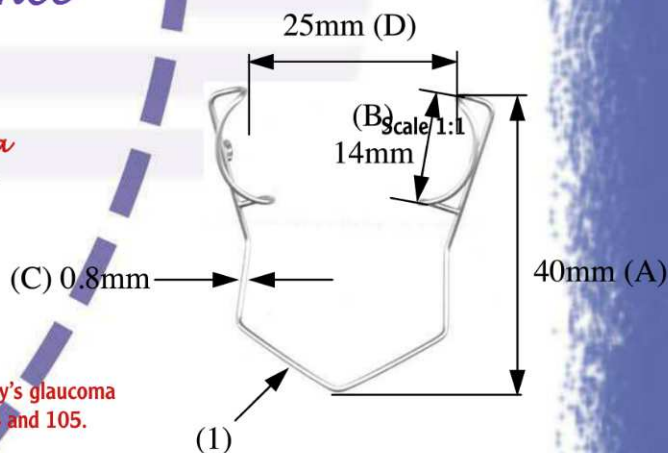
他社にはない商品

...be part of our experience

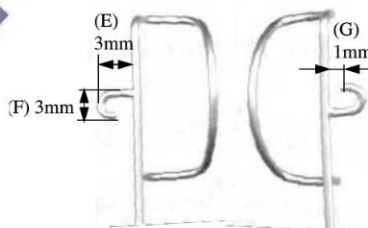
Maeda

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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

...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 Pierse, 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

curved and vaulted
(Giannetti)

3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

for MICS through 1.5 mm incision

Auffahrt
cross-action curved and vaulted shafts,
(Giannetti type) fine pointed tips, 9.5 cm

E30-598 flat serrated handle

E30-599 round knurled handle

New

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.

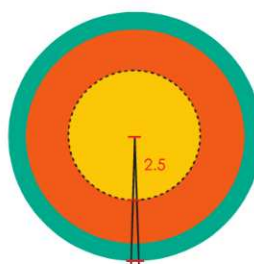
for 2.2 mm sub incision

*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

SPECIALITIES



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

New

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.

Girard

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

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

Kraff (Castroviejo)

Kraff-Bonn

Maumenee-Colibri

Utrata straight

Masket curved

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 !

shafts angled 10 mm made of one-piece stainless steel

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

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



TP15611



TP15613



TP15615

3B instruments

— lékařské nástroje —

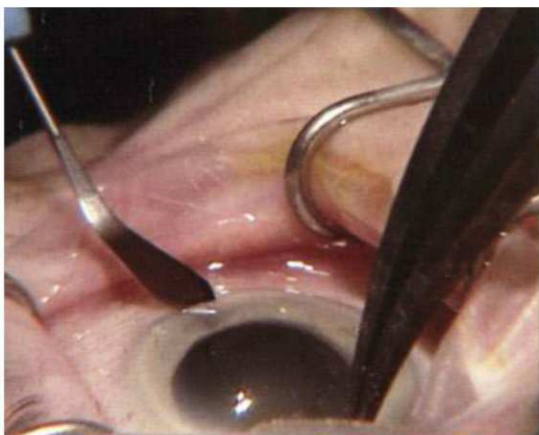
NOVÉ MĚSTO NA MORAVĚ

SPECIALITIES

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

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



French Style

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

SPECIALITIES



FS13247



FS13246



FS17151



FS13239



FS13240



FS13243



FS13265



FS17161

Pinces à monofilament

(à plateaux de 6 mm, ultra affinés)

FS13241 de Tennant, droite

FS13243 de Tennant, courbe

Pinces de McPherson

(mors à plateaux ultra fins, coudée à...)

FS13265 de McPherson, ... 5 mm

FS13261 de Waring-, ... 7 mm

FS13242 de Bechert-, ... 11 mm

Pinces 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

Pinces 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

Pinces pour implants pliables

(mors polis haute-finition coudée à...)

FS17151 de Buratto, biconvex, 9 mm

FS17161 de Crozafon, arrondis 11 mm

Pinces 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



FS17160



*FS18259



FS17165

*avec les lignes Laser 2.5 et 5 mm
pour mesurer la capsulorhexis



d'autres micro ciseaux à cornée, conjonctive et ténatomie 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 droits

E25-403 courbes

Micro-ciseaux de Gills -

(lames pointues, affinées de 11 mm)

E25-430 Welsh, droits

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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



FS18210



FS18216



FS18227



FS13225



FS13227



FS17157



FS18039



FS18105

Crochets manipulateurs à phaco

FS17157 de Crozafor 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

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



FS07820



FS07825

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



SPECIALTIES



Nouvelle gamme de canule pour aspiration avec embout silicone



New

IRRIGATION



2 orifices

sur les côtés



orifice supérieur

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 Neuhaus, coudé à fourche



E20-480

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



E20-482



E20-489



E20-485

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

*Gamme de canule pour aspiration avec embout silicone

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

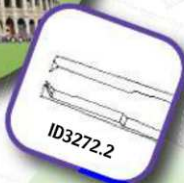
New

Italian Design

Progettata per le migliori prestazioni, performance ottimali e precisione nel controllo di ogni procedura chirurgica.

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

SPECIALITIES



Pinze serrafilili

(con piani delicati da 6 mm)

ID3207.1 Tennant, retta

ID3207.0 Tennant, curva

Pinze serrafilili, 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 ppf)

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 ppf)

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 Crozafoon, cilindriche da 11 mm

Pinze capsuloressi per MICS-MCCS

(angolate da 11 mm, apice acuto ...)

*ID3131.0 Corydon, dorso curvo

ID3131.1 Crozafoon, 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



3B instruments
— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

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

photo scala 0.8



(consigliato per suture 8-0 a 11-0)



SPECIALTIES



strumenti con manici in titanio colore

I manici sono disponibili anche in acciaio.
Aggiungere la "S" al codice

Manipolatori del nucleo

(con manico colore viola)

*ID2192.2 Buratto, punta retta ad oliva

*ID2192.7 Ligabue, punta 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

punte in acciaio, angolate da 11 mm,
con braccio: *retto - *curvo

E40-011

E40-031

ID2182.2

ID2407.1

ID2407.2

ID2192.2

ID2192.7

ID2192.9

ID2185.2

ID2180.6

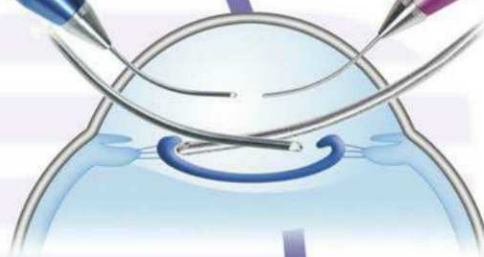
ID2193.1

ID2180.4

**Sistema nuova coassiale I/A
per Irrigazione/Aspirazione**

 composto da manico e
punte intercambiabili


INFUSIONE



ASPIRAZIONE

Monopezzo 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

Monopezzo per aspirazione di colore oro
 (con cannula curva a foro superiore Ø 0.35 mm)

E20-437 Ø 0.7 mm, punta sabbiata

E20-438 Ø 0.8 mm, punta sabbiata

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

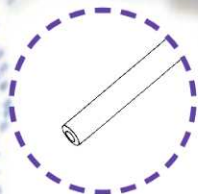
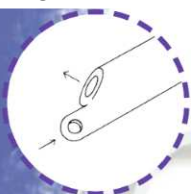
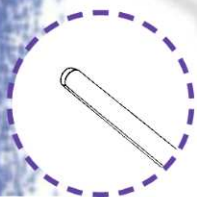
100%  made

3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

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



Barraquer, wire
E40-011 adult size, 15 mm
E40-012 child size, 10 mm

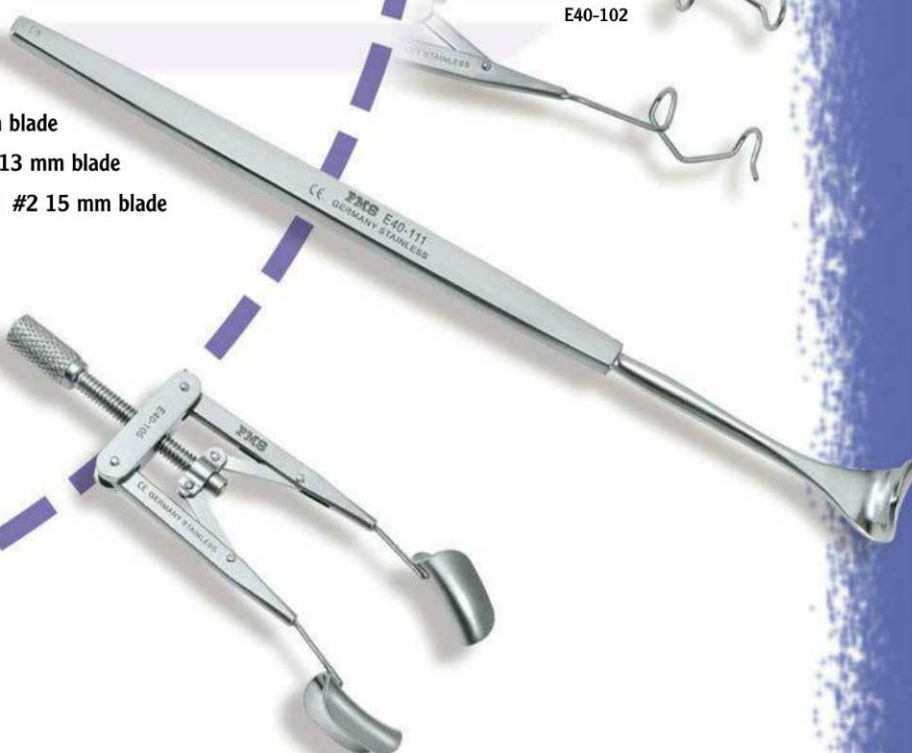
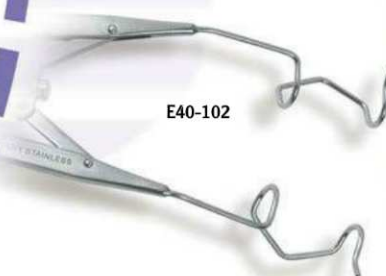
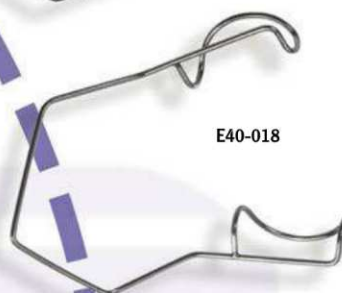
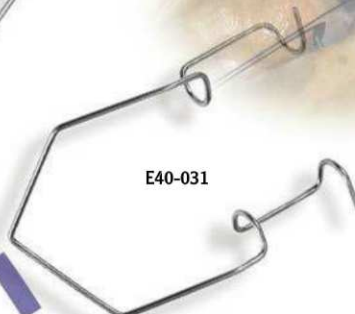
Kratz-Barraquer, wire
E40-031 adult size, 15 mm
E40-032 child size, 10 mm
E40-033 adult size, 15 mm
 heavy 1 mm wire

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



SPECIALITIES



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

*... exclusively produced
in Tuttlingen* home of the instrument making
industry for almost 200 years

SPECIALITIES



E15-611



E15-465



E15-656



E15-613



E15-610



E15-423



E15-418



E15-429

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**

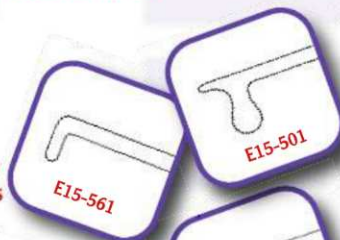
PHACO SPLITTER & CHOPPERS

(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**



E15-561



E15-501



E15-567

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**



E15-408



E15-607

Graefe
Strabismus Hook

E40-771 #1 small
E40-772 #2 medium
E40-773 #3 large



shafts angled 10 mm from tips are made of
one-piece medical grade stainless steel





... hand-crafted
for hand use

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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



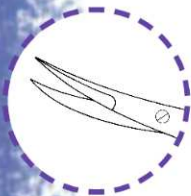
SPECIALITIES



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

POPULAR EYE INSTRUMENTS

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

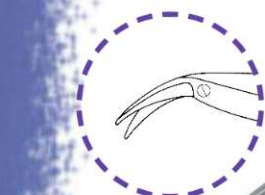
Universal Corneal Scissors

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

SPECIALITIES

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

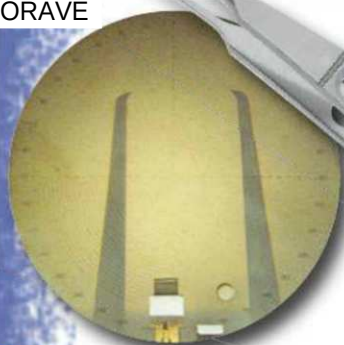
Bonn
smooth 4 mm platform,
straight 1 x 2 teeth, 0.12 mm
E30-410 short model, 7.2 cm
E30-430 long model, 9.5 cm

These forceps are ideal for manipulating
delicate tissue, e.g. fixation of the corneal
flap and continued suturing for cataract
and corneal grafts.

SPECIALITIES

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

*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 ...

SPECIALITIES

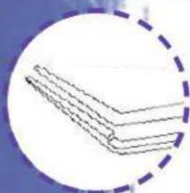
McPherson
Tying Forceps
smooth platform, 11.0 cm

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



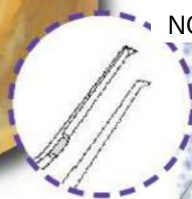
3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

... 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

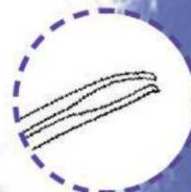
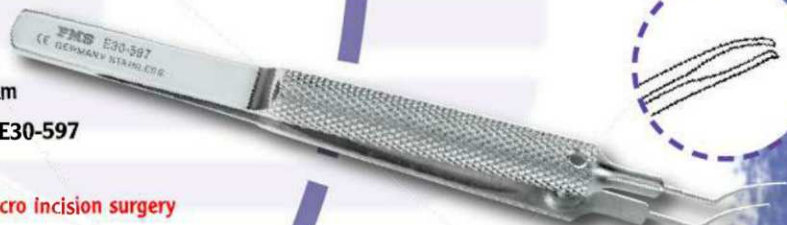
E30-590T titanium



Giannetti 1.8 mm

MICS Capsulorhexis Forceps
vaulted and curved 11 mm shafts,
fine pointed grasping tips, 10.0 cm

E30-597

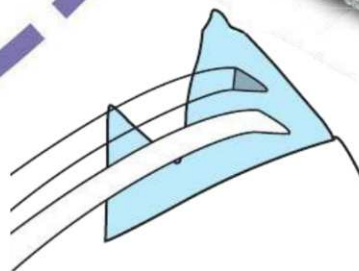


ideal for CCC during micro incision surgery

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.

SPECIALITIES

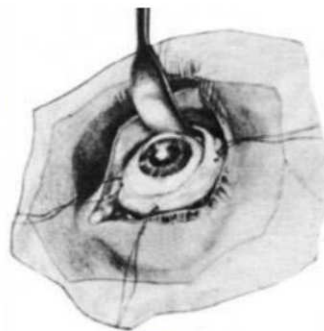


all instruments are also available in light weight, durable titanium, when ordering please add "T" to end of catalog number

3B instruments
— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

SPECIALITIES



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**

Micro
Tissue Retractors
curved thin blade

E40-807 7 mm wide

E40-809 9 mm wide

E40-811 11 mm wide

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.

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

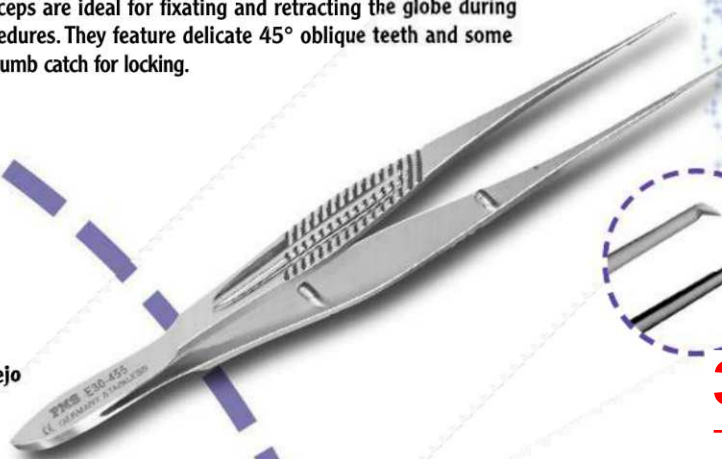
E40-793 Helveston Muscle Hook, blunt 12 mm tip

E40-557T Scleral Marking Ruler, curved 15 mm blade



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

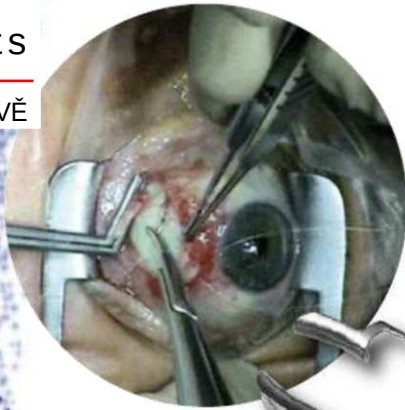


E42-132 Strabismus Set continued...

- 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

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



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

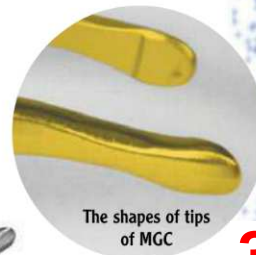
Wright, titanium
Recession Double Muscle Hook
angled 11.5 mm working part, 14.0 cm
E40-786T

Troutman
Superior Rectus Forceps
angled 10 mm shafts, oblique
1 x 2 heavy teeth, 10.7 cm
E30-223

SPECIALITIES



*Drainage is the
treatment procedure
of choice*



The shapes of tips
of MGC

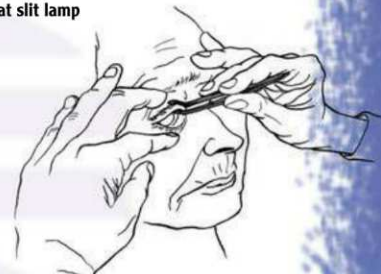
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

MGD at slit lamp



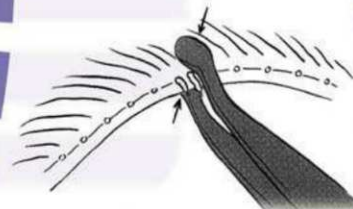
eyelids are opened lightly with fingers

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



**Berke
Ptosis 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**

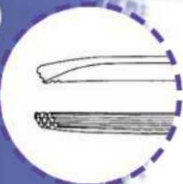
consisting of 1 each or (x) instruments:

- 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

+ instruments illustrated



**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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



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

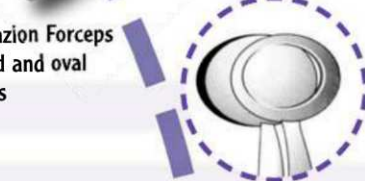
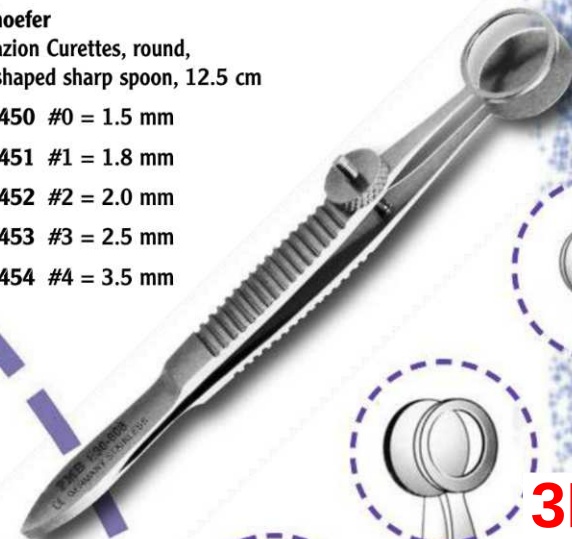
*on request also
available in titanium

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



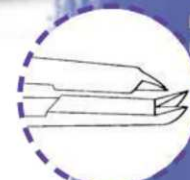
English pattern

Moorfield's
Conjunctiva Forceps
with serrations and groove

E30-385 fine, 10.0 cm
E30-386 standard, 10.7 cm



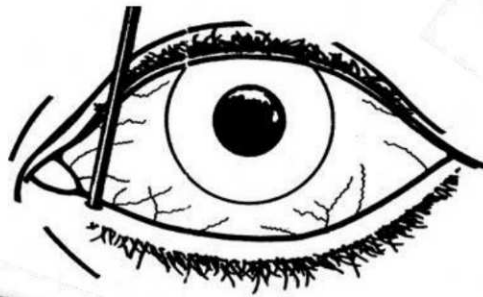
forceps



SPECIALTIES



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



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

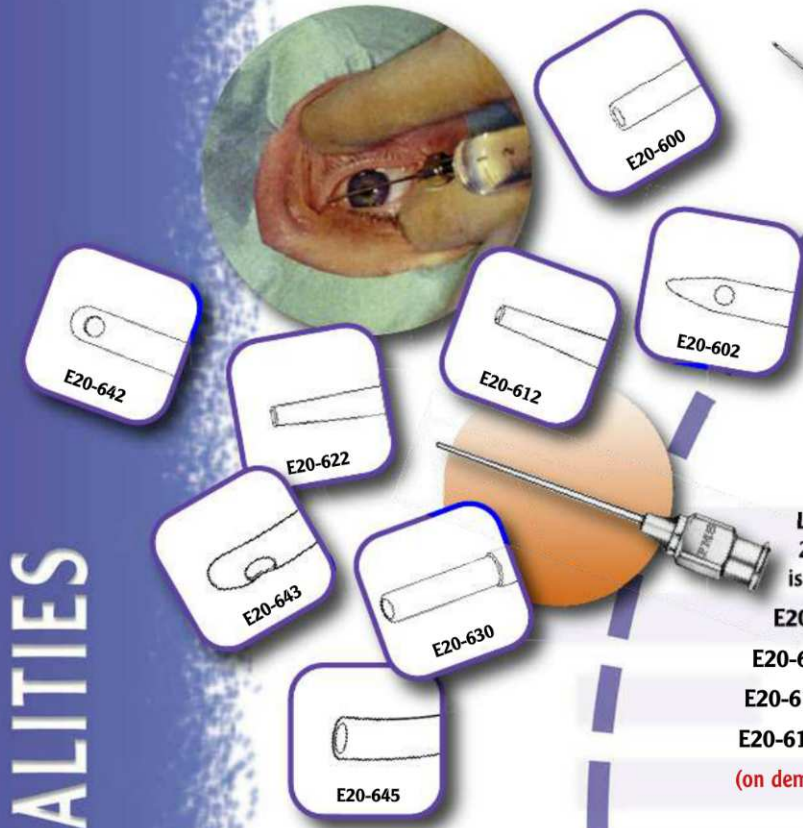
cylindrical tip

tapered point

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

Cannulae are uniquely designed for their special application; atraumatic irrigation of the punctum or lacrimal duct, for punctal dilation and irrigation of the nasolacrimal system.



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°

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

Gauge	ID (in)	ID (mm)	OD (in)	OD (mm)
23g	.013	.33	.025	.60
25g	.010	.25	.020	.50

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



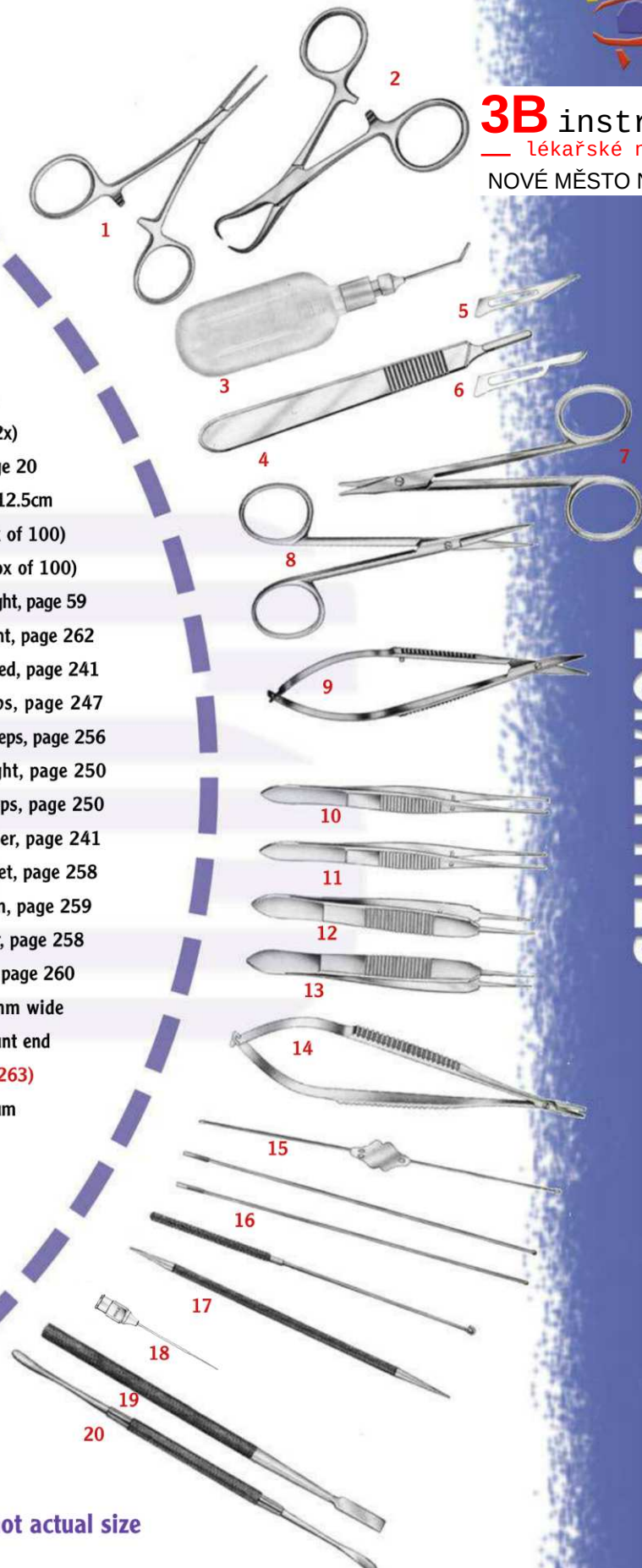
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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

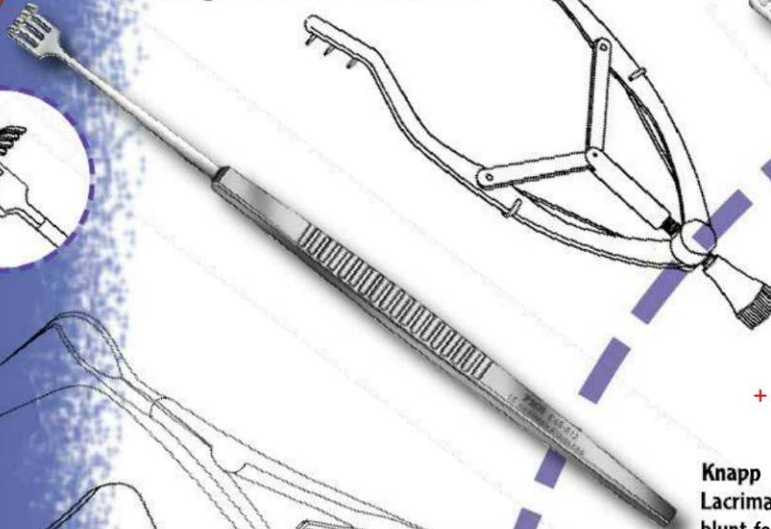


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SPECIALITIES



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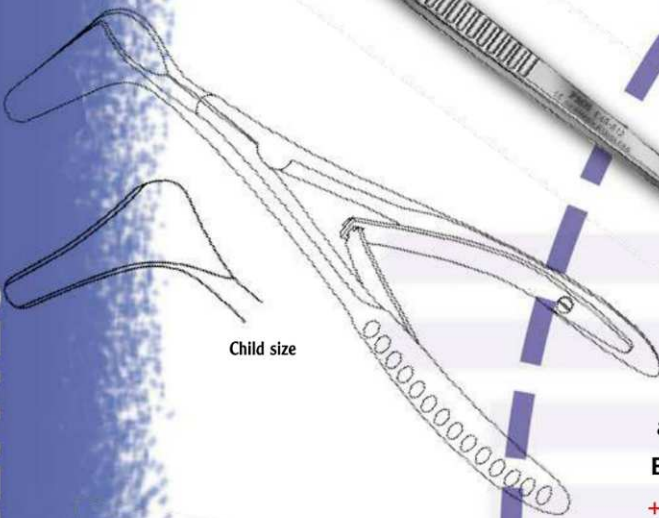


Knapp
Lacrimal Retractor
blunt four prongs, 13.5 cm
+ E40-812



Stevenson
Lacrimal Sac Retractor
curved 3x3 teeth, 9.0 cm
+ E40-823

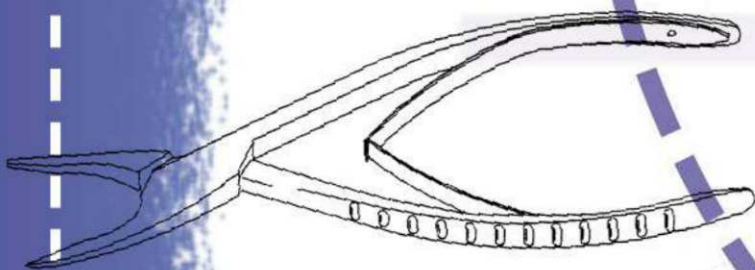
Agricola
Lacrimal Sac Retractor
3x3 sharp prongs, 4.5 cm
E40-820



Hartmann-Halle
Nasal Speculum
aseptic joint (dismantable), 15.5 cm
E40-982 child size
+ E40-983 adult size



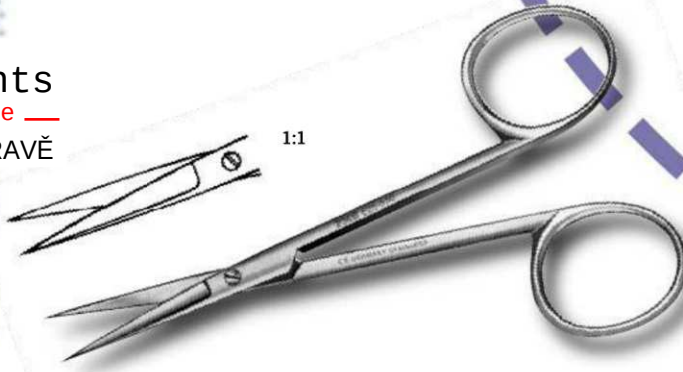
Gerzog
Surgical Mallet
lead filled stainless steel head,
30 mm dia. head, 400g, 18.0 cm
+ E40-934



Beyer
Bone Rongeur
curved 3 mm jaws, 18.0 cm
+ E30-991



Worst
Lacrimal Pigtail Probe
with suture eyes, 14.0 cm
+ E40-922 adult size
E40-921 child size



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

SPECIALITIES

3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



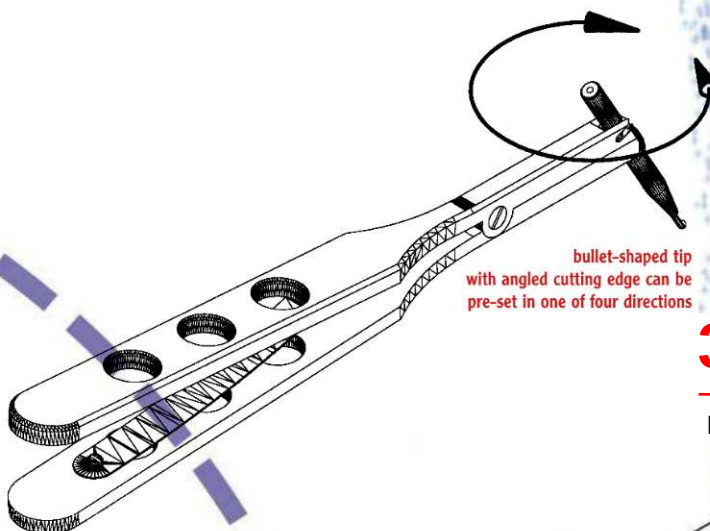
3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

SPECIALITIES

Luntz-Dodick
Trabeculectomy Punch
exchangeable cutting head
of 1.0 mm $\varnothing$ with 0.5 mm
deep bite, 11.5 cm

E40-995

ideal for scleral tunnel insertion

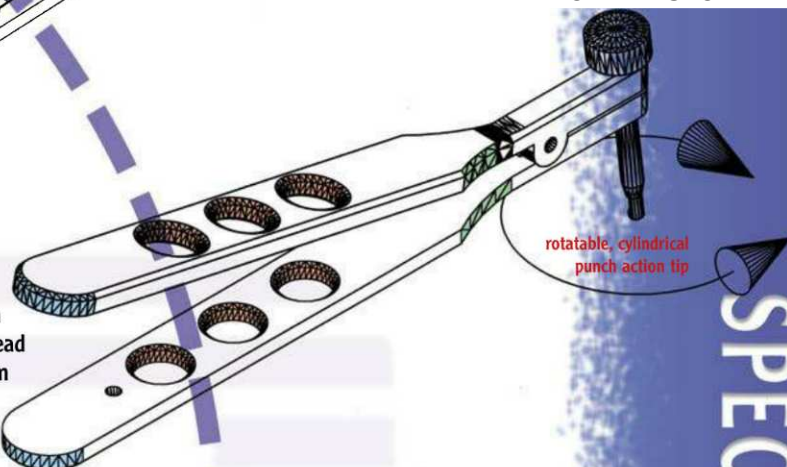


bullet-shaped tip
with angled cutting edge can be
pre-set in one of four directions

Gass
Corneoscleral Punch
rotatable 1.5 mm diameter head
with 0.75 mm deep bite, 9.0 cm

E40-996

ideal for clean, cylindrical, vertical holes

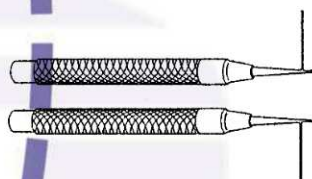


rotatable, cylindrical
punch action tip

Harms
Trabeculotomy Probe
9 mm pointed tips with 3 mm spread, 4.8 cm

E40-928 right

E40-929 left

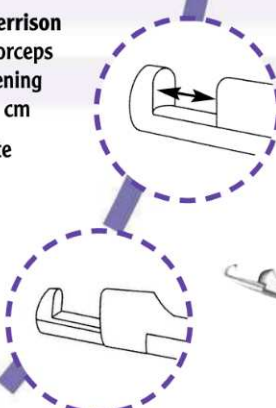


Kerrison
Sphenoidal Punch Forceps
up-cutting 90° jaws, 9 mm opening
length of shaft 80 mm, 21 .0 cm

+ 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

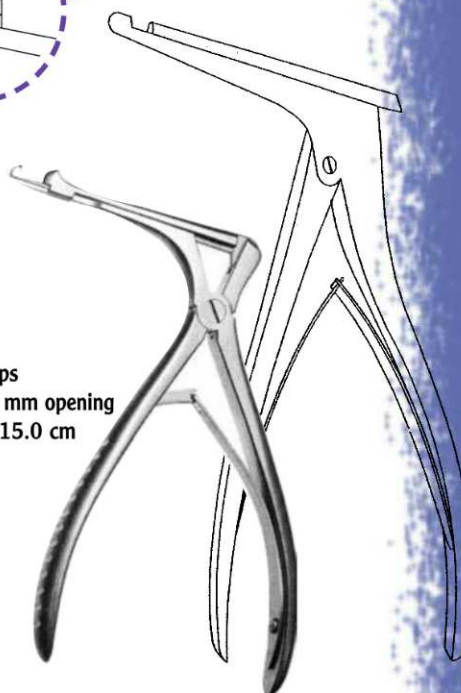


Citelli
Sphenoidal Punch Forceps
thru-cutting 90° jaws, 7 mm opening
length of shaft 80 mm, 15.0 cm

E30-981 1.5 mm bite

E30-982 2.0 mm bite

E30-983 3.0 mm bite





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

Corneal Burr (Rust Ring Remover)
battery powered, complete with
two burs 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.

The diamond produces a very
smooth healing surface in a
very short time

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

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



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

Ramsey
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

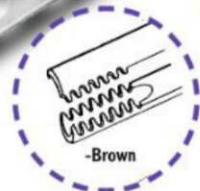
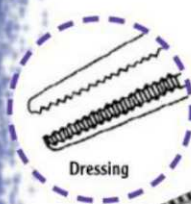
E30-132 delicate dressing, 1.2 mm jaws

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

3B instruments

— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

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

SPECIALITIES



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



Schioetz 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)

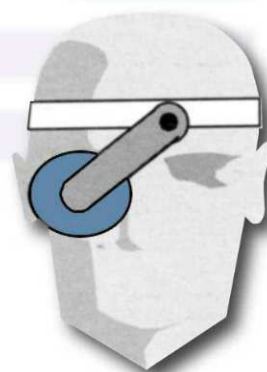
* Caution: these products are made of
latex which may causes allergic reactions

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 Schioetz Tonometer Specification #3, stainless steel construction, inclined scale, page 268

SPECIALITIES

BATTERY CAUTERIES



3B instruments
— lékařské nástroje —

NOVÉ MĚSTO NA MORAVĚ

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, mini-
mizing unwanted tissue adhesion

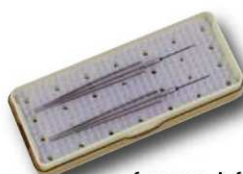


Bipolar Cord, reusable
with round 2 pin forceps connector and
banana jacks fitting to unit, 12"/3.0 m
long

80100025



*safely stores your
micro instruments*



for more information
please refer to page 294

SPECIALITIES

PMS



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

**EYE CATALOGUES
ON REQUEST**

www.pms-tuttlingen.de

**BASIC EYE INSTRUMENTS
E10-001B**

**TITANIUM EYE INSTRUMENTS
E10-001T**

**CATARACT INSTRUMENTS
E10-001C**

**KERATOREFRACTIVE INSTRUMENTS
E10-001K**

**VITREORETINAL INSTRUMENTS
E10-001V**

**SPECIALITY INSTRUMENTS
E10-001S**

**STERILIZATION
E10-001E**

SPECIALITIES

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

REPROCESSING & IMPORTANT SYMBOLS 288/289

EZHOLD® INSTRUMENT CASSETTES/BOXES 290-291

EZHOLD® INSTRUMENT TRAYS 292

SILICONE RACKS AND NAP PLATES ... 293

LIGHTWEIGHT PLASTIC TRAYS 294

CARE & MAINTENANCE
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3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ

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**



STERILISING EQUIPMENT

STERILISING EQUIPMENT

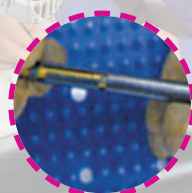
Everything you need to know about the proper care and maintenance of microsurgical instruments please contact

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.





3B instruments
— lékařské nástroje —
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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.



STERILISING EQUIPMENT

PMS EZWash® TRAY-IN-TRAY SYSTEM



3B instruments
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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



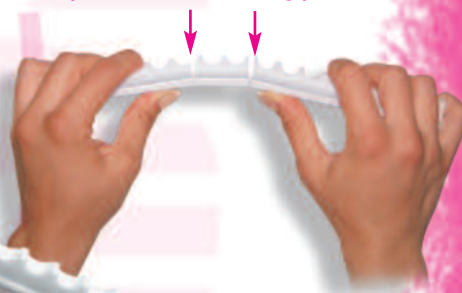
EZHold®

Instrument Holding Bar
16-slots Teflon profile, 260 mm long,
complete with set of screws and plates

E45-104

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.

easy to break due to
pre-determined breaking points



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.



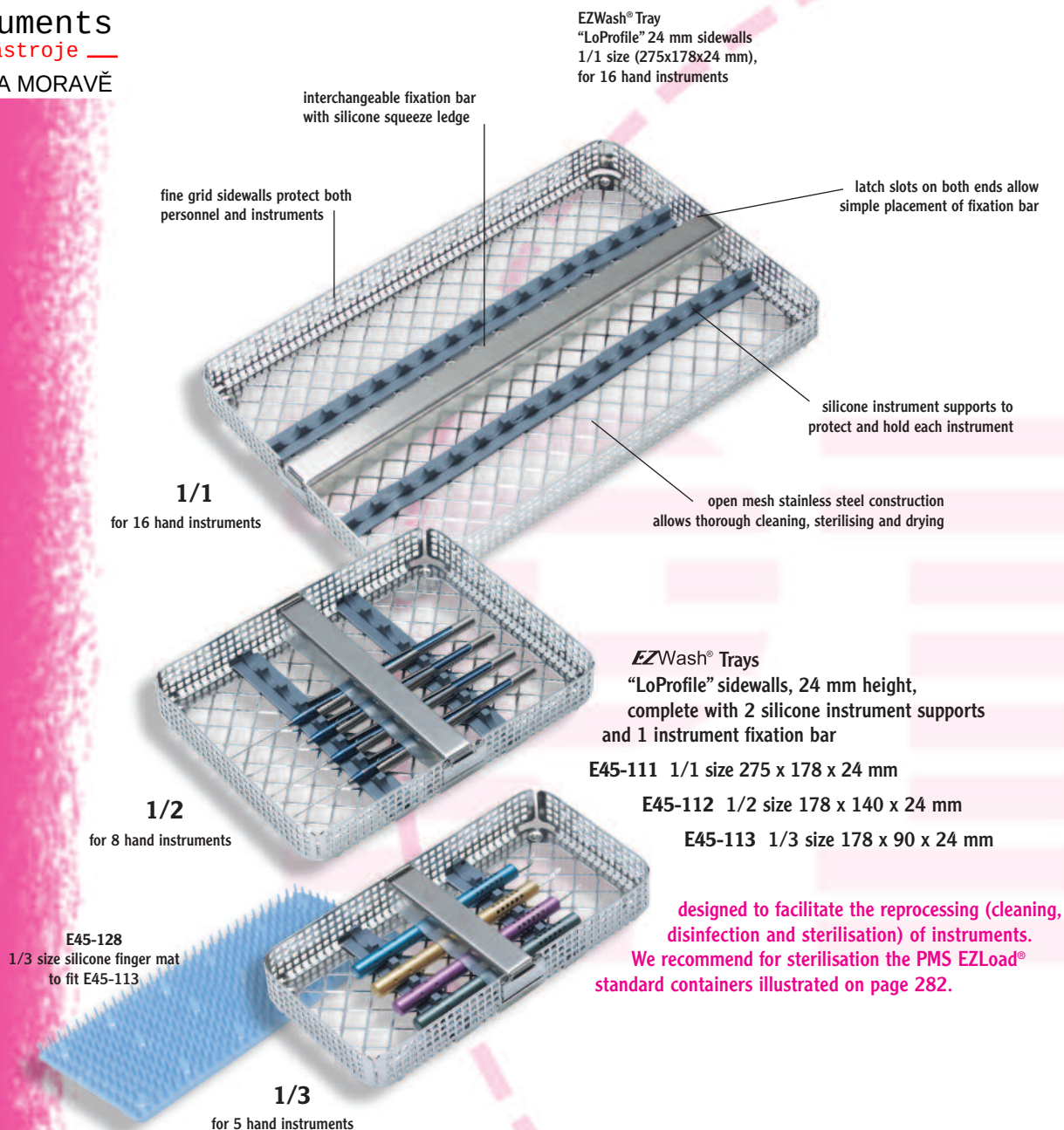
STERILISING EQUIPMENT



Created to meet both the growing demand toward standardisation of instruments sets and your individualised surgical needs.

3B instruments
— lékařské nástroje —
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STERILISING EQUIPMENT



The following instrument holding devices fit into the **EZWash®** 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.

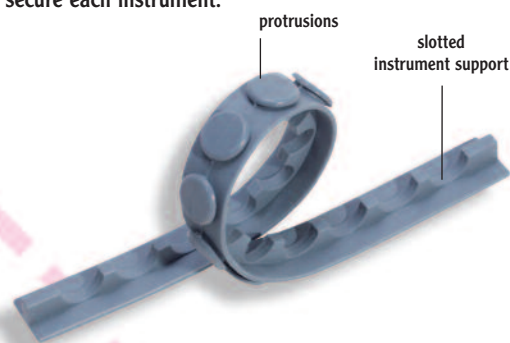
External dimension (mm)	Tray sizes	with silicone support	with silicone finger mat	with silicone nap plate	holding capacity
275 x 178 x 24	1/1	E45-111	*E45-121	*E45-131	16 + items
178 x 140 x 24	1/2	E45-112	*E45-122	*E45-132	8 +
178 x 90 x 24	1/3	E45-113	*E45-123	*E45-133	5 +

PMS **EZWash®** 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

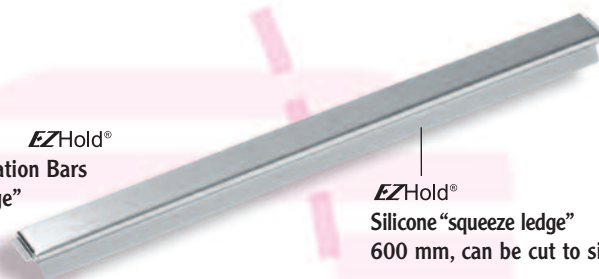
Instrument holding devices and silicone finger mats are ideally suited to secure each instrument.

EZHold®
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

EZHold®
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

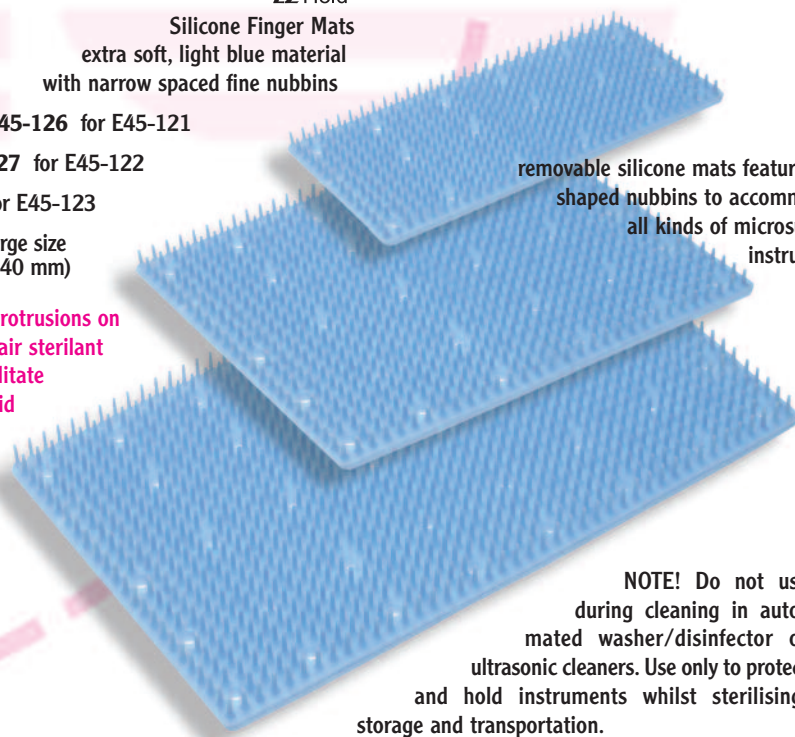


EZHold®
Silicone "squeeze ledge"
600 mm, can be cut to size
E45-119

interchangeable instrument fixation bars for horizontal and/or vertical placement

extra soft material to prevent damage to the instrument surface and its function

EZHold®
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)



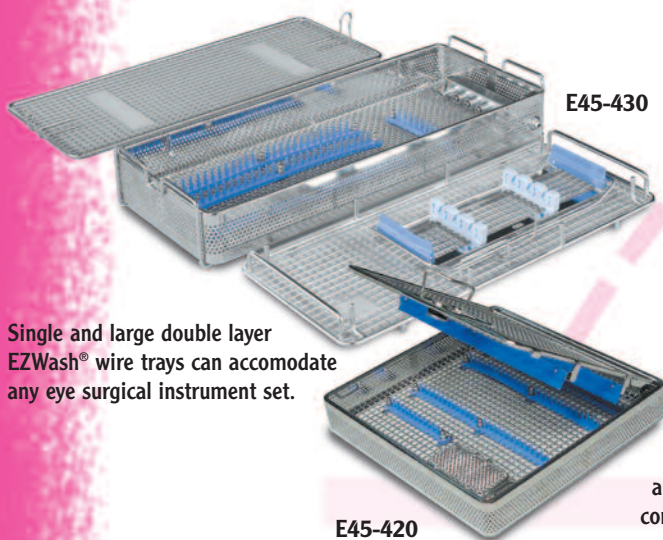
removable silicone mats feature cone shaped nubbins to accommodate all kinds of microsurgical instruments

with venting holes, raised protrusions on the underside to enhance air sterilant penetration and to facilitate rapid drainage of fluid

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

FEATURES

TOTAL INTERNAL CUSTOMISATION

Hand tailored accommodation for your instrument sets that results in zero instrument movement.

PERFORATED SHEET METAL WALLS

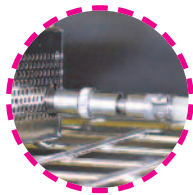
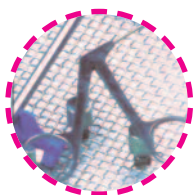
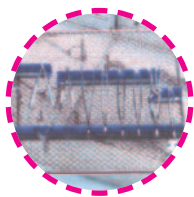
Fine grid sidewalls protect both personnel and instruments.

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

PMS



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

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

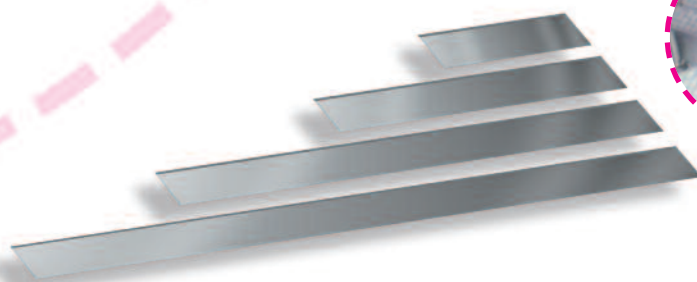
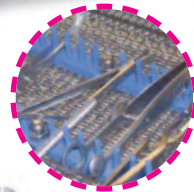
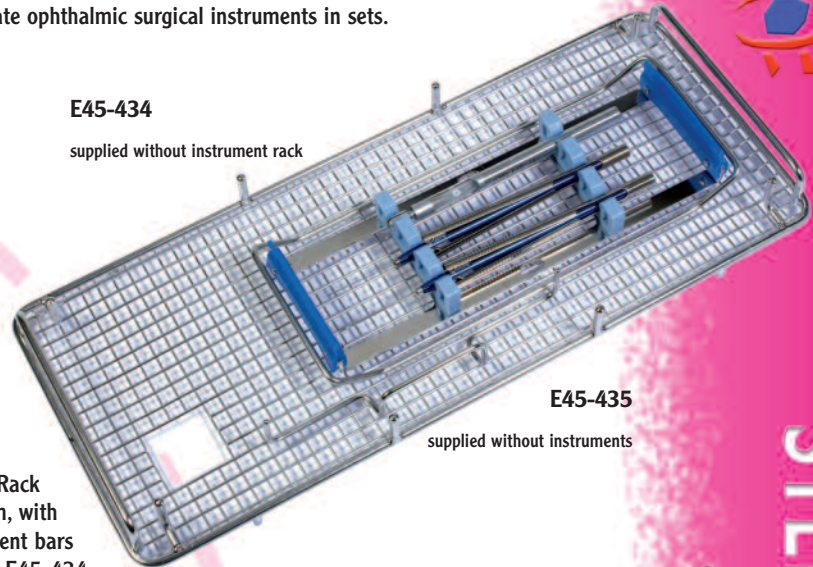
E45-437
cannula bar can be elevated 90° for convenient placement
or removal of individual cannulae and I/A handpieces

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

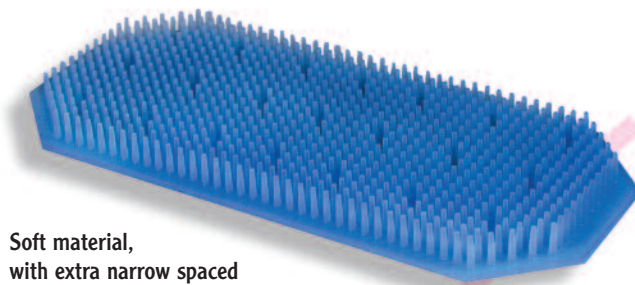


3B instruments

— lékařské nástroje —
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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

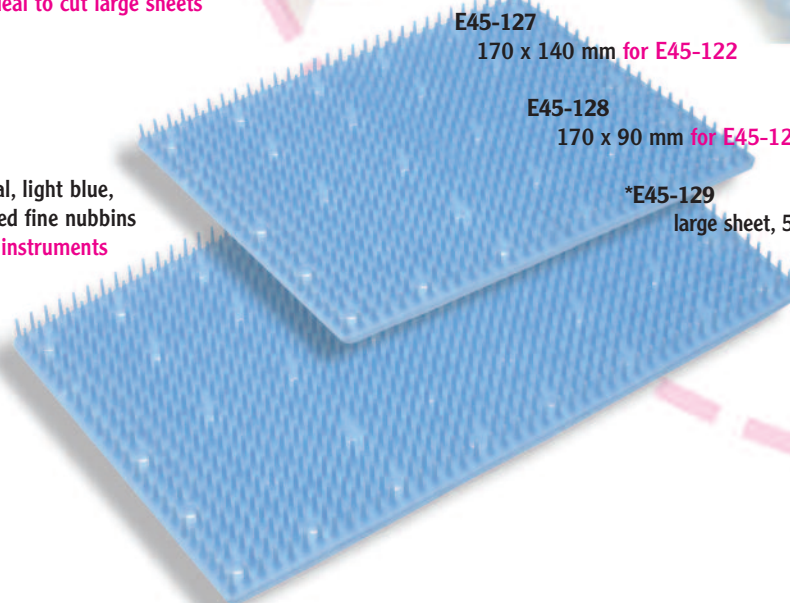
E45-126
Silicone Finger Mats
265 x 170 mm for E45-121

E45-127
170 x 140 mm for E45-122

E45-128
170 x 90 mm for E45-123

***E45-129**
large sheet, 520 x 240 mm

Extra soft material, light blue,
with narrow spaced fine nubbins
for microsurgical instruments



STERILISING EQUIPMENT

EZHold® SILICONE STORAGE INSERTS

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

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

The instrument holding bar can be attached anywhere in the tray with screws; silicone instrument holders are inserted into the instrument holding bars.

3B instruments

— lékařské nástroje —

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Plastic Holding Post 1.4"/3.5 mm

E45-524

Movable Posts

E45-525 short 1.2"/3.0 mm

E45-526 long 2.0"/5.0 mm

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

Utility Scissors straight, blunt blades, 14.5 cm

E25-714

L-Bracket

E45-522

T-Bracket

E45-523

Metal Screw
for E45-522 to E45-524
brackets and posts
E45-512

A NURSE'S BEST FRIENDS

STERILISING EQUIPMENT



3B instruments
— lékařské nástroje —
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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).



bottom and lid with fast clip system
for simple exchange of filters

EZLoad® Lids

(310 mm x 190 mm)

anodised, lightweight aluminium,
perforated with multiple round holes

E45-310+ colour

- +S
- +Y
- +R
- +A
- +G
- +B

EZLoad® Bottoms

silver coloured, available
perforated or unperforated,
see E45-312/4 thru E45-313/8

New



LOCKING SYSTEM

EZLock® quick-release with positive
action spring mechanism on the lid.

EZLoad® 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+

EZLoad® STANDARD CONTAINER ACCESSORIES



For easy identification, safe sterilisation, precise controlling and protective sealing of reusable, filtered sterilisation containers.

3B instruments
— lékařské nástroje —
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STERILISING EQUIPMENT

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)

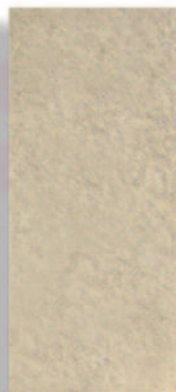
E45-332
for frequent use

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

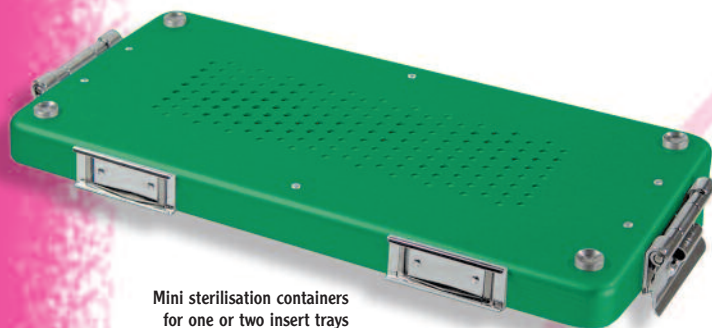


Plastic Safety Seals
disposable (pack of 100)
E45-361

ensures that the protective packaging
can not be opened and closed again -
to rule out any form of manipulation.

*You can store a maximum in
a minimum of space.*

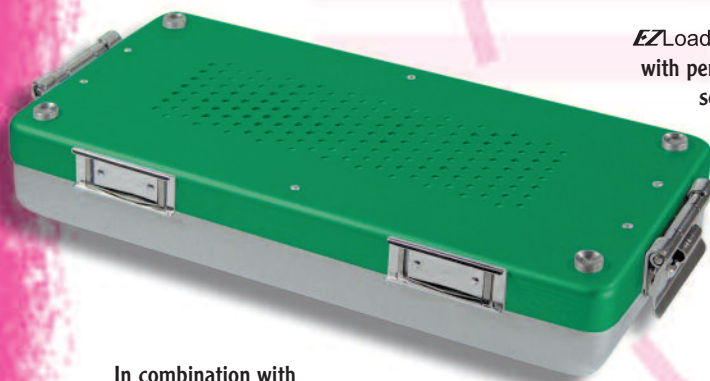
STERILISING EQUIPMENT



Mini sterilisation containers
for one or two insert trays



Cleaning Agent
for anodised aluminium
E45-330 300g



In combination with
our stainless steel basket trays
the best way to store, protect and sterilise
an entire set of 15-30 ophthalmic instruments.

EZLoad® Lids

(300 mm x 140 mm)
anodised, lightweight aluminium,
perforated with multiple round holes

E45-300+ colour

- +S
- +Y
- +R
- +A
- +G
- +B

EZLoad® Bottoms

(40 mm and 70 mm heights),
available perforated or unperforated,
see below E45-304 to E45-307

Containers have uniquely raised buttons on the
lid for secure stacking and offer facility for

- easy filter exchange
- sterilisation safety seals
- interchangeable identification plates

EZLoad® Mini Containers

with perforated or unperforated bottom,
see below E45-304+ to E45-307+

- +S
- +Y
- +R
- +A
- +G
- +B

PMS EZLoad® Mini Containers with insert wire trays are ideal for sterilisation, safe transportation and organised storage.

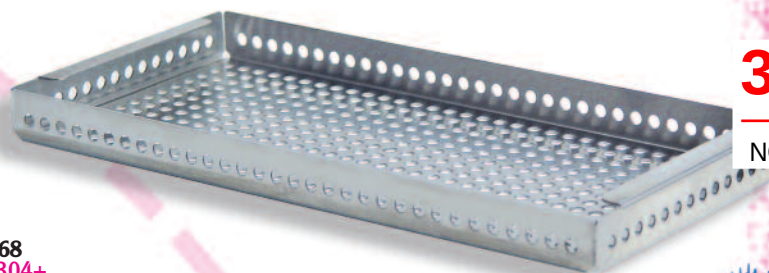
External dimension (mm)	Removable lids, perforated	Bottoms, silver coloured perforated - unperforated	Container, complete with perforated - bottom - unperforated
300 x 140	E45-300+ colour		
300 x 140 x 40		E45-304	E45-304+
300 x 140 x 70		E45-306 E45-307	E45-306+ E45-307+

Securely protects your instruments.

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Insert Screen Tray
perforated metal sheet
268 x 124 x 22 mm

E45-268
for use with E45-304+

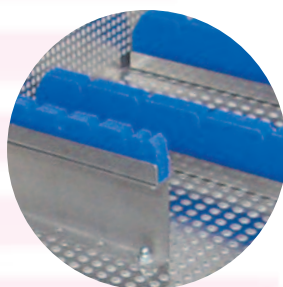
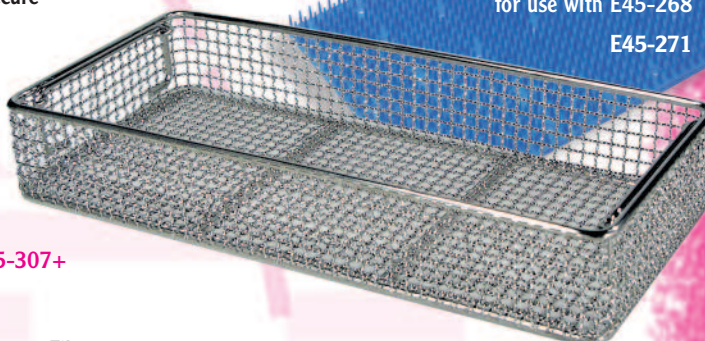


A variety of posts, instrument holding devices and silicone finger mats fit into the insert basket to secure each instrument (illustrated on page 279-281)

EZHold®
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+



Silicone Holding Bars for E45-265 and E45-268 can be adapted to your specific requirements

Paper Filters
with chemical indicator
disposable (pack of 100)

E45-331
for single use

Textile Filters
reusable (set of 2)

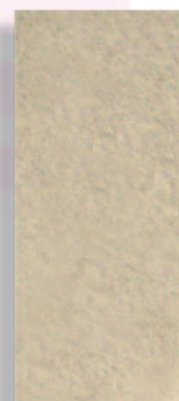
E45-332
for frequent use

PTFE Teflon Filters
long-life (set of 2)

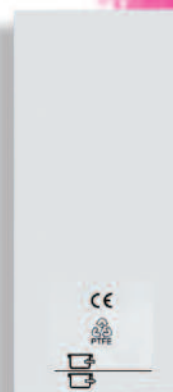
E45-333
for permanent use



single use



frequent use
≈ 40 cycles



permanent use
≈ 1200 cycles

Drape Retainer
flexible, tension frame
(280 x 125 mm)

E45-328
to hold woven drapes in place

Identification Plates
see page 283



Classic Woven Drape
reusable, 600 x 400 mm
E45-336B



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.



Lid perforated

EZLoad® Lid
(285 mm x 280 mm)

E45-285+ colour

- +S
- +Y
- +R
- +A
- +G
- +B



bottom perforated

EZLoad® 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.



Lid perforated

bottom perforated

EZLoad® 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

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+



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+

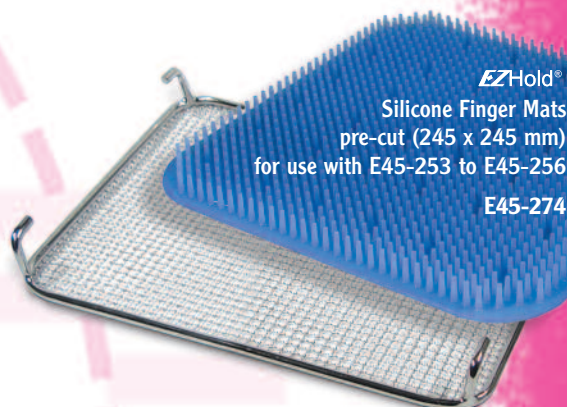
E45-255 255 x 245 x 50 mm
to fit with E45-288+ and -289+



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



EZHold®
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)

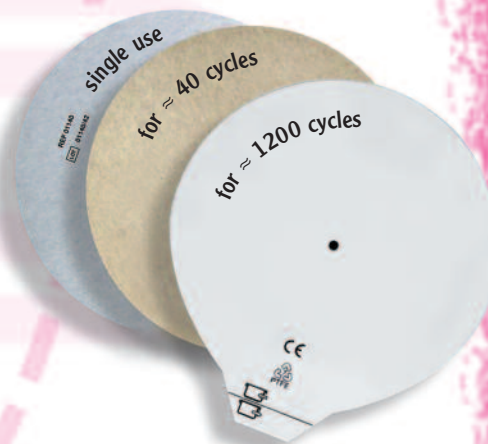
E45-281
for single use

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



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



3B instruments
— lékařské nástroje —
NOVÉ MĚSTO NA MORAVĚ



Important Note!



Non-sterile product



Single use product only



Do not sterilise by ethylene oxide



Sterile packaged product



Sterilised by ethylene oxide



Sterilise by heat (steam)



Expiration date

STERILISING EQUIPMENT

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)

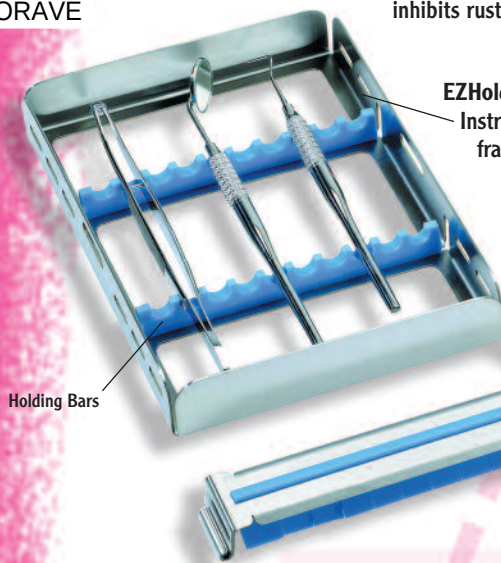
Sterilization container	Packing		Steam sterilization procedure acc. to DIN 58946, part I				
	Description	Symbolic representation and packing system	Gravitation procedure	Pre-vacuum procedure	Fractional vacuum procedure	Fractional flow procedure	Steam injection procedure
with filters	Instruments in wire 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.

Compact design guarantees strength and durability.
Electro polished 18/8 stainless steel material
inhibits rust and staining of the tray.



EZHold®
Instrument Holding Racks
frame 180 mm long x 27 mm height

E45-180+ 3 instruments, 64 mm wide

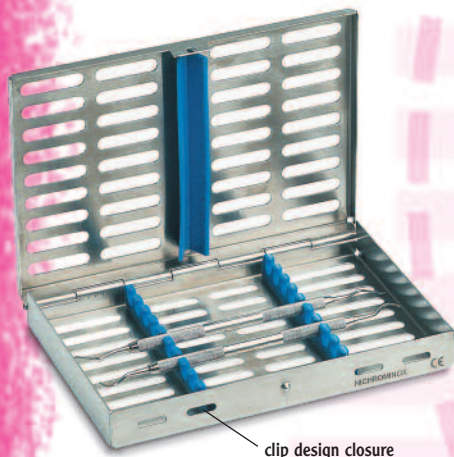
E45-180+ 5 instruments, 95 mm wide

E45-180+ 10 instruments, 136 mm wide

Holding Bars

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



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)

twist lock

* also available with silicone finger mats, please add "M" to catalogue no.

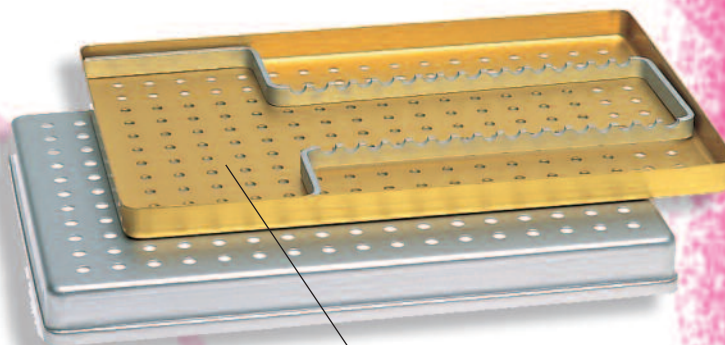


EZHold®
Instrument Sterilising Box
anodised aluminium, 280x180x19 mm,
perforated lid and bottom, complete with
instrument holder for 16 instruments

E45-226+ colour

- +Silver
- +Yellow
- +Red
- +Azur
- +Green
- +Turquoise

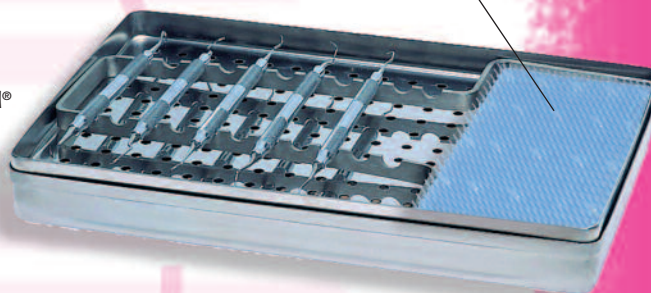
please note that only the bottom is coloured



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



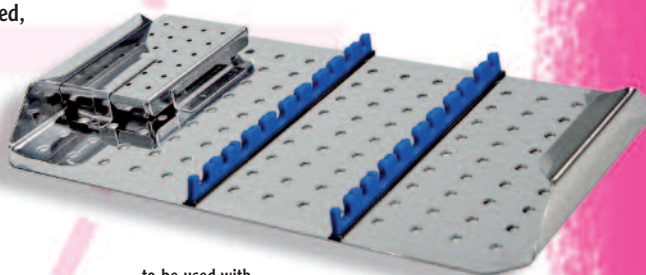
supplied without instruments
and silicone finger mat

EZHold®
Insert Instrument Tray
18/8 stainless steel, perforated,
complete with needle case and...

E45-246 silicone instrument bars

E45-247 silicone finger mat

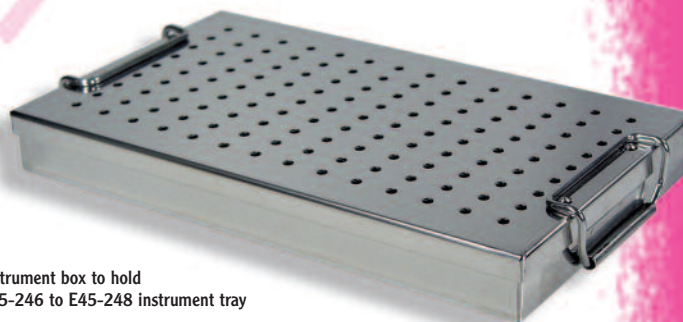
E45-248 silicone nap plate



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

3B instruments
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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

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.

PMS

3B instruments
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Silicone Instrument Rack
(160 x 85 x 20 mm)

E45-162

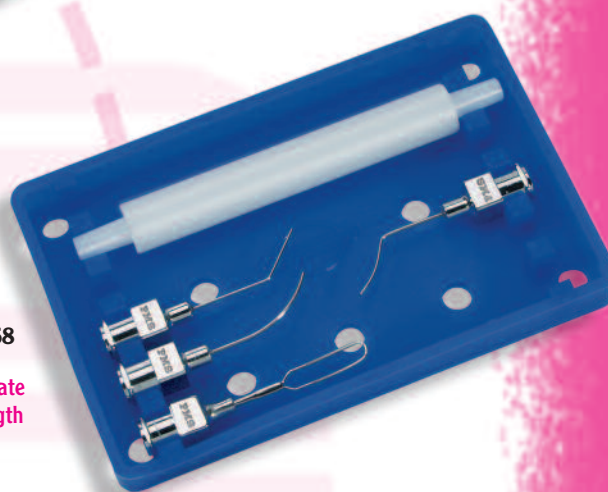
holds 10 single-armed instruments of
100 to 120 mm total length, can be
used with E45-161 sterilisation tray



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.



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. 	
(EN) Unwrapped only, in sterilization tray, gravity displacement steam sterilization cycle		(EN) Prevacuum steam sterilization cycle, in sterilization tray, wrapped or unwrapped

Regardless of which sterilisation method is used, always follow instructions supplied by the manufacturer of the steriliser.



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