

PMS



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 Cooper Medical

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## WHY TITANIUM?

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

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

### LIGHT WEIGHT

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

### ANTIMAGNETIC

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

### NO RUST & LONG LIFE

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



### CARE AND HANDLING TIPS

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

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



single level tray  
E45-005

### MINITAINER TRAYS

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

### BENEFITS

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

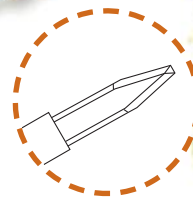
E45-005 (180x75x18.5 mm)  
for 3-5 instruments

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

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



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



**Vitreoretinal Instruments**  
page 170-177



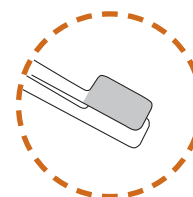
**IOL Cutters**  
page 132-133



**Bimanual I/A Systems**  
page 110-119



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

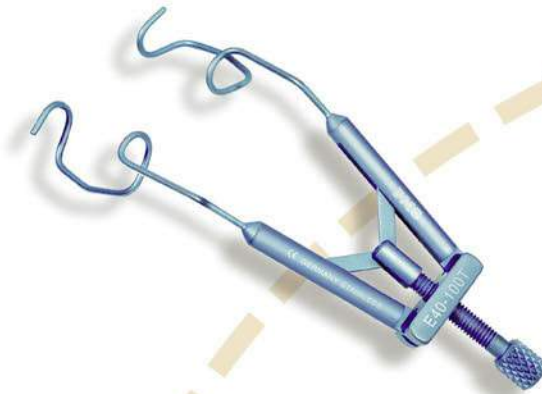


**TITANIUM EYE INSTRUMENTS**



**EYE SPECULAE**

**TITANIUM EYE INSTRUMENTS**



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



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



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



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

## KNIVES, FIXATION RINGS AND CALIPERS

PMO



further sapphire knives are  
shown on page 64 to 67

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

**E10-042** 2.8 mm

**E10-043** 3.0 mm

**E10-044** 3.2 mm

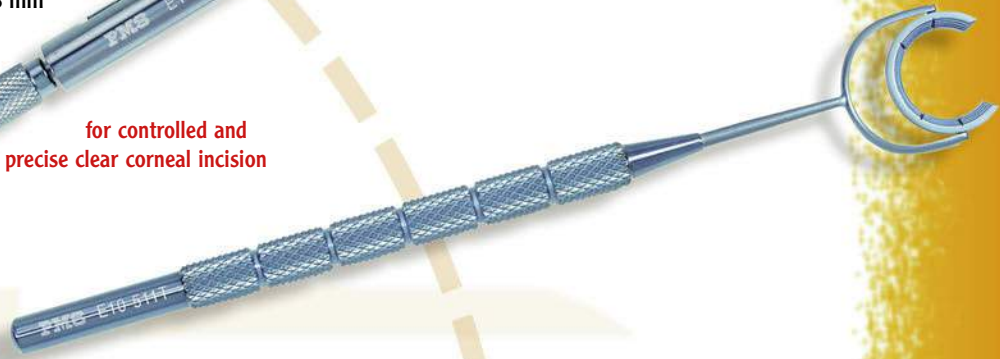


for controlled and  
precise clear corneal incision

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

**E10-511T**

for atraumatic fixation of the eye during phaco



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

**E10-513T** 13 mm ID for clear corneal incision

**E10-516T** 16 mm ID for scleral tunnel incision



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

for qualitative evaluation of astigmatism



**Castroviejo**  
Eye Caliper  
double sided scale  
in 1 mm increments

**E40-552T** 0-15 mm

**E40-554T** 0-20 mm



TITANIUM EYE INSTRUMENTS



**NUCLEUS MANIPULATORS**

with stainless steel shafts and tips

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

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

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

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

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

ideal to impale, manipulate  
and rotate soft and hard nucleus

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

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

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

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

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

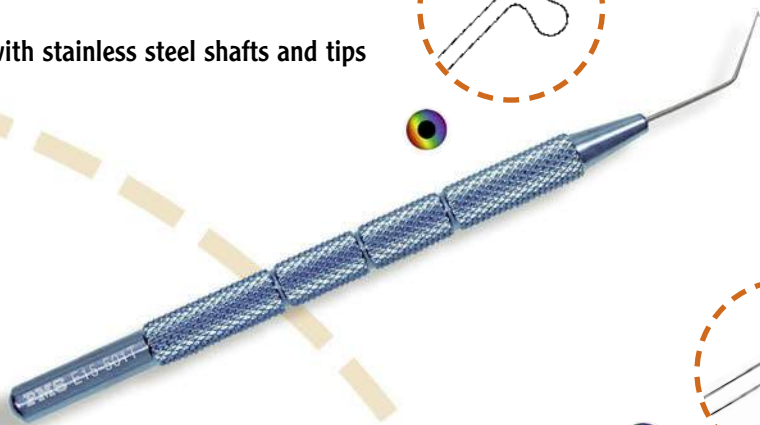
## LENS AND IRIS HOOKS

with stainless steel shafts and tips



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

E15-501T



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

E15-560T straight

E15-561T angled



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

E15-562T



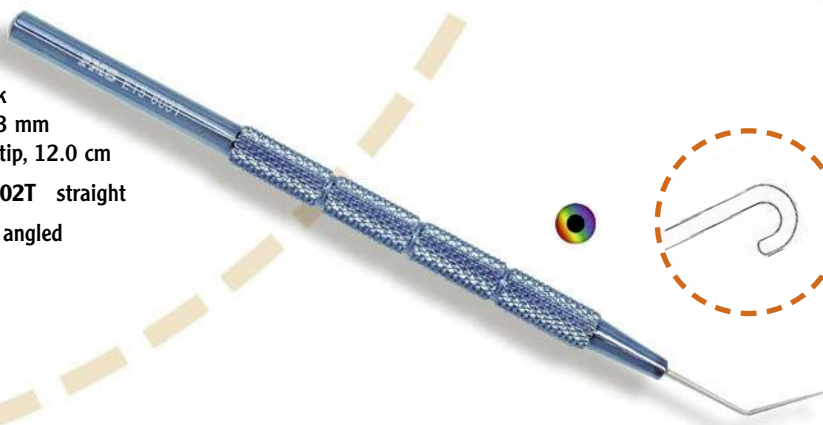
**Kuglen**  
"Push-Pull" Lens  
Manipulator & Iris Hook  
angled 10 mm shaft,  
ball shaped tip, 12.0 cm

E15-565T



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

E15-603T angled



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



TITANIUM EYE INSTRUMENTS





## PHACO CHOPPERS

with stainless steel shafts and tips



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

**E15-653T**



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



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

**E15-655T**



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

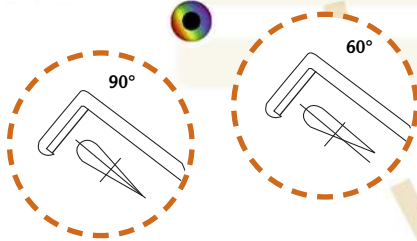


**world-wide best seller**

**Nagahara**  
Phaco Chopper  
wedge shaped tip, 12.0 cm

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

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



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

**E15-669T**

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



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

# PHACO SPATULAE

PMS



with stainless steel shafts and tips

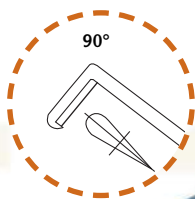
**Rowen  
Phaco Spatula  
13.0 cm  
E15-673T**



*combination of a Rosen Phaco Splitter & Bechert Nucleus Rotator*



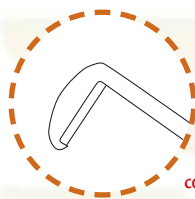
**Nagahara/Sinsky  
Phaco Spatula  
13.0 cm  
E15-675T**



*combination of a Nagahara Phaco Chopper & Sinsky IOL Hook*



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



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

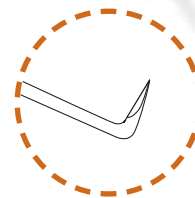
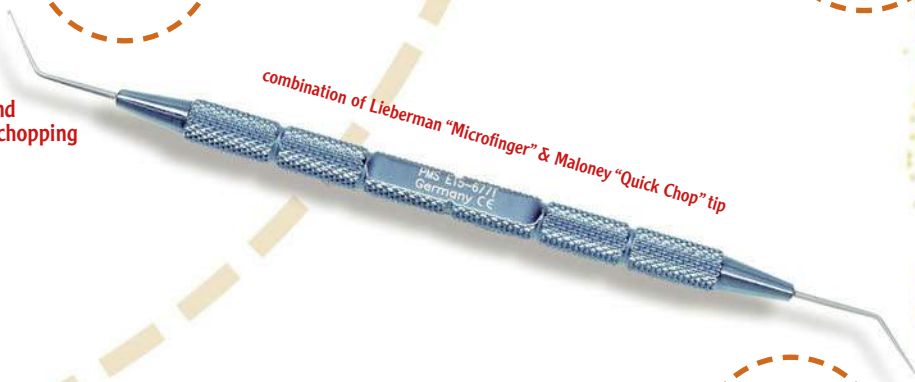


**Chang  
Phaco Chopper  
13.0 cm  
E15-677T**



*ideal for vertical and horizontal phaco chopping*

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

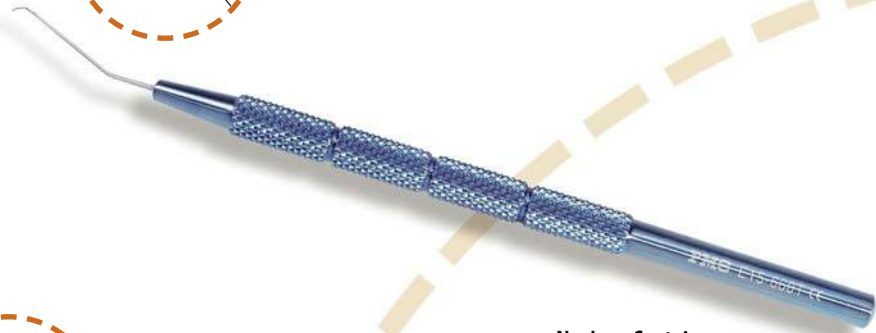


TITANIUM EYE INSTRUMENTS



**AKAHOSHI STYLE NUCLEUS SUSTAINERS**

with stainless steel shafts and tips



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

to reduce the stress on the capsular bag and zonules



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

for stable nuclear support during prechopping



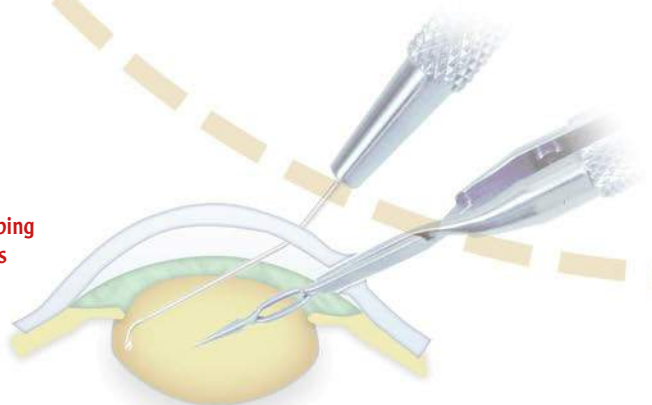
Nucleus Ring Sustainer  
1 mm dia. ring, angled 2.5 mm, 12.0 cm  
**E15-662T**

supports the nucleus from posterior side during vertical prechopping



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

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



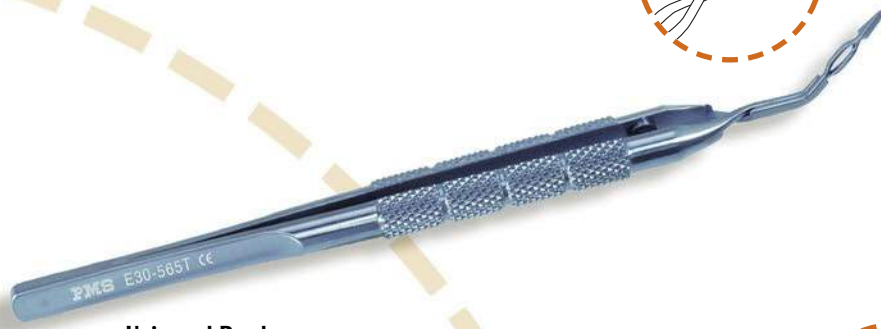
TITANIUM EYE INSTRUMENTS

## AKAHOSHI STYLE PRECHOPPERS

PMS



for detailed product information,  
please refer to page 95



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



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



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



**Nucleus Splitter / Completer**  
E30-572T  
for all prechopping  
techniques

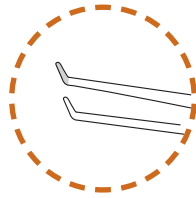
helps to...

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

TITANIUM EYE INSTRUMENTS



**FIXATION FORCEPS**

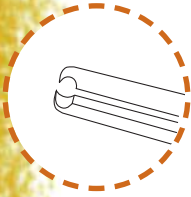


**New**



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

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

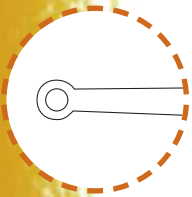


**New**



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

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

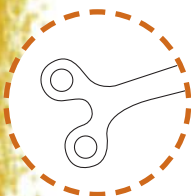


**New**



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

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



**New**



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

# CAPSULORHEXIS FORCEPS

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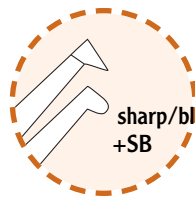
## TIP DESIGNS



blunt tips  
+BL



sharp tips  
+SH



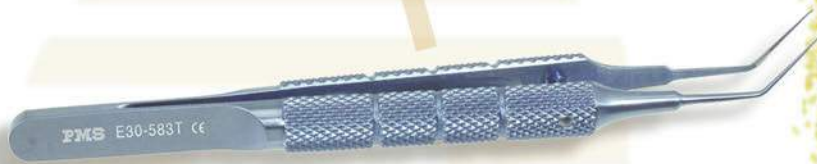
sharp/blunt tips  
+SB

triangular jaws with delicate platforms and ultra fine grasping tips

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



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



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



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

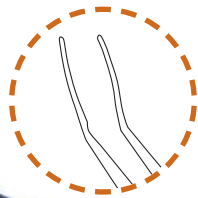


+ when ordering please specify tip design: BL=blunt, SH=sharp, SB=sharp/blunt

TITANIUM EYE INSTRUMENTS



**FOLDABLE LENS FORCEPS**



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



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



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



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



paddles  
 effectively  
 pick up lens  
 for even folding



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

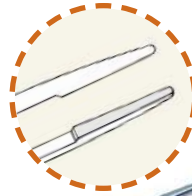
## TYING & LENS HOLDING FORCEPS

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TITANIUM EYE INSTRUMENTS

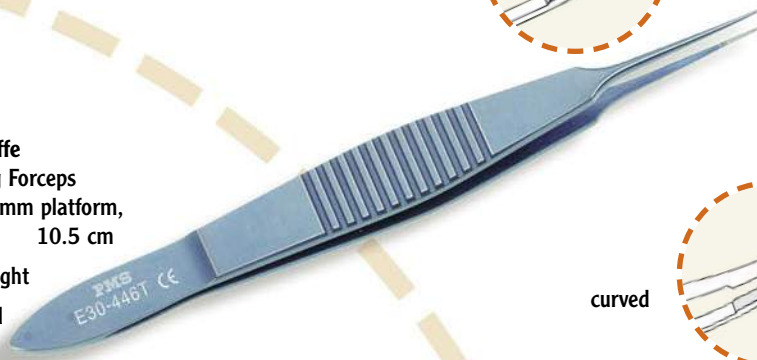
straight



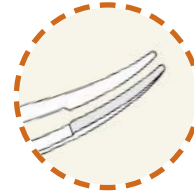
PLATFORM DESIGNS

Jaffe  
Tying Forceps  
4 mm platform,  
10.5 cm

E30-446T straight  
E30-447T curved



curved

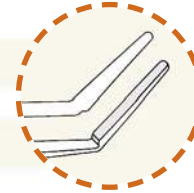


Tennant  
Tying Forceps  
6 mm platform,  
10.5 cm

E30-448T straight  
E30-449T curved



short  
angled



McPherson  
Tying Forceps  
6 mm platform,  
10.5 cm

E30-460T straight  
E30-461T angled



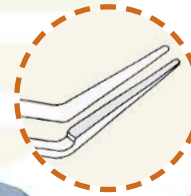
Kelman-McPherson  
Lens Holding Forceps,  
angled, 8 mm platform,  
10.5 cm

E30-463T

*ideal for implanting PMMA IOLs*



long  
angled

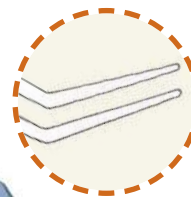


Faulkner  
Soft Lens Holding  
Forceps, angled  
11 mm round jaws,  
10.5 cm

E30-645T



long angled,  
round jaws



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





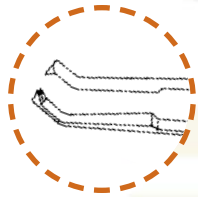
**SUTURE TYING FORCEPS**

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

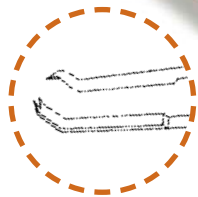
TITANIUM EYE INSTRUMENTS



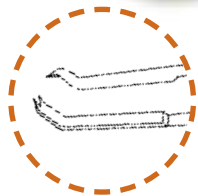
**Barraquer-Colibri**  
Corneal Forceps  
1x2 teeth 90°, 7.5 cm,  
without platform  
E30-051T 0.12 mm  
E30-052T 0.20 mm



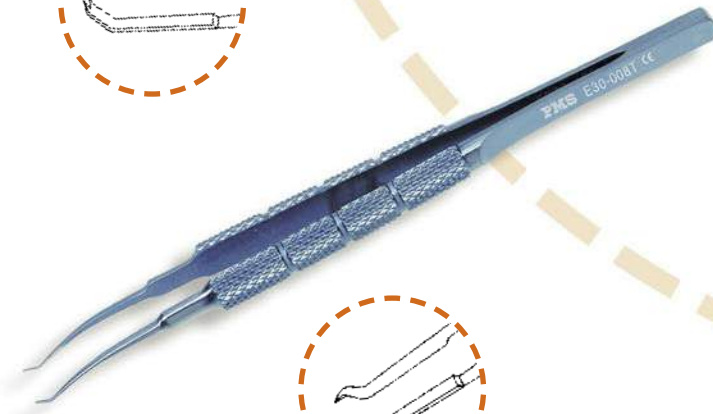
**Barraquer-Colibri**  
Suture Tying Forceps  
1x2 teeth 90°, 0.12 mm,  
3 mm platform, 7.5 cm  
E30-061T



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



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



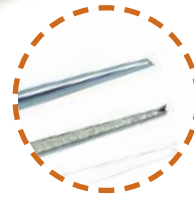
**Girard**  
Corneoscleral Forceps  
1x2 teeth 45°, 0.12 mm,  
6 mm platform, 10.0 cm  
E30-008T

## SUTURE TYING FORCEPS

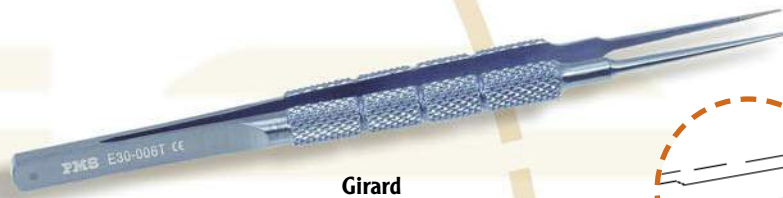
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**Castroviejo**  
Suture Tying Forceps  
1x2 teeth 45°, 6 mm platform, 10.5 cm  
E30-450T 0.12 mm  
E30-451T 0.30 mm



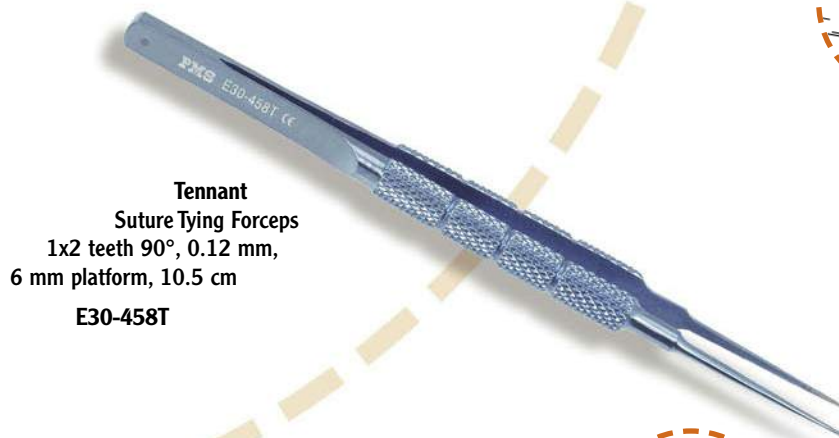
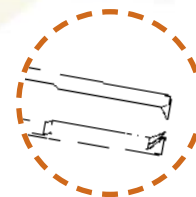
All tying platforms are covered  
with **Tungsten Carbide**.



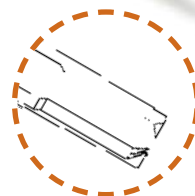
**Girard**  
Corneoscleral Forceps  
1x2 teeth 45°, 0.12 mm,  
6 mm platform, 10.5 cm  
E30-006T



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



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



TITANIUM EYE INSTRUMENTS



## NEEDLE HOLDERS

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

*ideal for 11-0 to 8-0 sutures*



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

\*E35-251T curved, without lock

\*E35-253T curved, with lock



*ideal for 11-0 to 8-0 sutures*



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

\*E35-271T curved, without lock

\*E35-273T curved, with lock



*ideal for 11-0 to 7-0 sutures*



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

\*E35-301T curved, without lock

\*E35-303T curved, with lock

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

\*E35-132T  
straight, with lock

\*E35-133T  
curved, with lock

*ideal for 7-0 to 4-0 sutures*



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



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**ECONOMICAL,  
ERGONOMICAL  
& EFFICIENT**



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.



**TITANIUM EYE INSTRUMENTS**



**E10-513T**



**E10-043**



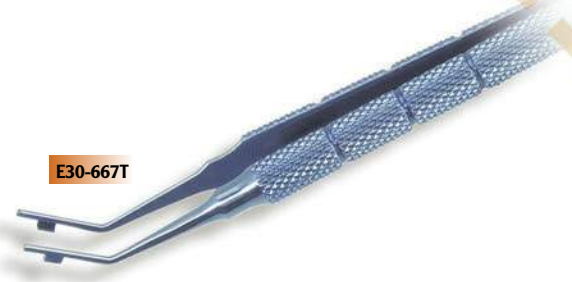
**E30-591T+**



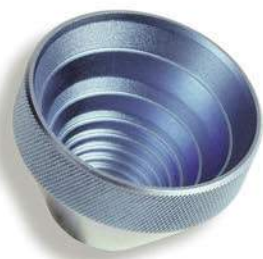
**E15-660T**



**E30-565T**



**E30-667T**



**E10-690T**

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