

MANIPULATORS  
 CHOPPERS, FIXATION RINGS  
 HOOKS, SPATULAS  
 LENS LOOPS



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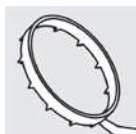




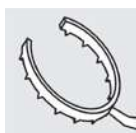
**G-37440** *HATTENBACH*  
**GLOBE FIXATION RING**  
for transconjunctival PPV  
12 mm inside diameter



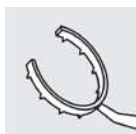
**G-33755** *THORNTON*  
**FIXATION RING**  
16 mm inside diameter  
12 atraumatic teeth



**G-31490** *FINE-THORNTON*  
**FIXATION RING**  
for clear cornea and refractive procedures  
16 mm inside diameter, 10 mm opening  
12 atraumatic teeth

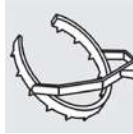


**G-31491** *FINE-THORNTON*  
**FIXATION RING**  
for clear cornea and refractive procedures  
13 mm inside diameter, 10 mm opening  
9 atraumatic teeth

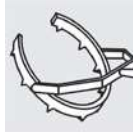




**G-33757** *FINE-THORNTON*  
**FIXATION RING**  
 for clear cornea and refractive procedures  
 swivel handle  
 16 mm inside diameter, 10 mm opening  
 12 atraumatic teeth



**G-33758** *FINE-THORNTON*  
**FIXATION RING**  
 for clear cornea and refractive procedures  
 swivel handle  
 13 mm inside diameter, 10 mm opening  
 9 atraumatic teeth



**G-33759** *FINE-THORNTON*  
**FIXATION RING**  
 for clear cornea and refractive procedures  
 swivel handle  
 13 mm inside diameter, 10 mm opening  
 9 atraumatic teeth

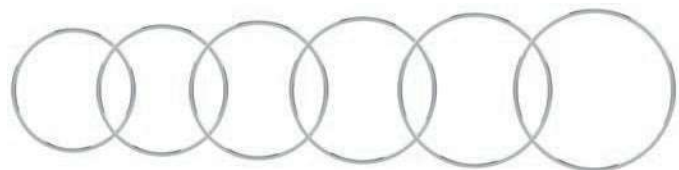


**G-37425**  
**FIXATION, HOLDING AND MEASURING INSTRUMENT**  
 for trocar system, radius 3.5 mm



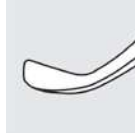
*FLIERINGA*  
**SCLERAL FIXATION RING**

- G-15065** 15 mm
- G-15070** 16 mm
- G-15075** 17 mm
- G-15080** 18 mm
- G-15085** 19 mm
- G-15090** 20 mm



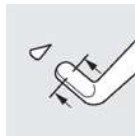
**G-32505**

*THOMAS NEUHANN*  
**NUCLEUS DIVIDING HOOK**  
for vertical chopping techniques  
0.5 mm wide fine tip  
overall length 108 mm

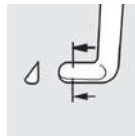


**G-31500**

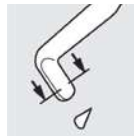
*MIYOSHI*  
**NUCLEUS DIVIDING HOOK**  
1 mm tip, 0.6 mm inner edge  
overall length 104 mm



universal  
G-31500



left hand  
G-31501



right hand  
G-31502

**G-31501**

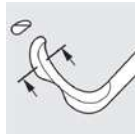
universal

**G-31502**

for use in left hand  
for use in right hand

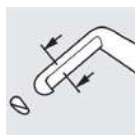
**G-31504**

*VÖLCKER*  
**NUCLEUS DIVIDING HOOK**  
for narrow pupils  
with outer notch to push iris aside  
1.5 mm inner edge  
overall length 104 mm



**G-31503**

*ZIRM*  
**NUCLEUS DIVIDING HOOK**  
1.5 mm inner edge  
overall length 104 mm



G-32500

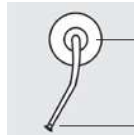
TOBIAS NEUHANN

**CHOPPER**

paddle shape nucleus divider  
0.5 mm wide tip  
overall length 108 mm



side view



front view

handle

tip

G-32282

AGARWAL

**KARATE PHACO CHOPPER**

0.9 mm long tip  
0.6 mm inner edge  
overall length 104 mm



G-31505

G-31506

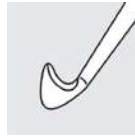
HAEFLIGER

**NUCLEUS DIVIDING HOOK**

to crack, chop and manipulate lenses  
1.0 mm triangular tip  
0.7 mm inner sharp hook  
overall length 104 mm

for use in right hand

for use in left hand

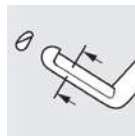


G-31507

NAGAHARA

**NUCLEUS DIVIDING HOOK**

for horizontal chopping techniques  
1.5 mm long tip  
0.9 mm inner edge  
overall length 98 mm



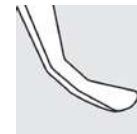
G-32501

THOMAS NEUHANN  
**NUCLEUS ROTATOR** and  
TOBIAS NEUHANN  
**CHOPPER**

combination of  
horizontal Y-shaped nucleus rotator and  
paddle shaped nucleus divider  
overall length 119 mm



like G-32160



like G-32500

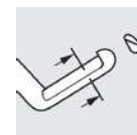
G-32168

THOMAS NEUHANN  
**SPATULA** and  
NAGAHARA  
**NUCLEUS DIVIDING HOOK**

combination of  
0.5 mm wide phaco spatula and  
horizontal phaco chopper  
overall length 116 mm



like G-16189



like G-31507

G-32161

THOMAS NEUHANN  
**NUCLEUS ROTATOR AND DIVIDING HOOK**  
combination of  
horizontal Y-shaped nucleus rotator and  
vertical phaco chopper  
overall length 117 mm



like G-32160



like G-32505

G-32164

THOMAS NEUHANN  
**SPATULA AND NUCLEUS DIVIDING HOOK**  
combination of  
0.5 mm wide phaco spatula and  
vertical phaco chopper  
overall length 125 mm



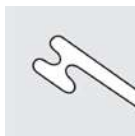
like G-16189



like G-32505



**G-32162** *THOMAS NEUHANN*  
**IRIS HOOK AND NUCLEUS DIVIDING HOOK**  
combination of push-pull iris hook and  
*NEUHANN* vertical chopper  
overall length 120 mm



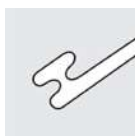
like G-16175



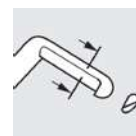
like G-32505



**G-32169** *T. KOHNEN*  
**IRIS HOOK AND NUCLEUS DIVIDING HOOK**  
combination of push-pull iris hook and  
*NAGAHARA* horizontal chopper  
overall length 114 mm



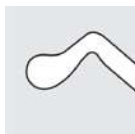
like G-16175



like G-31507



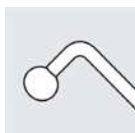
*LIEBERMANN*  
**MICROFINGER**  
Nucleus Manipulator  
1.5 mm curved microfinger  
overall length 103 mm  
for use in right hand  
for use in left hand



**G-16181**  
**G-16182**



**G-31727** *AKAHOSHI*  
**NUCLEUS SUSTAINER**  
to manipulate and sustain nucleus  
used in combination with prechopper  
0.5 mm ball tip  
1.8 mm angled  
overall length 100 mm





G-16185

*DRYSDALE*

**NUCLEUS MANIPULATOR AND  
ANTERIOR CAPSULE POLISHER**

to manipulate, rotate, and divide the nucleus  
1.0 mm x 1.5 mm paddle shaped tip  
overall length 100 mm



G-32160

*THOMAS NEUHANN*

**NUCLEUS ROTATOR**

horizontal Y-shaped rotator and manipulator  
0.15 mm diameter tip  
overall length 104 mm



G-32034

*HENNIG / FRIEDRICH*

**LENS EXTRACTION HOOK**

(Hefri Hook)  
overall length 105 mm



G-32550

*MAINZ MODEL*

**LENS MANIPULATOR**

straight  
0.15 mm diameter tip  
overall length 114 mm

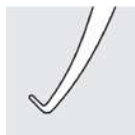


G-32556

*MAINZ MODEL*

**MANIPULATOR**

vaulted  
0.15 mm diameter tip  
overall length 109 mm





*JACOBI*  
**LENS MANIPULATOR**  
vaulted  
overall length 99 mm  
for 0.3 mm IOL hole  
G-16160  
G-16161 for 0.2 mm IOL hole



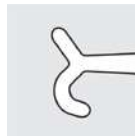
*SINSKEY*  
**LENS MANIPULATION HOOK**  
for 0.2 mm IOL hole  
10 mm angled shaft  
overall length 103 mm  
G-16166 flat handle  
G-16167 round handle



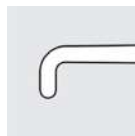
G-32557  
*BREMEN MODEL*  
**LENS MANIPULATOR**  
vertical Y-hook  
0.15 mm diameter tip  
overall length 116 mm



G-32555  
*RENTSCH*  
**LENS MANIPULATOR AND HOOK**  
straight  
0.18 mm diameter boat hook  
overall length 137 mm

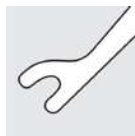


G-32530  
*FRANKFURT MODEL*  
**MANIPULATOR**  
straight  
0.18 mm diameter lens hook  
overall length 137 mm



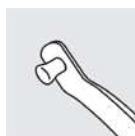
G-32275

*ZIRM*  
**LENS LOOP MANIPULATOR**  
vertical Y-hook  
0.15 mm diameter tip  
overall length 108 mm



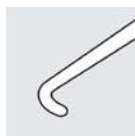
G-32276

*LESTER*  
**LENS LOOP MANIPULATOR**  
vaulted  
0.25 mm diameter tip  
overall length 102 mm



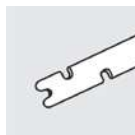
G-16169

*TANDOGAN*  
**EXPLANTATION HOOK**  
for IOL  
0.2 mm diameter tip  
overall length 103 mm



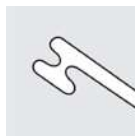
G-16210

*HIRSCHMANN*  
**LENS SPATULA**  
0.6 mm wide spatula with  
0.2 mm notches  
overall length 104 mm



G-16175

*DARDENNE*  
**IRIS HOOK AND LENS MANIPULATOR**  
push-pull tip  
overall length 105 mm

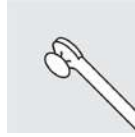


G-32227

LUND

**IRIS HOOK**

0.8 mm collar button  
overall length 105 mm



G-16205

BONN MODEL

**IRIS HOOK**

extra delicate  
0.15 mm diameter hook  
overall length 111 mm

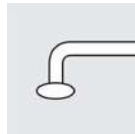


G-31911

FRANKFURT MODEL

**IRIS HOOK AND LENS MANIPULATOR**

0.65 mm collar button  
overall length 135 mm



12

G-16191

STEINMETZ

**SPATULA**

for manual lens fragmentation  
1 mm wide nucleus bisector  
for use in left hand  
overall length 110 mm



G-16193

SPIRIG

**SPATULA**

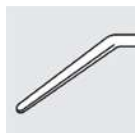
for manual lens fragmentation  
0.5 mm wide nucleus bisector  
overall length 110 mm



G-32728

*RENTSCH*  
**SPATULA**

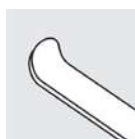
12 mm long spatula  
tapered from 0.6 mm to 0.3 mm  
overall length 118 mm



G-32005

*ENGELS*  
**PHACO SPOON**

0.6 mm wide round spatula  
overall length 86 mm



G-32007

*D. D. KOCH*  
**PHACO SPATULA**

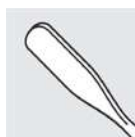
curved with notches  
duckbill 0.5mm wide tip  
overall length 105 mm



G-32523

*AMON*  
**PHACO SPATULA**

paddle-shaped tip  
0.8 mm wide x 1.6 mm long  
0.2 mm thick  
overall length 103 mm



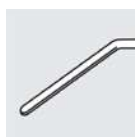
G-16189

**SPATULA**

12 mm spatula  
angled, 45°  
overall length 108 mm

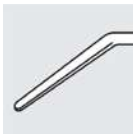
G-16190

0.5 mm wide x 0.25 mm thick  
1.0 mm wide x 0.25 mm thick





**G-32724** *SEKUNDO*  
**ENCLAIVATION SPATULA**  
for retropupillary implantation of  
Iris-Claw IOL  
14 mm long spatula  
tapered from 0.75 mm to 0.3 mm  
overall length 118mm



**G-31378** *ANIS*  
**BALL CAPSULE POLISHER**  
1.5 mm diameter hemisphere tip  
textured  
overall length 113 mm



**G-32563** *RENTSCH*  
**CAPSULE POLISHING CURETTE**  
angled 135°  
1.5 mm diameter tip  
anterior and posterior semi-sharp edges  
overall length 108 mm



**G-32564** *RENTSCH*  
**CAPSULE POLISHING CURETTE**  
angled 90°  
1.5 mm diameter tip  
anterior and posterior semi-sharp edges  
overall length 110 mm



G-15620

*ARLT*

**LENS LOOP**

serrated, curved

3.5 mm wide

overall length 135 mm



G-15630

*SNELLEN*

**LENS LOOP**

smooth, curved

3.5 mm wide

overall length 135 mm



G-15640

*WEBER*

**LENS LOOP**

small

4 mm wide

overall length 130 mm



G-15645

*WEBER*

**LENS LOOP**

large

5 mm wide

overall length 135 mm



G-15635

*SPIRIG*

**LENS LOOP**

for manual lens fragmentation

serrated, curved

2.2 mm wide

overall length 135 mm





*BANGERTER*  
**SPATULA**  
lightly curved  
overall length 139 mm  
6 mm wide  
10 mm wide  
12 mm wide

**G-15720**  
**G-15725**  
**G-15730**



**G-15731** *BEHRENS-BAUMANN*  
**ORBITAL SPATULA**  
with aspiration  
10 mm wide, lightly curved  
overall length 137 mm



*SAUTTER*  
**ORBITAL SPATULA**  
overall length 142 mm  
22 x 13 mm curved plate  
22 x 16 mm curved plate  
22 x 19 mm curved plate

**G-15740**  
**G-15745**  
**G-15750**



**G-32445** *HAMBURG MODEL*  
**ORBITAL SPATULA**  
18 x 12 mm curved plate  
overall length 145 mm





**G-32446** **ORBITAL SPATULA**  
18 x 8 mm curved plate  
overall length 145 mm



**G-15758** **KERATOPLASTY  
SPATULA**  
perforated



**G-32727** *BINKHORST*  
**SYNECHIAE SPATULA**  
10 mm long, semi-sharp  
extra delicate  
overall length 129 mm



**G-15477** *CASTROVIEJO*  
**SYNECHIAE SPATULA**  
7 mm long, semi-sharp  
0.5 mm wide  
overall length 86 mm



**G-15475** *CASTROVIEJO*  
**CYCLODIALYSIS SPATULA**  
double ended, blunt  
10 and 15 mm long  
overall length 134 mm



**G-15470** *ELSCHMIG*  
**CYCLODIALYSIS SPATULA**  
10 mm long, blunt  
1.2 mm wide  
overall length 127 mm



**G-15480** *CASTROVIEJO*  
**CYCLODIALYSIS SPATULA**  
10 mm long, blunt  
0,7 mm wide  
overall length 129 mm



**G-15485** *CASTROVIEJO*  
**CYCLODIALYSIS SPATULA**  
15 mm long, blunt  
0.7 mm wide  
overall length 129 mm

CYCLODIALYSIS SPATULAS

12

G-15400

*WECKER*  
**IRIS SPATULA**  
slim

1.5 mm wide, lightly curved  
overall length 129 mm



G-15405

*WECKER*  
**IRIS SPATULA**  
wide

2.5 mm wide, lightly curved  
overall length 132 mm



G-31990

*WECKER*  
**IRIS SPATULA**  
conical

0.9 mm wide, lightly curved  
overall length 134 mm



G-15390

*FRANKFURT MODEL*  
**IRIS SPATULA**

0.9 mm wide, curved  
overall length 125 mm



G-15391

*FRANKFURT MODEL*  
**IRIS SPATULA**

extra delicate  
0.25 mm wide, curved  
overall length 125 mm



IRIS SPATULAS

12

G-32729

**IRIS SPATULA**

extra delicate, conical  
7 mm long spatula, angled  
tapers from 0.5 mm to 0.3 mm  
overall length 114 mm



G-31975

*BANGERTER*

**IRIS SPATULA**

round handle  
8 mm long spatula, angled  
overall length 118 mm

G-31980

1.0 mm wide

G-31985

1.5 mm wide

G-31985

2.0 mm wide



G-15360

*BANGERTER*

**IRIS SPATULA**

flat handle  
8 mm long spatula, angled  
overall length 125 mm

G-15365

1.0 mm wide

G-15370

1.5 mm wide

G-15370

2.0 mm wide



G-15755

*ESSEN MODEL*

**SPATULA**

10 mm wide  
25 mm angled, flat  
overall length 149 mm





**G-15757** *GIESSEN MODEL*  
**SPATULA AND RETRACTOR**  
9 mm wide  
angled, concave  
overall length 162 mm



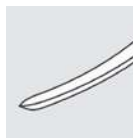
**G-15780** *WELLS*  
**ENUCLEATION SPOON**  
overall length 147 mm



**G-33912** *ZIRM*  
**LASIK CORNEAL PROTECTOR**  
7.0 x 2.5 mm corneal shield  
overall length 120 mm



**G-33930** *THOMAS NEUHANN*  
**LASIK SPATULA**  
with beveled blunt tip  
rounded anterior and  
flat posterior surface  
for lifting the corneal flap  
overall length 106 mm



G-33935

*RAU*

**LASEK SPATULA**

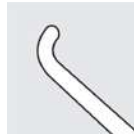
5.5 mm long spatula  
for repositing and smoothing  
the epithelial flap after laser ablation  
overall length 116 mm



G-38607

**DESCEMET INCISION HOOK**

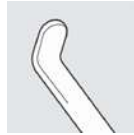
0.2 mm diameter blunt tip  
for marking the area of Descemetorhexis  
in recipient's eye  
overall length 103 mm



G-38608

**DESCEMET SCRAPER**

1 mm semi-circular tip  
for scraping the recipient Descemet's  
membrane  
overall length 103 mm



12

G-38622

*SZURMAN*

**DMEK PREPARATION SPATULA**

disc-shaped spatula  
2.5 mm diameter, blunt  
for removal of Descemet's membrane from graft  
overall length 121 mm



G-38604

*THOMAS NEUHANN*

**ENDOTHELIAL INSERTION SPATULA**

with teflon insert, angled 145°, 4 x 2 mm  
for easy insertion of donor lamellar button  
with notched tip for "pull-through" technique  
overall length 104 mm  
(used with G-38606)

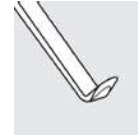
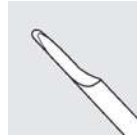


G-33966

*DICK*

**FEMTOCATARACT SPATULA**

double ended with round semi-sharp tips  
for easy opening of femto incisions  
spatula 2.5 mm flattened, 0.65 mm wide  
for main and sideport incisions  
knife 90° angled, 0.9 mm wide  
for arcuate incisions  
overall length 100 mm



G-33967

*BREYER*

**FEMTOCATARACT SPATULA**

angled  
1 mm blunt round tip  
for opening femto incisions  
overall length 100 mm

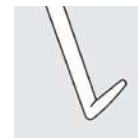
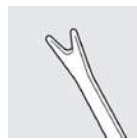


G-33968

*HOFFMANN*

**FEMTOCATARACT NUCLEUS ROTATOR  
AND CHOPPER**

horizontal Y-shaped rotator, 0.75 mm wide  
and 1 mm "Quick Chop" tip  
overall length 120 mm

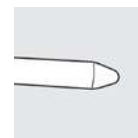


G-33950

*CHANSUE*

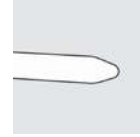
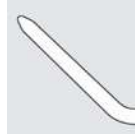
**FEMTO DOUBLE INSTRUMENT**

blunt spoon-shaped lenticule spatula  
1.25 mm wide, vaulted and  
hook, 2 mm long, angled  
overall length 115 mm  
to open the incision, delineate the edge  
of the lenticules and separate the interfaces  
during SMILE procedures

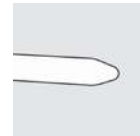
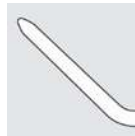




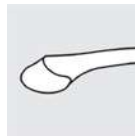
**G-33952** *CHANSUE*  
**FEMTO DOUBLE INSTRUMENT**  
conical lenticule spatula, 9 mm long, vaulted  
hook, 2 mm long, angled  
overall length 115 mm  
to open the incision, delineate the edge  
of the lenticules and separate the interfaces  
during SMILE procedures



**G-33954** *GUELL*  
**FEMTO DOUBLE INSTRUMENT**  
1.25 mm wide spoon-shaped spatula, straight  
2 mm long hook, angled  
overall length 113 mm  
to open the incision, delineate the edge  
of the lenticules and separate the interfaces  
during SMILE procedures



**G-33940** *BLUM*  
**FEMTO-LASIK ROUND SPOON**  
spoon-shaped spatula, 1.25 mm wide  
semi-sharp, bevel up, vaulted  
overall length 105 mm  
to undermine, lift and reposit LASIK flaps  
created with a femtosecond laser



**G-33942** *BREYER*  
**FEMTO-LASIK DOUBLE-ENDED INSTRUMENT**  
combination of  
*BLUM* spoon-shaped spatula, semi-sharp  
and hook with 1 mm inner edge  
(one blunt and one slightly sharp edge)  
overall length 115 mm





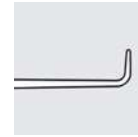
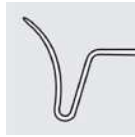


**G-33427**

*PFAEFFL*

**FEMTO FLAP LIFTER**

double ended, both ends blunt  
10.5 mm conical v-shaped hook, curved and  
1.5 mm modified *SINSKEY* hook  
overall length 115 mm  
for finding the flap edge, lifting, and retreating it

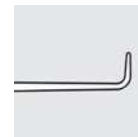


**G-33943**

*PFAEFFL*

**FEMTO FLAP LIFTER**

double ended  
10.5 mm conical v-shaped hook, straight and  
1.5 mm modified *SINSKEY* hook  
overall length 115 mm  
for finding the flap edge, lifting and retreating it

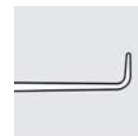


**G-33958**

*PFAEFFL-BREYER*

**FEMTO FLAP LIFTER**

double ended  
10.5 mm conical v-shaped hook, curved  
with double bevel tip and  
1.5 mm modified *SINSKEY* hook  
overall length 115 mm  
for finding the flap edge, lifting and retreating it



**G-33959**

*BREYER*

**FEMTO-LASIK HOOK INSTRUMENT**

angled  
1.3 mm wide scraper hook  
to delineate and remove the lenticule  
overall length 105 mm



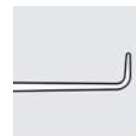
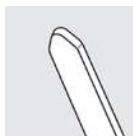


G-33944

KOHNEN

**FEMTO-LASIK DOUBLE-ENDED INSTRUMENT**

11 mm long x 0,5 mm wide spatula and  
2 mm modified *SINSKEY* hook, blunt tip  
overall length 120 mm

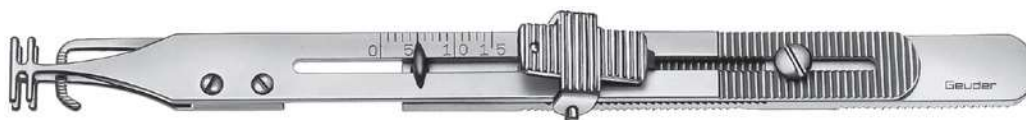


G-37450

BONN MODEL

**SUTURE TOOL**

for scleral sutures



G-19137

CUEPPERS

**STRABISMUS MUSCLE TUCKER**

15 mm scale, for muscle stretching  
serrated J-shaped tendon hook to  
prevent the muscle from slipping

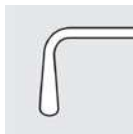


G-32726

MUENSTER MODEL

**SUTURE HOOK**

hook 5 mm  
overall length 149 mm





**G-15799** *GRAEFE*  
**STRABISMUS HOOK**  
short, 5 mm  
overall length 130 mm



**G-15800** *GRAEFE*  
**STRABISMUS HOOK**  
small, 8 mm  
overall length 131 mm



**G-15805** *GRAEFE*  
**STRABISMUS HOOK**  
medium, 10 mm  
overall length 133 mm



**G-15810** *GRAEFE*  
**STRABISMUS HOOK**  
large, 12 mm  
overall length 137 mm



**G-32915** *HAMBURG MODEL*  
**STRABISMUS HOOK**  
10 mm long  
slim 1 mm diameter hook  
overall length 135 mm



**G-15830** *MALBRAN*  
**STRABISMUS HOOK**  
9.5 mm serrated hook with right-angle knob  
to prevent muscle slippage  
overall length 140 mm



**G-15820** *BONN MODEL*  
**STRABISMUS HOOK**  
11 mm  
overall length 143 mm



**G-15821** *BONN MODEL*  
**STRABISMUS HOOK**  
11 mm retinal detachment hook  
with 1.0 mm hole  
overall length 143 mm



**G-32905** *BONN MODEL*  
**STRABISMUS HOOK**  
curved, tenotomy hook  
overall length 145 mm



**G-32920** *JAMESON*  
**STRABISMUS HOOK**  
11 mm, with bulbous tip  
overall length 125 mm

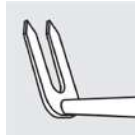


**G-37435**

*HATTENBACH*

**HORSESHOE-HOOK**

to pull the trocars off the lance  
and to remove the trocars from the sclera  
overall length 98 mm

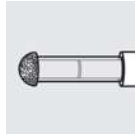


**G-37551**

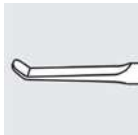
*BARTZ-SCHMIDT*

**ILM-SCRAPER**

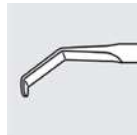
20 gauge / 0,9 mm  
diamond dusted tip



**MEMBRANE SPATULAS**



angled at 1,5 mm  
**G-37530** 20 gauge / 0,9 mm



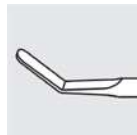
angled at 2 mm and 4 mm  
**G-37535** 20 gauge / 0,9 mm



subretinal pick, angled at 4 mm  
**G-37545** 20 gauge / 0,9 mm



*LUCKE*  
curved  
**G-37515** 20 gauge / 0,9 mm

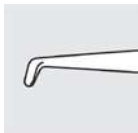


2,5 mm angled  
**G-37525** 20 gauge / 0,9 mm



angled at 1 mm, long rakes  
**G-37570** 20 gauge / 0,9 mm

**MEMBRANE PEELERS**



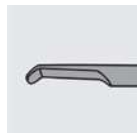
1,0 mm angled  
**G-37500** 20 gauge / 0,9 mm  
**G-37503** 23 gauge / 0,6 mm



*MORRIS-KROLL*  
1,5 angled  
**G-37505** 20 gauge / 0,9 mm



0,65 mm angled  
black chromium  
**G-37506** 20 gauge / 0,9 mm



0,4 mm, recessed, angled  
black chromium  
**G-37511** 20 gauge / 0,9 mm  
**G-37512** 23 gauge / 0,6 mm  
**G-37513** 25 gauge / 0,5 mm

