Abraham Blacksmith

Better Solutions for Better Surgeons

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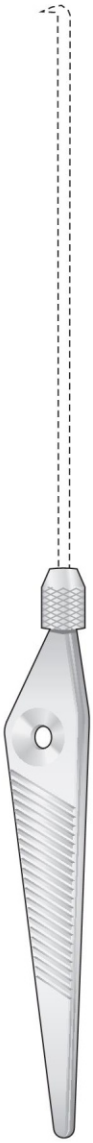
Arthroscopy
Arthroskopie
Arthroscopie
Artroscopia
Artroscopia

Abraham Blacksmith

Better Solutions for Better Surgeons



AS-60
125 mm

Scalpel-Knife
Skalpellmesser

AS-61
130 mm

Banana knife
toothed
Bananamesser
glatt

AS-62
130 mm

Meniscotome Smillie
4 mm straight edge
Meniskotome
Smillie 4 mm
Gerade Schneide

AS-63
130 mm

Meniscotome Smillie
5 mm straight edge
Meniskotome
Smillie 5 mm
Gerade Schneide

AS-64
130 mm

Knife
Incizionmesser
3 mm

AS-65
130 mm

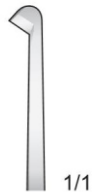
Knife
Incizionmesser
5 mm

AS-66
130 mm

Hook knife 90°
Hakenmesser 90°

AS-67
130 mm

Knife
Messer



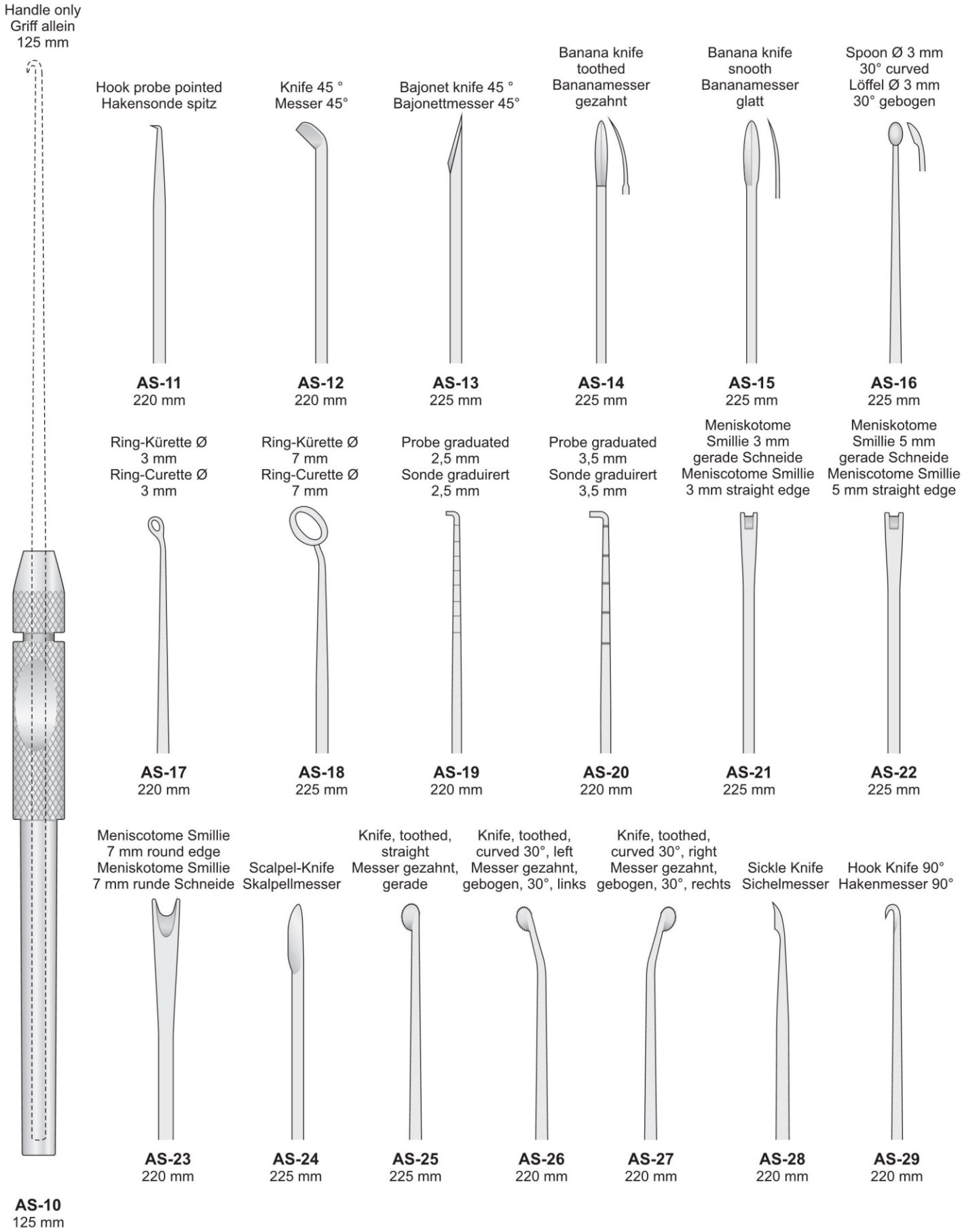
AS-68
130 mm

Meniscotome Smillie
5 mm round edge
Meniskotome
Smillie 5 mm
Runde Schneide

AS-69
130 mm

Hook probe
pointed
Hakensonde
Spitz

AS-70
130 mm



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AS-30
225 mm

AS-31
220 mm

AS-32
220 mm

AS-33
220 mm

AS-34
220 mm

AS-35
220 mm

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Spoon ø 3 mm
30° curved
Löffel ø 3 mm
30° gebogen

AS-36
220 mm

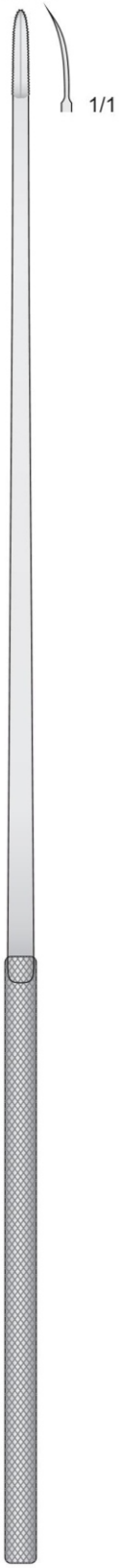
Smille Meniscotome
3 mm width
Smille Meniskotome
3 mm breit

AS-37
220 mm

Rosetten-Knife
stright
Rosettenmesser
gerade

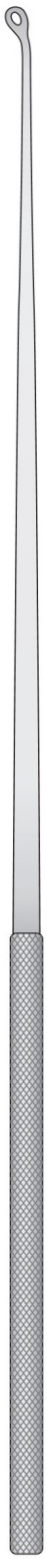
AS-38
220 mm

Banana-Knife
serrated
Bananamesser
gezahnt



AS-39
230 mm

Ring-Curette ø 3 mm
30° curved
Ring-Kürette ø 3 mm
30° gebogen



AS-40
220 mm

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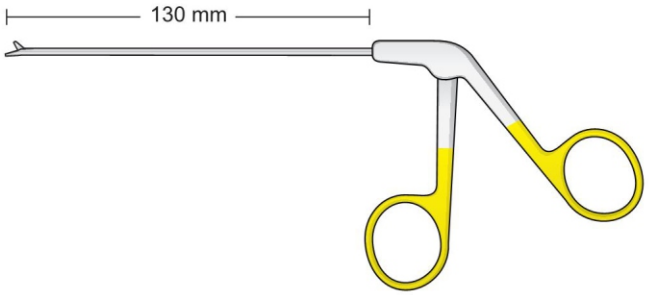
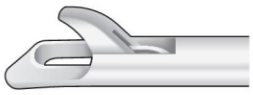
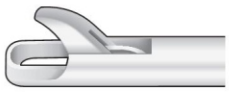
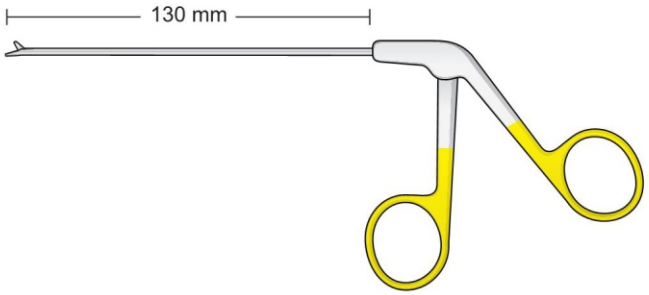


	Ø mm	Hakenstanzen mit Schaufel Hook Punches with Scoop Pinze per biopsia con pala Pinzas para biopsia con pala Pinces à biopsie à pelle  L = 5,0 mm B = 1,6 mm	Hakenstanzen abgesetz Hook Punches set down Pinze per biopsia Pinzas para biopsia Pinces à biopsie  L = 5,0 mm B = 1,6 mm	Hakenschere - Hook Scissors Pinze a gancio - Tijeras de gancho Pinces - ciseaux 
Gerade - Straight Diritta - Recto - Droit 	2,7	FO-370	FO-380	FO-390
	3,5	FO-310	FO-320	FO-340
30° rechts - right destra - derecha - droite 	2,7	FO-371	FO-381	FO-391
	3,5	FO-311	FO-321	FO-341
30° links - left - sinistra izquierda - gauche 	2,7	FO-372	FO-382	FO-392
	3,5	FO-312	FO-322	FO-342
45° rechts - right destra - derecha - droite 	2,7	FO-373	FO-383	FO-393
	3,5	FO-313	FO-323	FO-343
45° links - left - sinistra izquierda - gauche 	2,7	FO-374	FO-384	FO-394
	3,5	FO-314	FO-324	FO-344
7° auf - up - sopra 	2,7	FO-375	FO-385	FO-395
	3,5	FO-315	FO-325	FO-345
7° ab - down - sotto 	2,7	FO-376	FO-386	FO-396
	3,5	FO-316	FO-326	FO-346
15° auf - up - sopra 	2,7	FO-377	FO-387	FO-397
	3,5	FO-317	FO-327	FO-347
15° ab - down - sotto 	2,7	FO-378	FO-388	FO-398
	3,5	FO-318	FO-328	FO-348



	Ø mm	45° Stanze mit Schaufel Punch with Scoop Pinza con pala Pinzas con pala Pince à pelle L = 4,5 mm B = 1,6 mm	45° Stanze stumpf Punch blunt Pinza smussa Pinzas romas Pince mousse L = 4,5 mm B = 1,6 mm	90° Stanze mit Schaufel Punch with Scoop Pinza con pala Pinzas con pala Pince à pelle L = 4,5 mm B = 1,6 mm	90° Stanze stumpf Punch blunt Pinza smussa Pinzas romas Pince mousse L = 4,5 mm B = 1,6 mm
recths abgewinkelt right angled angolata destra angolada a la derecha courbe à droits	3,5	**FO-330**	**FO-334**	**FO-332**	**FO-336**
links abgewinkelt left angled angolata sinistra angolada a la izquierda courbe à gauche	3,5	**FO-331**	**FO-335**	**FO-333**	**FO-337**

	Ø mm	90° Breitmaulstanze klein Wide Jaw Punch small L = 7,0 mm B = 1,8 mm	90° Breitmaulstanze mittel Wide Jaw Punch medium L = 7,0 mm B = 3,0 mm
recths abgewinkelt right angled angolata destra angolada a la derecha courbe à droits	3,5	**FO-379**	**FO-319**
links abgewinkelt left angled angolata sinistra angolada a la izquierda courbe à gauche	3,5	**FO-389**	**FO-329**

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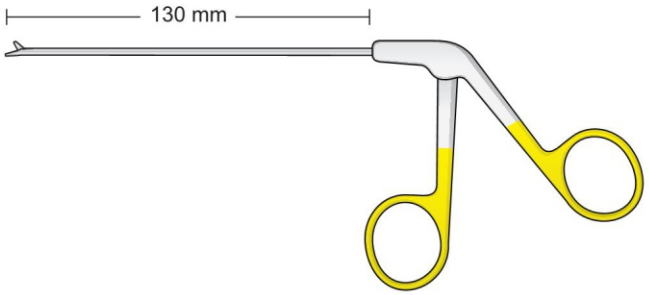
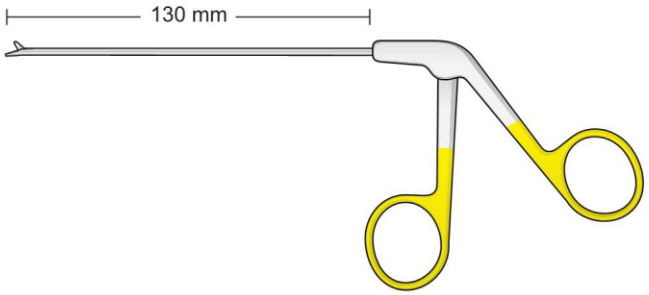
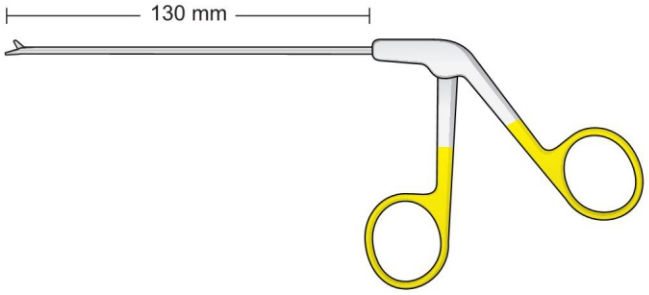


	Ø mm	Breitmaulstanze klein Wide Jaw Punch small  L = 6,0 mm B = 2,5 mm	Breitmaulstanze mittel Wide Jaw Punch medium  L = 5,0 mm B = 3,5 mm	Breitmaulstanze groß Wide Jaw Punch large  L = 5,0 mm B = 4,5 mm
Gerade - Straight Diritta - Recto - Droit 	3,5	**FO-401**	**FO-410**	**FO-419**
30° rechts - right destra - derecha - droite 	3,5	**FO-402**	**FO-411**	**FO-420**
30° links - left - sinistra izquierda - gauche 	3,5	**FO-403**	**FO-412**	**FO-421**
45° rechts - right destra - derecha - droite 	3,5	**FO-404**	**FO-413**	**FO-422**
45° links - left - sinistra izquierda - gauche 	3,5	**FO-405**	**FO-414**	**FO-423**
7° auf - up - sopra 	3,5	**FO-406**	**FO-415**	**FO-424**
7° ab - down - sotto 	3,5	**FO-407**	**FO-416**	**FO-425**
15° auf - up - sopra 	3,5	**FO-408**	**FO-417**	**FO-426**
15° ab - down - sotto 	3,5	**FO-409**	**FO-418**	**FO-427**



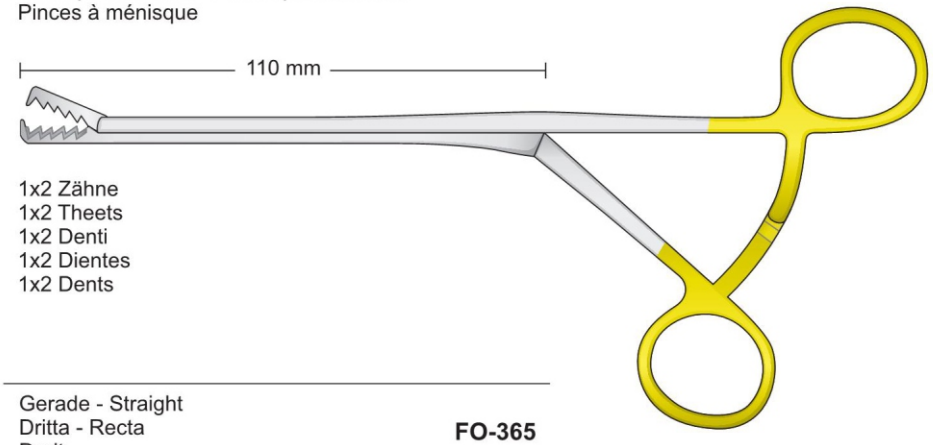
15° aufwärts gefräst - 15° up milled

	Ø mm	Breitmaulstanze klein Wide Jaw Punch small L = 6,0 mm B = 2,5 mm	Breitmaulstanze mittel Wide Jaw Punch medium L = 5,0 mm B = 3,5 mm	Breitmaulstanze groß Wide Jaw Punch large L = 5,0 mm B = 4,5 mm
Gerade - Straight Diritta - Recto - Droit	3,5	**FO-428**	**FO-437**	**FO-446**
30° rechts - right destra - derecha - droite	3,5	**FO-429**	**FO-438**	**FO-447**
30° links - left - sinistra izquierda - gauche	3,5	**FO-430**	**FO-439**	**FO-448**
45° rechts - right destra - derecha - droite	3,5	**FO-431**	**FO-440**	**FO-449**
45° links - left - sinistra izquierda - gauche	3,5	**FO-432**	**FO-441**	**FO-450**
7° auf - up - sopra	3,5	**FO-433**	**FO-442**	**FO-451**
7° ab - down - sotto	3,5	**FO-434**	**FO-443**	**FO-452**
15° auf - up - sopra	3,5	**FO-435**	**FO-444**	**FO-453**
15° ab - down - sotto	3,5	**FO-436**	**FO-445**	**FO-454**



		1x2 Zähne - 1x2 Theets - 1x2 Denti - 1x2 Dientes - 1x2 Dents			
	Ø mm	Faßzange Grasping Forceps Pinza da presa Pinza para agarrar Pinces à préhension	Faßzange Grasping Forceps Pinza da presa Pinza para agarrar Pinces à préhension	Faßzange Grasping Forceps Pinza da presa Pinza para agarrar Pinces à préhension	Faß- und Biopsiezange Grasping - Biopsy Forceps Pinza da presa e biopsia Pinza para agarrar y biopsia Pinces préhension - biopsie
ohne Sperre without catch senza cremagliera sin cremallera sans crémaillère	2,7	**FO-350**		**FO-355**	**FO-358**
ohne Sperre without catch senza cremagliera sin cremallera sans crémaillère	3,5	**FO-351**	**FO-353**	**FO-356**	**FO-359**
mit Sperre with catch con cremagliera con cremallera avec crémaillère	3,5	**FO-352**	**FO-354**	**FO-357**	**FO-360**

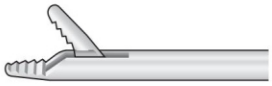
Meniskus Faßzangen - Meniscus Grasping forceps
Pinza per menisco - Pinzas para menisco
Pinces à ménisque



1x2 Zähne
1x2 Theets
1x2 Denti
1x2 Dientes
1x2 Dents

Gerade - Straight Dritta - Recta Droit	**FO-365**
Rechts Gebogen - Right curved Curva a destra - Curva a la derecha Courbe a droites	**FO-366**
Links Gebogen - Left curved Curva a sinistra - Curva a la izquierda Courbe a gauche	**FO-367**

Ø 2,0 mm

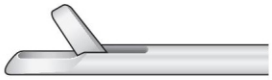


FO-301
Mini Grasping forceps

Ø 2,0 mm

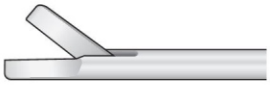
FO-302
Mini rongeur and biopsy forceps

Ø 2,0 mm



FO-303
Mini punch for arthroscopy

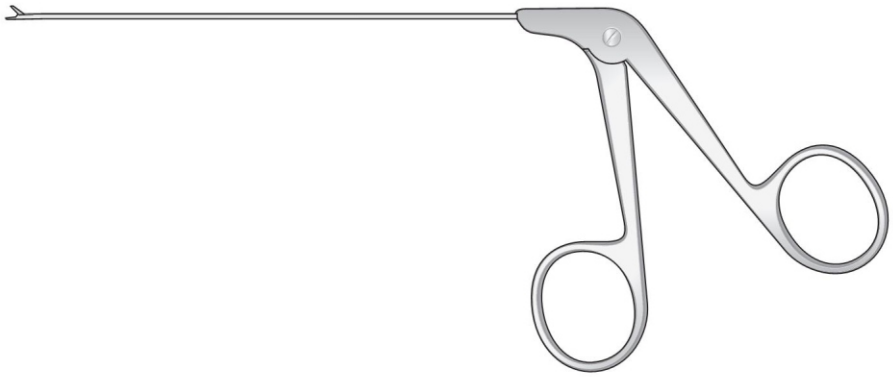
Ø 2,0 mm



FO-304
Mini scissors for arthroscopy

110 mm

Ø 2,0 mm



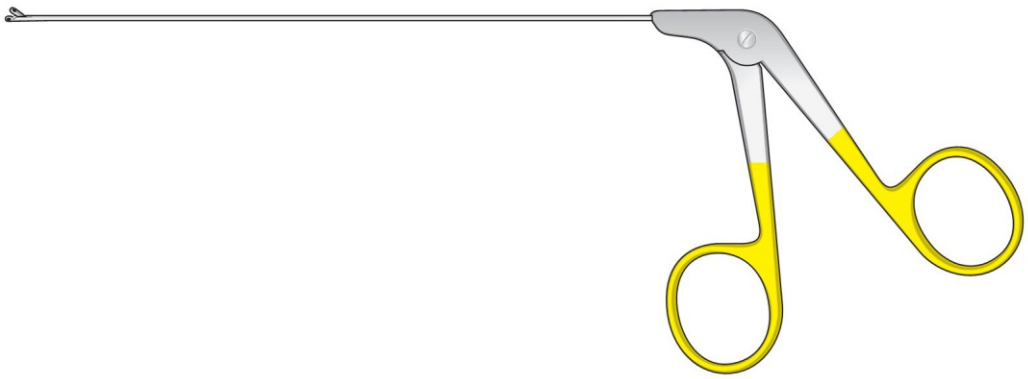
FO-301/FO-304
110 mm

Ø 2,0 mm

FO-305
Mini rongeur and biopsy forceps

140 mm

Ø 2,0 mm



FO-305
140 mm

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Cleaning, Maintenance and Sterilization of Surgical Instruments

SHARPEN - LUBRICATE

India # 6 — *Medium grit* — Arkansas # 6A — *100 x 45 mm / 4 x 1.8 in* — *Fine texture*

DB-3 DB-6A

Wedge Stones

They combine flat surfaces with rounded edges to manually sharpen internal parts (straight and curved edges) of curettes and scalers.

Arkansas: for routine sharpening and finishing.

India: for sharpening of excessively dull instruments or those requiring recontouring.

Arkansas # 4 — *100 x 25 x 12 mm / 4 x 1 x 0.5 in*

DB-4

Rectangular Stone

A flat and rectangular stone used to sharpen all cutting parts of surgical instruments.

Necessary in routine sharpening and finishing of edge and toe of an instrument.

Arkansas # 299 — *Ø 8 x 90 mm / Ø 0.3 x 3.5 in*

DB-299

Conical Stone

A cone-shaped and cylindrical stone used to manually sharpen internal parts of curettes, scalers, gouges, rongeurs, etc. (in areas that otherwise cannot be reached).

Arkansas # 8 — *100 x 50 x 13 mm / 4 x 2 x 0.5 in*

DB-96

Flat Stone

A flat and rectangular stone used to sharpen all cutting parts of scissors, osteotomes, curettes, etc. (whenever necessary).

Oil — *30 cc / 1 fl oz*

DB-OL

Lubricating and Sharpening Oil

A non-coloured oil, which is an indispensable complement for lubricating and manual sharpening of surgical instruments. To activate the abrasive properties of Arkansas or India stones and to reduce the possibility of overheating the instruments during sharpening. It should be applied on all hinges or all other parts which are subject to movement or friction. Its use facilitates elimination of any residue present within the instrument hinges. Used to ensure perfect function and fluid movement of all surgical instruments.
Must ALWAYS be used during all sharpening operations.

Ceramic — *76 x 25 x 6 mm / 3 x 1 x ¼ in*

DB-71

Ceramic Stone

Ceramic stones are valued for their durability and the very keen edge they give in the finer grits. Will never pit or groove. Used for routine sharpening procedures.
Autoclave safe.

Ceramic: *use only dry. (Do not use with oil, water or lubricants)*

Arkansas: *a natural stone extracted from the Arkansas mountains.*
India: *a synthetic stone quarried from the finest Ozark novaculite -silicon quartz- deposits.*

RINSE - CLEAN

CLEANLACT | Detergent Milk

Special milk for surgical instruments. Anticorrosive, bacteriostatic and lubricating action on all surgical instruments. Extends your instrument's lifetime. It guarantees perfect maintenance by eliminating eventual stains, halos and browning due to sterilization, disinfection and washing with tap water.

Must be applied periodically, diluted or concentrated.
(see special instructions on packaging)

DB-50M — *500 cc / 17 oz* DB-1L — *1000 cc / 34 oz*

Brushes | *Autoclavables*

Special brushes to clean surgical instruments.

Used to remove eventual residue, organic or not, from all surgical instruments, in particular in angled, hinged and knurled parts, without damaging instrument surface.

Must be applied every time, for regular cleaning of all instrumentation and in the event that an instrument is exposed for an extended period to air before being immersed in the cleaning solution.

DB-11 — *155 mm / 6 in* DB-12 — *175 mm / 7 in*

Special Rubbers for metal

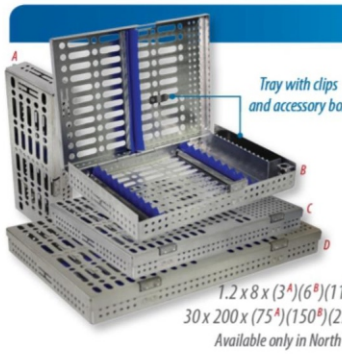
50 x 40 x 20 mm / 2 x 1.6 x 0.8 in

An abrasive eraser specially designed for surgical instruments to remove stains, halos or persistent burnishing from all surgical instruments without damaging the instrument surface.

Necessary when routine cleaning does not remove all stains.

DB-08 *Coarse* DB-07 *Fine*

STERILIZATION

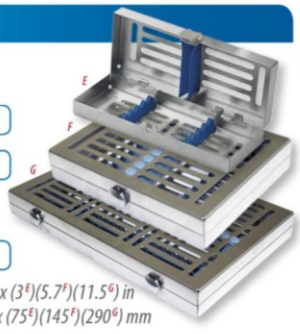


Stainless Steel Cassettes

Silicone racks - Autoclavable

BS-905[A] *5 instruments* BS-59[E]
BS-910[B] *10 instruments* BS-60[F]
BS-915[C] *15 instruments*
BS-920[D] *20 instruments* BS-61[G]

1.2 x 8 x (3[A])(6[B])(11[C])(12[D]) in
30 x 200 x (75[A])(150[B])(275[C])(300[D]) mm
Available only in North America



1.4 x 7 x (3[E])(5.7[F])(11.5[G]) in
35 x 185 x (75[E])(145[F])(290[G]) mm

TESTING

Teflon Testing Stick

Ø 8 x 100 mm / Ø 0.3 x 3.5 in

A hard plastic stick used to test the blade of an instrument to determine the sharpness of an instrument.

Must be used ALWAYS. If the blade of the instrument runs smoothly over the plastic stick, then it is blunt. A sharp instrument will grab into the stick and removes small fragments of the plastic.

DB-15

CODING

Silicone Code Rings

DB-941 *120* *Items* DB-942 *175*

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Maintenance Cycle and Tips

Surgical Instrument Spa Cycle

RINSE AND CLEAN

- Remove gross soil.
- Place the instruments in aldehyde-free disinfectant bath.
- Rinse in running water.
- Disassemble where possible.
- Soak in cleaning solution.
- Brush, operate moving parts.
- Rinse in running water and inspect.
- Place on absorbent paper.

ULTRASONIC CLEANER

- Soak in ultrasonic bath.
- Clean with brushes.
- Rinse in running water.
- Soak in disinfectant solution.
- Clean with brushes again.
- Rinse in running water.
- Dry (compressed air, wipes or oven).

SHARPEN AND LUBRICATE

- Visual inspection. Functional check.
- Use sharpening stones Arkansas or India with lubricating and sharpening oil (DB-OL).
- Evaluate the cutting edge with a teflon testing stick (repeat sharpening if necessary).
- Lubricate moving parts with high density lubricant (DB-OL).
- Use Cleanlact milk (anticorrosive and bacteriostatic detergent / anti-rust finish).

PACKING AND STERILISATION

- Store in sterilization cassettes or containers.
- Single or double packaging.
- Use steam sterilization (autoclave), chemical sterilization (chemiclave) or dry heat sterilization.

STORAGE AND USE

- Control environment.
- Control shelf life.
- Ready to use or storage.

SHARPEN YOUR INSTRUMENTS

Why?

Surgical Instruments should be kept identical to their original design. Surgical procedures are most effective when using sharp instruments as they reduce hand and wrist fatigue, improve calculus removal, save time, improve tactile sensitivity, and minimize patient discomfort.

When?

Instruments should be sharpened lightly after each use; there are two ways to evaluate whether the cutting edge is dull and requires sharpening:

- **Visual**: The cutting edge should be inspected regularly in a good light (and if possible, under magnification). If the cutting edge is blunt it will be rounded and reflect the light. A dull, non-reflective line indicates sharpness.
- **Teflon Test Stick** (DB-15): If the blade of the instrument runs smoothly over the testing stick, then it is blunt. A sharp instrument will grab into the stick and removes small fragments of the plastic.

How?

Generally, the instruments should be sharpened following this procedure:

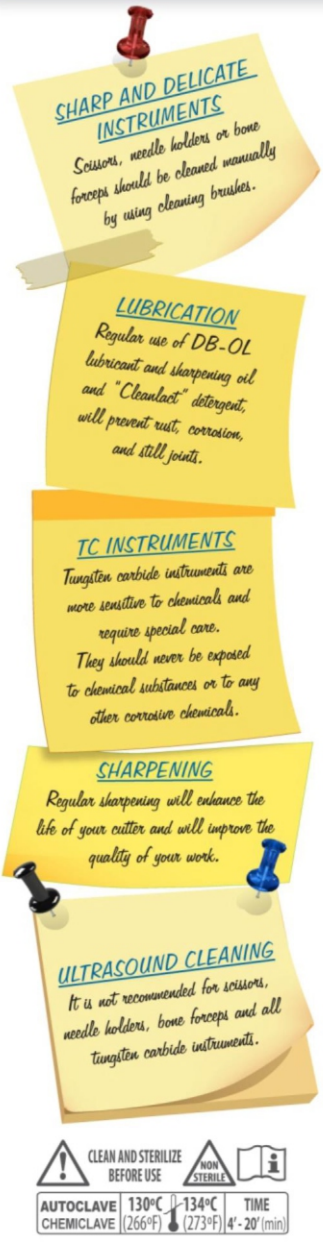
1. Place one drop of sharpening oil (**DB-OL**) on the **Arkansas** sharpening stone. Lubrication improves the movement of the instrument blade over the stone; also, it prevents the metal particles from clogging the stone.
2. Hold the instrument in one hand, while applying the stone to the lateral surface angled with the face of the blade.
3. Position the stone to contact the heel of the blade and work toward the tip, keeping the stone in contact with the blade throughout the sharpening procedure.
4. Move the stone up and down with short strokes, placing more pressure on the down stroke (do not move the instrument, keep the instrument still).
5. Always finish instrument sharpening with a down stroke; this will prevent a rough edge from forming and remove any flash of metal.
6. Evaluate the sharpness with teflon test stick (**DB-15**). If the blade is still dull, re-evaluate the angle of the stone and repeat the sharpening (steps 2-6).

SHARPENING OF SCALERS AND CURETTES

Sickle Scaler Toe End: the sickle scaler has a pointed tip and, therefore, the stone is held straight as it nears the tip.

Curette Toe End: the curette has a rounded toe, so the position of the stone is adapted around the rounded cross-section.

⚠ *Always finish instrument sharpening with a down stroke; this will prevent a rough edge from forming and remove any flash of metal.*



RINSE AND CLEAN

Immediately after surgery, rinse instruments under warm running water (NOT HOT). Use only neutral detergent (pH=7).

ULTRASONIC CLEANING

It is recommended for regular instruments such as hand instruments and extraction forceps, following this procedure:

1. Sort instruments carefully so as to include only instruments compatible with ultrasonic cleaning. Do not combine different metals (stainless, copper, chrome plated, etc.).
2. Place instruments in open position. Make certain sharp edges are not touching other instruments.
3. Change solution frequently to avoid accumulation of micro organisms.
4. After rinsing and before sterilization, inspect and dry the instruments thoroughly.

⚠ *Ultrasonic cleaning does not sterilize.*
Do not use for TC instruments, sharp and delicate instruments.

STERILIZATION

Autoclave (Steam Sterilization)

Time: 4 - 20 min. / Temperature: 130° - 134°C (266° / 273°F)

Chemiclave (Chemical Sterilization)

Time: 4 - 20 min. / Temperature: 130° - 134°C (266° / 273°F)

Dry Heat Sterilization *(not recommended)*

Time: 60 - 90 min. / Temperature: 160° - 170°C (320° / 340°F)

⚠ *Sterilization cannot substitute cleaning.*

CARE OF SHARPENING STONES

After use, wipe the stone with a clean cloth to remove metal particles. Then, clean the stone by scrubbing or using ultrasound to remove lubricant before sterilization. After sterilization, lubricate with **DB-OL** before each use.

⚠ *Be sure to use entire stone to prevent "grooving".*

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