F · S · T®

Fine Science Tools

2019 CATALOG

FINE SURGICAL INSTRUMENTS FOR RESEARCH™

100% Satisfaction Guarantee

FST (Fine Science Tools Inc.)社及び室町機械㈱は
満足度100%を実現すべく
お客様の立場に立ったサービスを心がけております。

実際に製品を見てから購入可能な『貸出サービス』を提供しております。

購入された製品に不具合がある場合は交換させていただきます。

FST社製品の『研磨・修理サービス』も行っております。

（ピンセットは研磨・修理しましても元の状態に戻すことは難しいため、新規のご購入をお薦めしております）

室町機械HP上で FST 社製品の在庫・定価検索が
可能になりました。QRコードよりぜひお試しください。

本カタログ記載の器具は全て動物実験用であり 臨床用にはご使用になれません。

Muromachi
輸入販売元

室　町　機　械　株　式　会　社

Letter from the Chairman of the Board

Dear customers,

Over 40 years ago, I started Fine Science Tools with the belief that the research community deserved an option for high quality surgical instruments. From the early days of serving the local community in Vancouver, Canada to becoming a worldwide distributor, our core value of matching impeccable quality with honest and outstanding customer service has, and always will, remain the same.

Throughout our illustrious history, our instruments have been used everywhere, from the International Space Station to university classrooms and biotechnology companies worldwide; our passion for innovation and perfection has never ceased. Each year we improve our quality control processes in order to ensure the highest quality surgical instruments. Our products are crafted with stringent standards, allowing us to provide the 100% customer satisfaction guarantee we are known for.

Always looking forward, I am happy to announce the launch of our new Fine Science Tools website, which allows us to better serve the needs of the research community. You, the customer, now have even greater flexibility and support when choosing the right instruments for the tasks at hand.

On behalf of myself and our entire Fine Science Tools team, we want to thank you for your patronage and look forward to supporting you in your future endeavors.

Sincerely,

Hans Gawenda,
Chairman of the Board

Hans Gawenda
Chairman of the Board

Rob Gawenda
President

Michael Dosch
Chief Executive Officer

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Scissors, Bone Instruments & Scalpels

Spring Scissors	Pages	3 – 14
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These Vannas-style spring scissors have the smallest blades ever produced. They are ideal where space is restricted and where absolute precision is demanded.

200%

Cutting edge: 2 mm
Tip diameter: 0.05 mm
8 cm

Straight — No. 15000-03

Curved — No. 15000-04

The short taper is ideal for small, precise cuts.

250%

Cutting edge: 2.5 mm
Tip diameter: 0.075 mm
8 cm

Straight — No. 15000-08

Curved — No. 15001-08

Angled to side — No. 15002-08

MOST POPULAR

The long taper is ideal for cutting vessel walls or when a longer cutting edge is needed.

300%

Cutting edge: 3 mm
Tip diameter: 0.05 mm
8 cm

Straight — No. 15000-00

Curved — No. 15000-10

MOST POPULAR

Vannas

Cutting edge: 4 mm
Tip diameter: 0.15 mm
10.5 cm

Straight

No. 15018-10

Curved

No. 15019-10

Vannas-Tübingen

Cutting edge: 5 mm
Tip diameter: 0.1 mm

Straight
8.5 cm

No. 15003-08

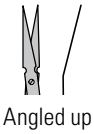
MOST POPULAR

Curved
8.5 cm

No. 15004-08

Angled to side
8.5 cm

No. 15008-08



Angled up
9.5 cm

No. 15005-08

Vannas Scissors with Microserrations

Microserrated to minimize slippage.

Tip diameter: 0.1 mm

Straight

Cutting edge: 4 mm
8.5 cm
No. 15070-08

Cutting edge: 5 mm
9 cm
No. 15007-08

Curved

Cutting edge: 4 mm
8.5 cm
No. 15071-08

Miniature Vannas

Hand finished using 40x magnification, these tips are especially useful when incising vessel walls for catheter insertion.

Cutting edge: 5 mm
Tip diameter: 0.1 mm
8 cm

Straight

Moria 9600
No. 15396-00

Curved

Moria 9601
No. 15396-01

Titanium Vannas

·TITANIUM·

For more information see page 183.

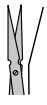
Cutting edge: 5 mm
Tip diameter: 0.3 mm
9.5 cm

Straight

No. 15610-08

Curved

No. 15615-08



Angled up

No. 15617-08

Cohan-Vannas

Long cutting blades for a more controlled cut.

Cutting edge: 6 mm
Tip diameter: 0.125 mm
5.7 cm

Straight

Sharp/Sharp
No. 15000-02

Blunt/Blunt
No. 15000-12

Curved

Sharp/Sharp
No. 15000-01

Blunt/Blunt
No. 15000-11

ToughCut® Spring Scissors

TOUGH CUT

For more information see page 183.

Cutting edge: 6 mm
Tip diameter: 0.3 mm
12.5 cm

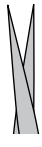
Straight — No. 15124-12

Curved — No. 15123-12

Round Handled Vannas

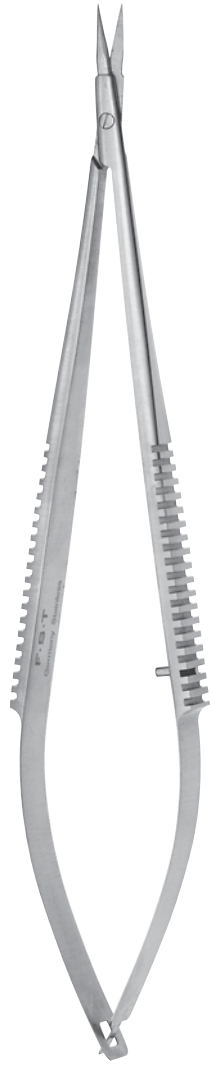
Round handles allow easy fingertip adjustments.

Cutting edge: 6 mm
Tip diameter: 0.1 mm
12.5 cm

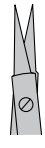


Straight — No. 15400-12

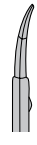
Curved — No. 15401-12



Cutting edge: 6 mm
Tip diameter: 0.15 mm
14 cm



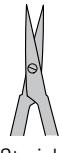
Straight — No. 15020-15



Curved — No. 15021-15

Ceramic Coated Spring Scissors

Cutting edge: 7 mm
Tip diameter: 0.1 mm
10 cm



Straight

No. 15750-11

Curved

No. 15751-11

Vannas-Wolff

Cutting edge: 7 mm
Tip diameter: 0.15 mm
10 cm

Straight

Moria MC52
No. 15370-52

Curved

Moria MC50
No. 15370-50

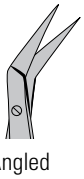
Ultra long cutting edge
without sacrificing tip width.

Cutting edge: 8 mm
Tip diameter: 0.125 mm
8.5 cm

Straight

No. 15009-08

Cutting edge: 10 mm
Tip diameter: 0.125 mm
10 cm

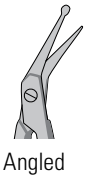


Angled

No. 15006-09

Same as No. 15006-09 but with a ball tip to prevent piercing of underlying tissue.

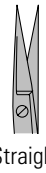
Cutting edge: 8 mm
Tip diameter: 1.3 mm Ball
9 cm



Angled

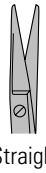
No. 15033-09

Cutting edge: 8 mm
Tip diameter: 0.15 mm
10 cm



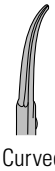
Straight
Sharp/Sharp

No. 15024-10



Straight
Blunt/Blunt

No. 15025-10



Curved
Sharp/Sharp

No. 15023-10

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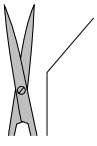
Dowell

Cutting edge: 10 mm
Tip diameter: 0.1 mm
11.5 cm

Straight

No. 15040-11

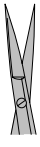


Angled up

No. 15042-11

Noyes

Cutting edge: 14 mm
Tip diameter: 0.2 mm
12 cm

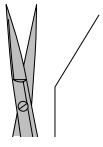


Straight

No. 15012-12

Curved

No. 15011-12



Angled up

No. 15013-12

Tungsten Carbide Noyes

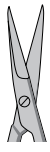
Tungsten carbide cutting edges provide long lasting sharpness.

TUNGSTEN CARBIDE

For more information see page 183.

Tungsten Carbide Cutting Edges

Cutting edge: 14 mm
Tip diameter: 0.275 mm
12 cm



Straight

No. 15514-12

Castroviejo

Cutting edge: 10 mm
Tip diameter: 0.2 mm
10 cm

Sharply curved

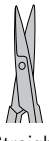
No. 15017-10

Ceramic Coated Titanium Castroviejo

·TITANIUM·

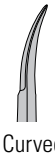
For more information
see page 183.

Cutting edge: 5 mm
Tip diameter: 0.2 mm
11 cm



Straight

No. 15650-11



Curved

No. 15651-11

Westcott

Cutting edge: 15 mm
Tip diameter: 0.25 mm
11 cm

Slightly curved

No. 15015-11

Fine, angled spring scissors similar to Wecker.

NEW ITEM

Angled

Cutting edge: 2 mm
Tip diameter: 0.1 mm
9.5 cm

No. 15010-09

Cutting edge: 4 mm
Tip diameter: 0.125 mm
10 cm

No. 15010-10

Pascheff-Wolff

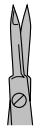
Very delicate blades.

Cutting edge: 3 mm
Tip diameter: 0.15 mm
10.5 cm

Angled

Moria MC19/B
No. 15371-92

Cutting edge: 5 mm
Tip diameter: 0.2 mm
18.5 cm



Straight

No. 15028-18

Curved

No. 15027-18

Trident II

A re-release of a popular spring scissors now with a new innovative design for a better feel.

Cutting edge: 8 mm
Tip diameter: 0.2 mm
8 cm

Straight

No. 15110-08

Angled

No. 15111-08

EVO Spring Scissors

These evolutionary ergonomic instruments are lighter than titanium but still have all the benefits of stainless steel. The fully fenestrated spring body has a stability rod to provide balance in your hand.

Cutting edge: 6 mm
Tip diameter: 0.05 mm
15 cm

Straight

No. 15800-00

Curved

No. 15800-01

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For the Finest Microdissection

The finest blades on spring scissors. Designed for ophthalmic surgery (vitrectomy). The spring handles are made of ribbed plastic to ensure a solid grip. **Autoclavable.**

Cutting edge: 2.5 mm
Tip diameter: 0.175 mm
14.5 cm

200% of actual size

Straight
Microserrations to minimize slippage.

No. 15030-14

200% of actual size

Angled to side

No. 15031-14

14 cm

200% of actual size

Straight
Cutting edge: 2.2 mm
Tip diameter: 0.15 mm

No. 15036-14

200% of actual size

Angled 90°
Cutting edge: 1 mm
Tip diameter: 0.1 mm

No. 15037-14

Ultra Fine Clipper Scissors II

For microscopic dissections of soft and mucous tissue. The minute fineness of the blades allows clear visualization of the tissue being dissected.

Uses:

- Removing sheath of ganglia to access neurons in aplysia.
- Cutting single nerve axons in aplysia, mollusk and snail.
- Stripping fascia off arteries and muscles.
- Ultra fine brain tissue dissection.
- Cutting of minute fiber optic strands.

Blade shape: Triangular
Blade thickness: 0.1 mm
Tip thickness: 0.05-0.08 mm
Cutting edge: 1.5-2 mm
10 cm

No. 15300-00

Biemer Scissors

These scissors are designed to securely cut vessels without slipping.

Cutting edge: 4 mm
8.5 cm

No. 15032-08

Cutting edge: 2 mm
13 cm

No. 15032-13

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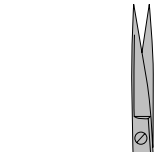
Extra Fine Bonn

Our finest iris scissors, best suited for microdissection under high magnification.



Straight
8.5 cm

Sharp/Sharp
No. 14084-08

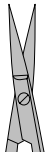
MOST POPULAR

Curved
8.5 cm

Sharp/Sharp
No. 14085-08

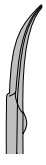
Sharp/Blunt
No. 14083-08

Bonn



Straight
Sharp/Sharp
9 cm

No. 14184-09



Curved
Sharp/Sharp
9 cm

No. 14185-09

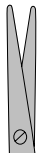
ToughCut® Bonn-Strabismus

A fusion of two light and delicate iris scissors with ToughCut cutting edges.

TOUGH CUT

For more information see page 183.

ToughCut



Straight
Blunt/Blunt
9 cm

No. 14084-09

Curved
Blunt/Blunt
9 cm

No. 14085-09

Hardened Fine Iris Scissors

These scissors have undergone an extra vacuum hardening process that extends the life of their cutting edges. They have an anti-reflective finish to reduce glare.

Straight
Sharp/Sharp

9 cm
No. 14090-09

MOST POPULAR

11 cm
No. 14090-11

Curved
Sharp/Sharp

9 cm
No. 14091-09

11 cm
No. 14091-11

Fine Iris Scissors

Made from Martensitic stainless steel, combined with Molybdenum and Vanadium.

Straight
Sharp/Sharp
10.5 cm

No. 14094-11

Curved
Sharp/Sharp
10.5 cm

No. 14095-11

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Delicate pattern.

Straight
Sharp/Sharp

9 cm
No. 14060-09

10.5 cm
No. 14060-10

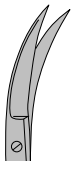
11.5 cm
No. 14060-11

Curved
Sharp/Sharp

9 cm
No. 14061-09

10.5 cm
No. 14061-10

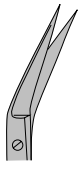
11.5 cm
No. 14061-11



Curved to side
Sharp/Sharp

9 cm
No. 14062-09

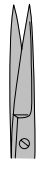
10.5 cm
No. 14062-10



Angled to side
Sharp/Sharp

9 cm
No. 14063-09

11.5 cm
No. 14063-11



Straight
Sharp/Sharp

LEFT HANDED

10.5 cm

No. 14160-10

Curved
Sharp/Sharp

LEFT HANDED

10.5 cm

No. 14161-10

Straight
Sharp/Sharp
10.5 cm

Moria 4877
No. 14370-22

Shallow curve
Sharp/Sharp
10.5 cm

Moria 4878
No. 14370-23

Extra narrow, delicate pattern. Very slim blades with gentle cutting action.

Side-view showing extra narrow pattern

Straight
Sharp/Sharp
10.5 cm

No. 14088-10

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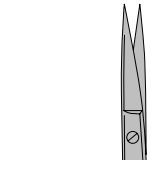


Straight
Sharp/Sharp
Large finger loops
10 cm

No. 14040-10

Curved
Sharp/Sharp
Large finger loops
10 cm

No. 14041-10

Wagner

Straight
Sharp/Sharp
Non-serrated
12 cm

No. 14068-12

Curved
Sharp/Sharp
Non-serrated
12 cm

No. 14069-12

Straight
Sharp/Sharp
Serrated
12 cm

No. 14070-12

Curved
Sharp/Sharp
Serrated
12 cm

No. 14071-12

ToughCut®

TOUGH CUT

For more information see page 183.

ToughCut

Straight
Sharp/Sharp

9 cm
No. 14058-09

11.5 cm
No. 14058-11

MOST POPULAR

Curved
Sharp/Sharp

9 cm
No. 14059-09

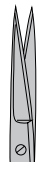
11.5 cm
No. 14059-11

Tungsten Carbide

TUNGSTEN CARBIDE

For more information see page 183.

Tungsten Carbide Cutting Edges



Straight
Sharp/Sharp

9 cm
No. 14568-09

11.5 cm
No. 14568-12

Curved
Sharp/Sharp

9 cm
No. 14569-09

11.5 cm
No. 14569-12

ToughCut® and Tungsten Carbide

TOUGH CUT

For more information see page 183.

TUNGSTEN CARBIDE

For more information see page 183.

ToughCut and Tungsten Carbide Cutting Edges

Straight
Sharp/Sharp

9 cm
No. 14558-09

11.5 cm
No. 14558-11

Curved
Sharp/Sharp

9 cm
No. 14559-09

11.5 cm
No. 14559-11

CeramaCut®

These ceramic-coated scissors are the cleanest cutting, longest lasting scissors ever produced. Utilizing the unique properties of a ceramic coating, they will last six times longer than tungsten carbide instruments and cut even better than ToughCut® scissors. The black, corrosion-resistant coating has a non-glare finish.

CERAMA CUT

For more information see page 183.

CeramaCut

Straight
Sharp/Sharp

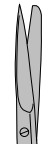
9 cm
No. 14958-09

11.5 cm
No. 14958-11

Curved
Sharp/Sharp

9 cm
No. 14959-09

11.5 cm
No. 14959-11



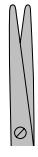
Straight
Sharp/Blunt
10 cm

No. 14028-10

Curved
Sharp/Blunt
10 cm

No. 14029-10

Lexer-Baby



Straight
Blunt/Blunt
10 cm

No. 14078-10

Curved
Blunt/Blunt
10 cm

No. 14079-10

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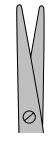
Strabismus



Straight
Blunt/Blunt

9 cm
No. 14074-09

11.5 cm
No. 14074-11

Curved
Blunt/Blunt

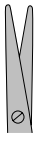
9 cm
No. 14075-09

11.5 cm
No. 14075-11

Tungsten Carbide Strabismus

For more information
see page 183.

Tungsten Carbide Cutting Edges



Straight
Blunt/Blunt

9 cm
No. 14574-09

11 cm
No. 14574-11

Curved
Blunt/Blunt

9 cm
No. 14575-09

11 cm
No. 14575-11

Walton

Slightly curved
Sharp/Sharp

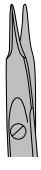
9.5 cm
No. 14077-09

10.5 cm
No. 14077-10

Stevens Tenotomy

Straight
Sharp/Sharp
11 cm

No. 14064-11



Straight
Blunt/Blunt
11 cm

No. 14066-11

Curved
Sharp/Sharp
11 cm

No. 14065-11

Curved
Blunt/Blunt
11 cm

No. 14067-11

ToughCut® LaGrange

One edge is serrated to minimize slippage of tissue during cutting. Curved handle helps when cutting from an awkward angle.

TOUGH CUT

For more information see page 183.

Side View

ToughCut

Curved
Sharp/Sharp
11.5 cm

No. 14173-12

Shea

Transplant scissors with light and delicate pattern.

Curved
Blunt/Blunt
12 cm

No. 14105-12

Dissector Scissors

Slim blades for cutting tissue.

Angled to side
Sharp/Sharp
Cutting edge: 8 mm
10 cm

No. 14081-09

Similar to 14081-09, but with stronger blades for cutting fine bone.

Angled to side
Sharp/Sharp
Cutting edge: 12 mm
10.5 cm

No. 14082-09

Spencer Ligature

Used for cutting stitches or suture.

Sharp/Sharp
9 cm

No. 14076-09

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Bonn Artery

Iris scissors with one ball tip to prevent piercing of underlying tissue.

Delicate

Sharp/1.5 mm Ball
9 cm

No. 14086-09

Sharp/1.5 mm Ball
11.5 cm

No. 14080-11

See page 8 for artery-style spring scissors.

Tissue Separating Scissors

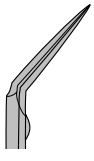
Blunt/Blunt
11.5 cm

No. 14072-10

The finger loops can be enlarged to fit almost any size.

Kaye

These scissors have semi-sharp outer edges to better facilitate dissection.



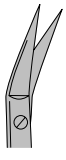
Sharply angled up
Sharp/Sharp
10.5 cm

No. 14037-10

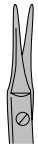
Straight
Large finger loops
9.5 cm

Sharp/Sharp
No. 14106-09

Angled to side
Large finger loops
9.5 cm



Sharp/Sharp
No. 14107-09



Blunt/Blunt
No. 14108-09

Gently curved
Blunt/Blunt
Serrated
Large finger loops
10.5 cm

No. 14171-10

Standard Pattern

Our standard surgical scissors are recognized for these important features:

- Special alloy that gives their cutting edges long life and superior sharpness.
- Excellent feel and handling capability.
- Overall execution that marks them as fine examples of German workmanship.

Length (cm)	Straight Sharp/Sharp	Straight Sharp/Blunt	Straight Blunt/Blunt
12	No. 14002-12	No. 14001-12	No. 14000-12
13	No. 14002-13	No. 14001-13	No. 14000-13
14.5	No. 14002-14	No. 14001-14*	No. 14000-14
16.5	No. 14002-16	No. 14001-16	No. 14000-16
18.5		No. 14001-18	No. 14000-18
20			No. 14000-20

***** Left-handed version also available.

LEFT HANDED

No. 14008-14

Length (cm)	Curved Sharp/Sharp	Curved Sharp/Blunt	Curved Blunt/Blunt
12	No. 14005-12	No. 14004-12	No. 14003-12
13	No. 14005-13	No. 14004-13	No. 14003-13
14.5	No. 14005-14	No. 14004-14	No. 14003-14
16.5	No. 14005-16	No. 14004-16	No. 14003-16
18.5		No. 14004-18	No. 14003-18
20			No. 14003-20

ToughCut® Standard Pattern

TOUGH CUT

For more information see page 183.

ToughCut

Straight
Sharp/Blunt

13 cm
No. 14054-13

17.5 cm
No. 14130-17

Tungsten Carbide Standard Pattern

TUNGSTEN CARBIDE

For more information see page 183.

Tungsten Carbide Cutting Edges

Straight
Sharp/Sharp
14.5 cm
No. 14502-14

Straight
Sharp/Blunt
14.5 cm
No. 14501-14

Curved
Sharp/Sharp
14.5 cm
No. 14505-14

Curved
Sharp/Blunt
14.5 cm
No. 14504-14

Standard Pattern with Serrations

Straight
Sharp/Blunt
Serrated
14 cm

No. 14007-14

Standard Pattern with Large Finger Loops

Straight
Sharp/Blunt
Large finger loops
14.5 cm

No. 14101-14

Tungsten Carbide Mini-Lister

For more information see page 183.

Tungsten Carbide Cutting Edges

Angled to side
Blunt/Blunt
Smooth
9 cm

No. 14531-09

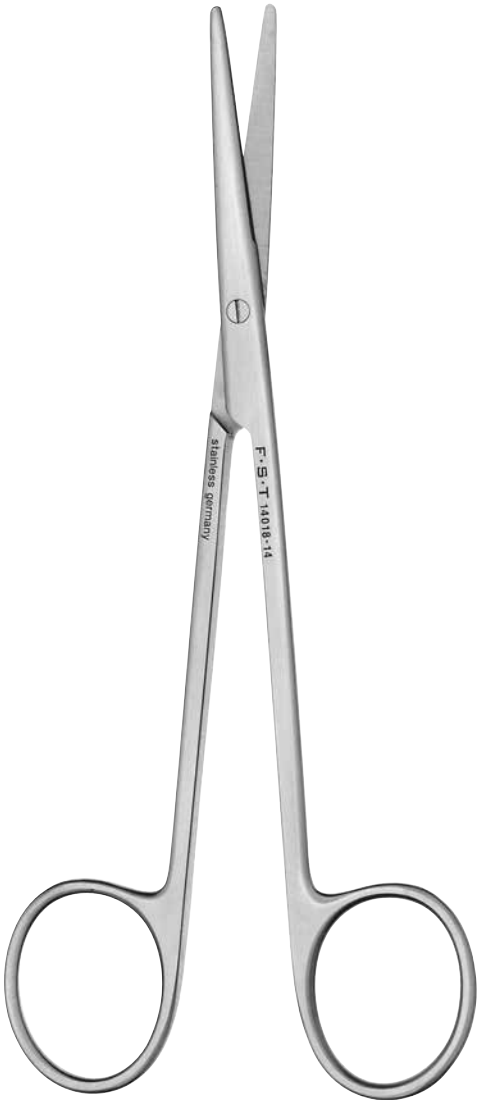
Lister

Excellent skin cutting scissors. Longer, blunt blade prevents damaging tissue underneath skin without losing the cutting line.

Angled to side
Blunt/Blunt
Serrated
14 cm

No. 14131-14

Metzenbaum Baby



Straight
Blunt/Blunt

13 cm
No. 14018-13

14.5 cm
No. 14018-14

18 cm
No. 14018-18

Curved
Blunt/Blunt

13 cm
No. 14019-13

14.5 cm
No. 14019-14

18 cm
No. 14019-18

Tungsten Carbide Metzenbaum Fino

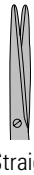
TUNGSTEN CARBIDE

For more information
see page 183.

Tungsten Carbide Cutting Edges

Straight
Blunt/Blunt
Ultra fine tips

14.5 cm
No. 14508-15



Straight
Blunt/Blunt

14.5 cm
No. 14518-14

18 cm
No. 14518-18

Curved
Blunt/Blunt
Ultra fine tips

14.5 cm
No. 14509-15

Curved
Blunt/Blunt

14.5 cm
No. 14519-14

18 cm
No. 14519-18

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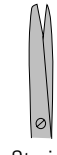
Metzenbaum



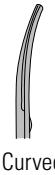
Straight
Sharp/Blunt

14.5 cm
No. 14024-14

Straight
Blunt/Blunt

14.5 cm
No. 14016-14

18 cm
No. 14016-18



Curved
Blunt/Blunt

14.5 cm
No. 14017-14

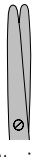
18 cm
No. 14017-18

ToughCut® Metzenbaum

TOUGH CUT

For more information see page 183.

ToughCut



Straight
Blunt/Blunt

14.5 cm
No. 14116-14

18 cm
No. 14116-18

Curved
Blunt/Blunt

14.5 cm
No. 14117-14

18 cm
No. 14117-18

Mayo

Straight
Blunt/Blunt

15 cm
No. 14010-15

17 cm
No. 14010-17

Curved
Blunt/Blunt

15 cm
No. 14011-15

17 cm
No. 14011-17

ToughCut® Mayo

TOUGH CUT

For more information
see page 183.

ToughCut

Straight
Blunt/Blunt

15 cm
No. 14110-15

17 cm
No. 14110-17

Curved
Blunt/Blunt

15 cm
No. 14111-15

17 cm
No. 14111-17

Tungsten Carbide Mayo

TUNGSTEN CARBIDE

For more information
see page 183.

Tungsten Carbide Cutting Edges

Straight
Blunt/Blunt

15 cm
No. 14510-15

17 cm
No. 14510-17

Curved
Blunt/Blunt

15 cm
No. 14511-15

17 cm
No. 14511-17

Straight
Blunt/Blunt
ToughCut

15 cm
No. 14512-15

17 cm
No. 14512-17

Mayo-Stille

Straight
Blunt/Blunt

15 cm
No. 14012-15

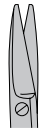
17 cm
No. 14012-17

Curved
Blunt/Blunt

15 cm
No. 14013-15

17 cm
No. 14013-17

Mayo-Noble



Straight
Blunt/Blunt
16.5 cm

No. 14014-17

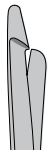
Curved
Blunt/Blunt
16.5 cm

No. 14015-17

Decapitation Scissors

Stop guard at tips to prevent slippage.

80% of
actual size

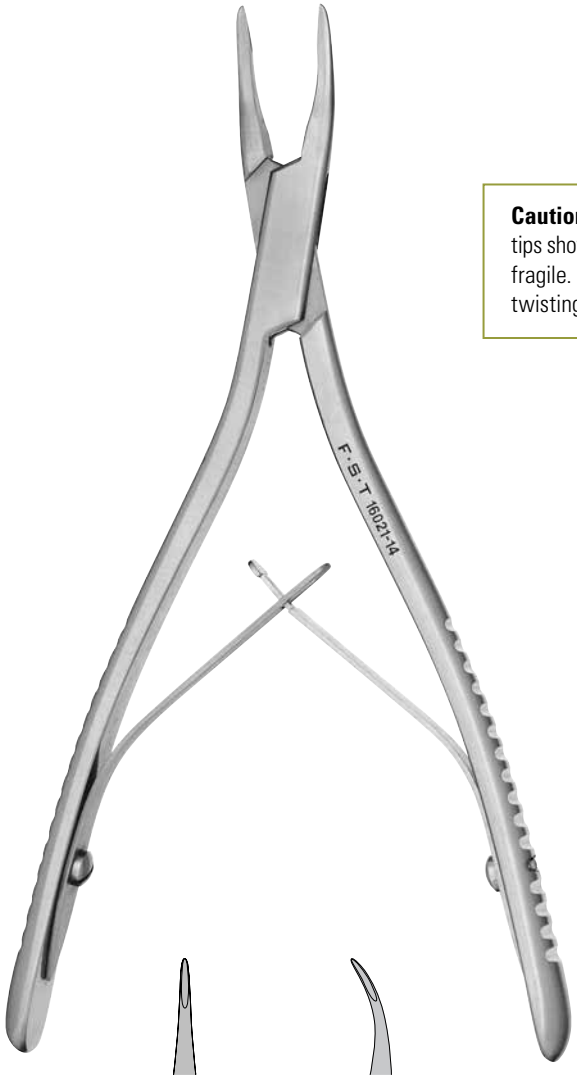


Straight
Blunt/Blunt
21 cm

No. 14200-21

Friedman-Pearson

This popular, fine-tipped rongeur is suited for delicate work. The fine-cupped jaws have been designed with a longer and slimmer approach for better visibility.



Straight
14 cm

0.5 mm Cup
No. 16220-14

0.7 mm Cup
No. 16120-14

1 mm Cup
No. 16020-14

Curved
14 cm

0.5 mm Cup
No. 16221-14

0.7 mm Cup
No. 16121-14

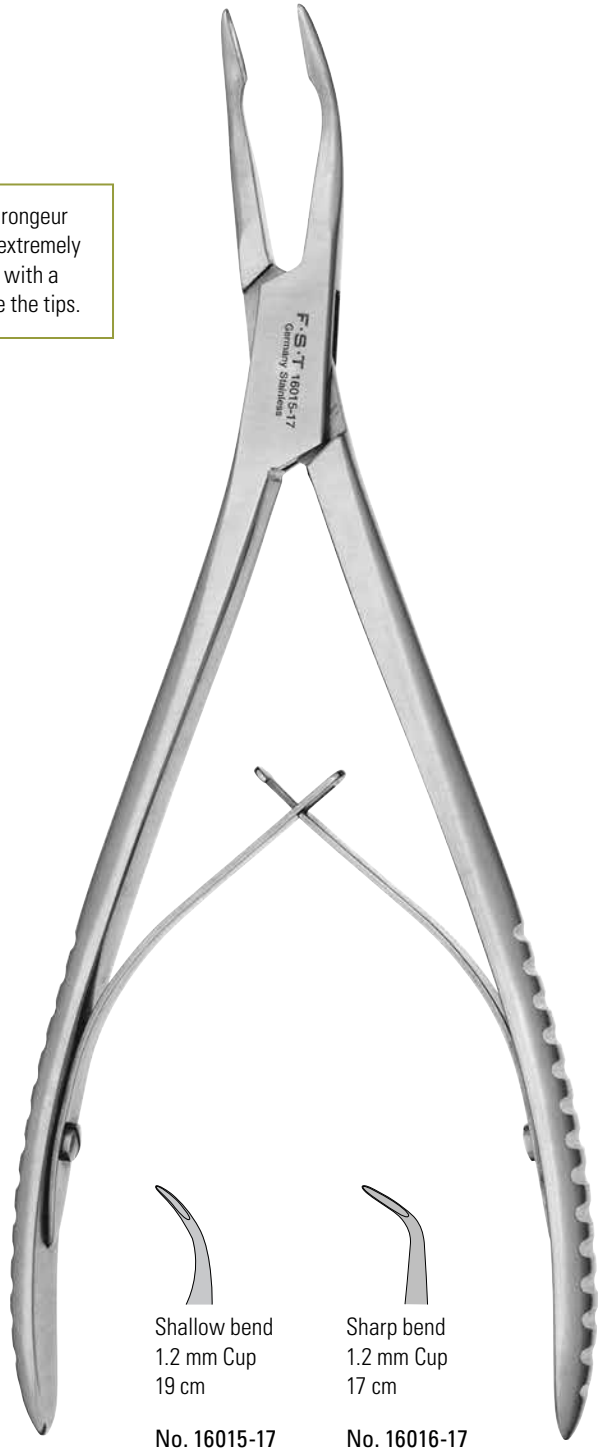
1 mm Cup
No. 16021-14

MOST POPULAR

Cautionary note: The fine rongeur tips shown on this page are extremely fragile. Removal of material with a twisting motion can damage the tips.

Pearson

Provides excellent visibility at dissection site due to its extra long and narrow approach to the fine cutting jaws. Especially suitable for larger hands.



Shallow bend
1.2 mm Cup
19 cm

No. 16015-17

Sharp bend
1.2 mm Cup
17 cm

No. 16016-17

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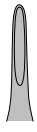
Baby-Beyer

Double-action rongeur with strong jaws helps relieve hand strain.

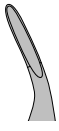
Diameter of this circle determines cup size.

Form an imaginary circle that will fit in the very tip of the instrument and measure its diameter.



Straight
2 mm Cup
15 cm

No. 16023-15



Curved
2 mm Cup
15 cm

No. 16022-15

Beyer

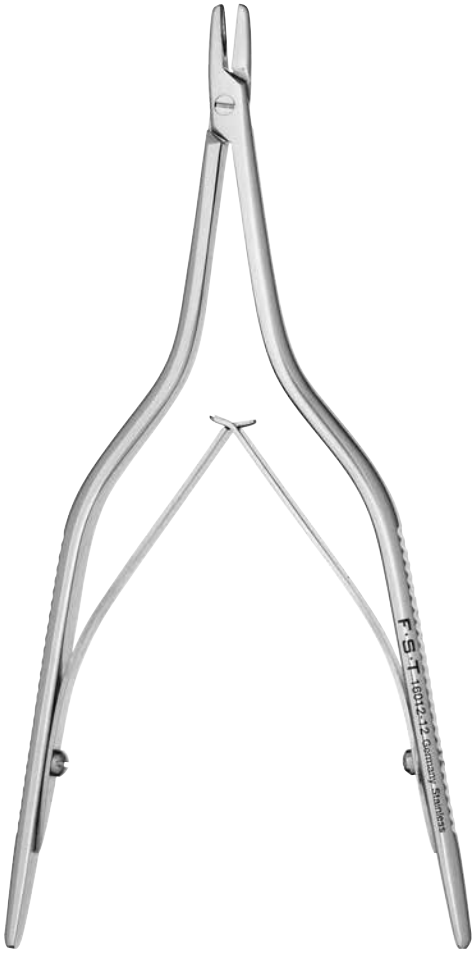
Double-action rongeur with strong jaws helps relieve hand strain.

Curved
2.5 mm Cup
18 cm

No. 16002-18

Boynton

A very delicate rongeur for medium to soft materials only.

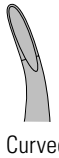


Straight
2 mm Cup
12.5 cm

No. 16012-12

Friedman

Strong and large jaws are ideal for use on the harder, outer regions of the spinal cord. Also can be used to gain access to delicate structures encased in bone.



Curved
2.5 mm Cup
13 cm

No. 16000-14

Lempert

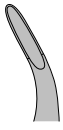
Extra fine jaws.

Diameter of this circle determines cup size.

Form an imaginary circle that will fit in the very tip of the instrument and measure its diameter.

Straight
2.5 mm Cup
16 cm

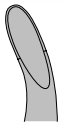
No. 16004-16



Curved
2.5 mm Cup
16 cm

No. 16005-16

Luer



Curved
4 mm Cup
15 cm

No. 16001-15

Bone Trimmers

Curved
Cutting edge: 8 mm
14 cm

No. 16109-14

Cartilage Cutter

Round cutting blades for tissue, cartilage and soft bone.

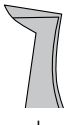
Curved
Cutting edge: 9 mm
14 cm

No. 16107-14

Dumont #15a Bone Cutter

Cutting edge on both outside and inside bevel. Cuts suture, cartilage, bone and steel wire to 0.06 mm, and copper wire to 0.15 mm. **Not autoclavable.**

Hard carbon steel

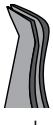


Cutting edge: 10 mm
Jaw opening: 2.5 mm
Hard carbon steel
11.5 cm

No. 11215-01

Dumont #15a Bone Cutter Epoxy Coated

Same structure and functionality as Item No. 11215-01 (left), but with an epoxy coating up to the cutting edge for easier care and maintenance. **Not autoclavable.**



Cutting edge: 6 mm
Jaw opening: 2.5 mm
Epoxy coated carbon steel
11.5 cm

No. 11215-02

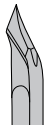
Bone Forceps

Strong cross-serrated tips for bone crushing and removal.

Angled
Cross serrated
Tip diameter: 1 mm
11.5 cm

No. 16060-11

Bone Nipper



Angled
Cutting edge: 5 mm
11 cm

No. 16102-11

Offset Bone Nipper

Strong jaws for cutting
tough cartilage.

Angled
Cutting edge: 7 mm
10 cm

No. 16101-10

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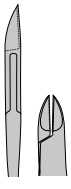
Malleus Nipper

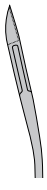


Straight
Serrated
Cutting edge: 9 mm
11 cm

No. 16140-11

Angled down
Serrated
Cutting edge: 9 mm
11 cm

No. 16141-11



Angled up
Serrated
Cutting edge: 9 mm
11 cm

No. 16142-11

Bone Cutting Spring Scissors

Straight
Cutting edge: 12 mm
13 cm

No. 16144-13

Delicate Bone Cutting Spring Scissors

Slim, strong blades for cutting fine bone and tissue.

NEW ITEM

Curved
Cutting edge: 12 mm
12 cm

No. 16143-12

Littauer Bone Cutter

Cutting edge: 15 mm
11 cm
No. 16152-11

Cutting edge: 17 mm
12.5 cm
No. 16152-12

Cutting edge: 19 mm
15 cm
No. 16152-15

Beebee Bone Scissors

Very strong jaws with sharp points.

MOST POPULAR

Straight
Cutting edge: 15 mm
10 cm

No. 16044-10

Tungsten Carbide Bone Scissors

Strong heavy blades for cutting bone.

TUNGSTEN CARBIDE

For more information see page 183.

Tungsten Carbide Cutting Edges

Straight
Cutting edge: 15 mm
12.5 cm

No. 16030-12

Straight
Cutting edge: 15 mm
16 cm

No. 16030-16

Boehler

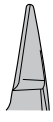
Bone splitting cutter with very fine tips and double action joint to relieve strain on your hand.

Angled up 10°
Cutting edge: 18 mm
15 cm

No. 16130-15

Skull Flap Cutter

One tip has a flat and narrow platform which fits between dura and skull. Other tip has sharp cutting edge.



Angled up 15°
Cutting edge: 10 mm
14 cm

No. 16050-15

Cleveland Cutter

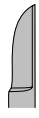
Straight

Cutting edge: 14 mm
15 cm
No. 16106-14

Cutting edge: 15 mm
17 cm
No. 16105-16

Liston

Gross anatomy bone cutter.

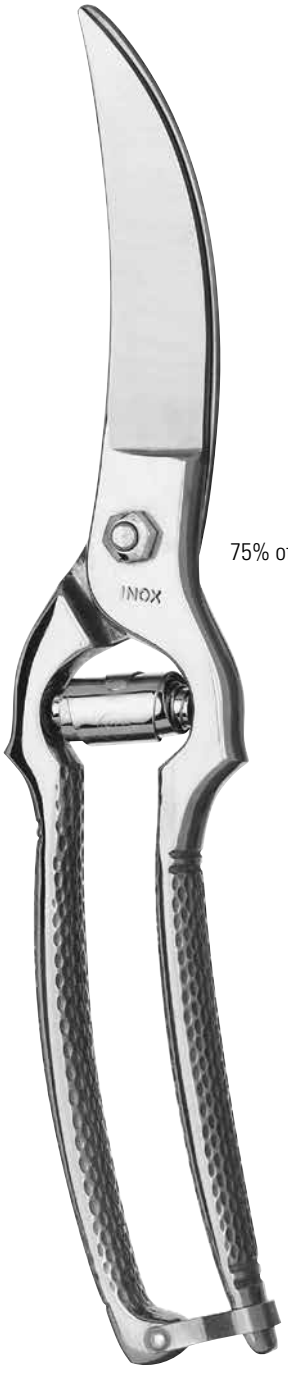


Straight

Cutting edge: 20 mm
14 cm
No. 16104-14

Cutting edge: 30 mm
20 cm
No. 16104-19

Bone Shears



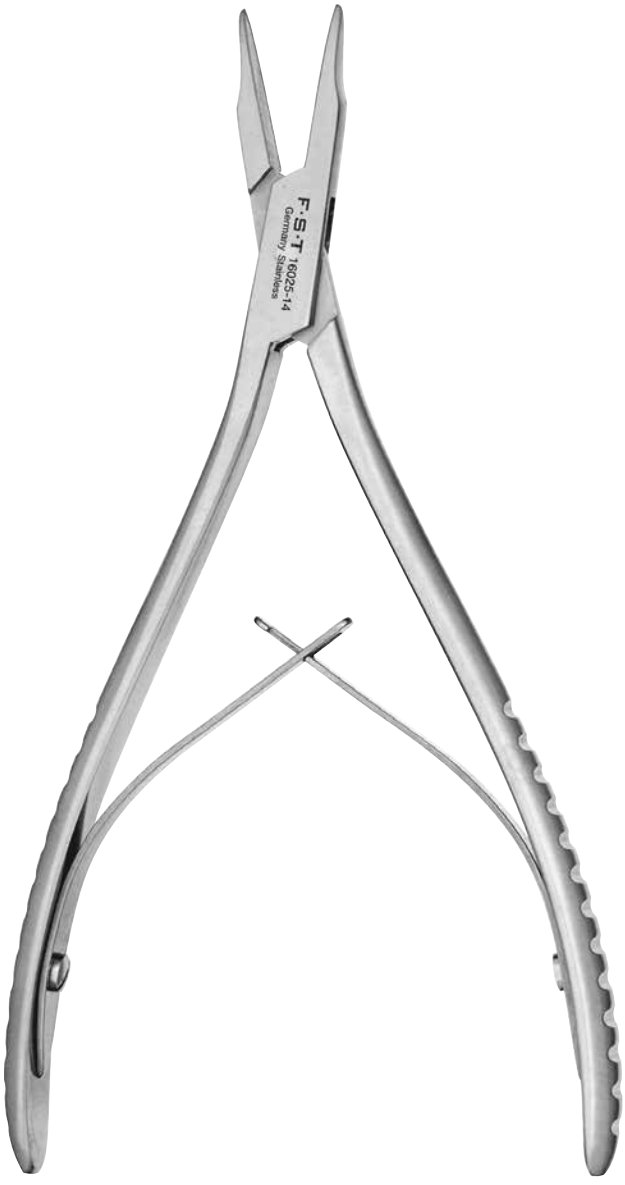
75% of actual size

Cutting edge: 6.5 cm
24 cm

No. 16150-24

Bone Pliers

To peel back skull flaps.



Flat surface
15.5 cm

No. 16025-14

Self-Holding Pin and Bone Screw Forceps

Designed with a serrated tip and grooved cup for a stable and secure grip, these forceps hold pins and screws allowing precise placement at your target area. They are compatible with all Fine Science Tools insect pins, minutien pins and bone screws.

200%

Polished stainless steel
14 cm

No. 26100-00

Miniature Self-Tapping Bone Screws

Used extensively to anchor dental cement to bone, these self-tapping screws have superior holding strength over ordinary machine screws. Stainless steel with fillister flat head.

Shaft diameter: 0.86 mm
Length: 4 mm

Pkg. of 100 screws
No. 19010-10

For pre-drilling use our 0.7 mm burrs, see page 159.

Shaft diameter: 1.19 mm
Length: 4.8 mm

Pkg. of 100 screws
No. 19010-00

For pre-drilling use our 0.9 mm burrs, see page 159.

Bone Wax

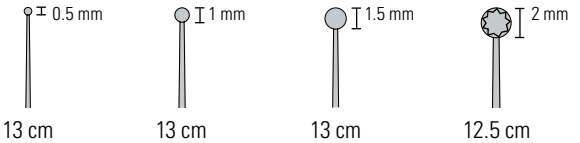
A beeswax-based compound for bone hemostasis. Soft, kneadable and ready to use. **Sterile.**

Box of 12 foil packs (2.5 g each)
No. 19009-00

Micro Curette

Curette tips consist of a scoop with sharp edges and are used for scraping or cleaning. They can also be used for separating and transporting, inoculating plates or transferring small amounts of chemicals.

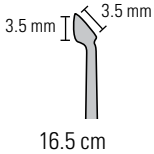
Serrations on cutting edge



13 cm	13 cm	13 cm	12.5 cm
No. 10080-05	No. 10081-10	No. 10082-15	No. 10083-20

Delicate Bone Scraper

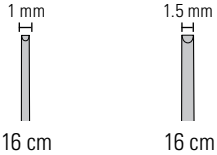
For scraping tissue without cutting into bone.



16.5 cm

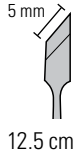
No. 10075-16

Austin Chisel



16 cm	16 cm
No. 10096-16	No. 10097-16

Dissecting Chisel



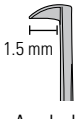
12.5 cm

No. 10095-12

Von Graefe Knife

Used for cutting dura.

300%

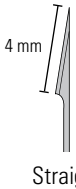


Angled 90°
Cutting edge: 1.5 mm
13 cm

No. 10059-13

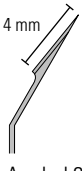
One of the most popular dissecting knives with a microfine point. The cutting edge is lance shaped to provide the ideal cutting angle.

Cutting edge: 4 mm
12.5 cm



Straight

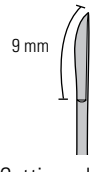
No. 10055-12



Angled 30°

No. 10056-12

Sichel



Cutting edge: 9 mm
12 cm

No. 10073-14

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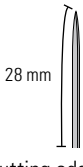
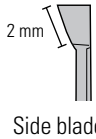


Cutting edge: 28 mm
13 cm

No. 10370-13

200%



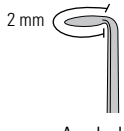
Side blade 20°
Cutting edge: 2 mm
15 cm

No. 10058-15

Circle Knife

Sharp cutting edge around tip.

250%



Angled 90°
Cutting edge: 2 mm
16 cm

No. 10059-15

Ceramic Blades

Advantages:

- Ceramic edge stays sharp 100 times longer than steel edge
- Rust and corrosion free
- Chemical and acid resistant
- Withstands up to 2400°C (4352°F)
- No electrostatic discharge concerns
- No trace metal contamination
- Fully nonmagnetic
- **Autoclavable**

Handle

12.5 cm
No. 10025-50

Ceramic Blade

45° Cutting Edge
Cutting edge: 8 mm
33 x 6 x 0.5 mm

Pkg. of 5 blades
No. 10025-45

Diamond Knives

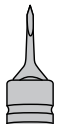
This knife has a gem-quality, neutral diamond blade which is honed to the finest cutting edge possible. The blade is made to an ophthalmic surgical standard and is inspected under 400x magnification. The retractable handle aids in care and storage.

Cautionary note:

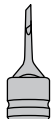
This blade is extremely fragile and vulnerable to lateral pressure.

Tip thickness: 0.15 mm
Cutting edge: 1 mm
12 cm

Grip slides up the handle to protect the tip for safe storage and packing.



Cutting angle: 30°
No. 10100-30



Cutting angle: 45°
No. 10100-45

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Obsidian Stone Age Scalpels

For applications where extremely fine cuts are required or for studies where trace metals from ordinary scalpel blades cannot be tolerated. These ultra fine cutting edges have been used in human surgical procedures where objectionable scar tissue results from the use of standard scalpels.

The blade is made from obsidian—a type of volcanic glass—which allows a much finer blade than is possible with the conventional steel blade. In some cases this makes the relatively inexpensive obsidian scalpel a suitable substitute for an expensive diamond knife.

Patterned after "stone age" knives which first made their appearance about 18,000 years ago, these modern versions utilize hard wood and plastic dowels for handles. Plastic dowels are made of polyoxymethylene.

Cautionary note:

Obsidian is a very fragile material. Great care should be taken to not exert any lateral pressure on the blade during cutting. Each blade is hand-fashioned, so sizes, shapes and points will vary. While all the blades will have at least one sharp edge, some will have two.

150%

Wood Dowel
Straight
Not autoclavable

Approximate blade length: 6 mm
No. 10110-01

Approximate blade length: 12 mm
No. 10110-03

150%

Plastic Dowel
Approximate blade length: 6 mm
Autoclavable

NEW ITEM

Straight
No. 10110-05

150%

Plastic Dowel
Approximate blade length: 6 mm
Autoclavable

NEW ITEM

Angled
No. 10110-07

Gross Anatomy Knives

Handles are made of fiberglass reinforced yellow nylon with a slip resistant surface that allows little chance of bacterial accumulation. The blades are made of German Molybdenum Stainless Steel.

40% of
actual size

Dissection knife

Cutting edge: 13 cm
28 cm
No. 10157-13

Cutting edge: 15 cm
30 cm
No. 10157-15

Cutting edge: 18 cm
33 cm
No. 10157-18

40% of
actual size

Brain sectioning knife

Cutting edge: 30 cm
45 cm
No. 10152-30

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Blade Holders and Breakers

Flat surface

Jaw width: 4 mm
11 cm
No. 10052-11

Surface with concave and convex jaws

Handle diameter: 5.5 mm
9 cm
No. 10053-09

Handle diameter: 8 mm
13 cm
No. 10053-13

Breakable Carbon Steel Blades

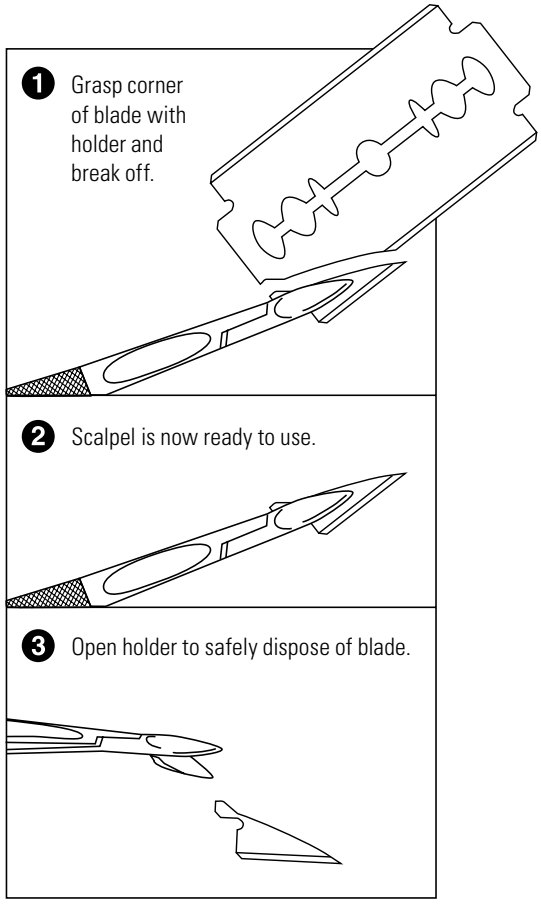
These special, high carbon content blades are the only blades that will break cleanly.

Blade thickness: 0.1 mm

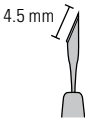
Box of 10 blades
No. 10050-00

Create Your Own Blade

With these blade holders/breakers and our special carbon steel blades, No. 10050-00, you can produce microblades in sizes that meet your own individual needs.



Cold forged from carbon steel and sharpened to eliminate tissue distortion and blade drag. 12.5 cm plastic handle with slip-proof grip. **Sterile.**

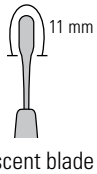


Cutting angle: 22.5°
Tip thickness: 0.15 mm
Cutting edge: 4.5 mm
13.5 cm

No. 10316-14 MOST POPULAR

Cutting angle: 15°
Tip thickness: 0.15 mm
Cutting edge: 5 mm
13 cm

No. 10315-12



Crescent blade
Tip thickness: 0.20 mm
Cutting edge: 11 mm
14 cm

No. 10317-14

Needle blade
Tip thickness: 0.20 mm
Cutting edge: 4 mm
14.5 cm

No. 10318-14

Interchangeable Carbon Steel Blades

Handle for Interchangeable Blades

9.5 cm
No. 10035-00

12.5 cm
No. 10035-12

Angled blade
Carbon steel
Cutting edge: 10 mm

Pkg. of 5 blades
No. 10035-15

Curved blade
Carbon steel
Cutting edge: 10 mm

Pkg. of 5 blades
No. 10035-20

Small flat blade
Carbon steel
Cutting edge: 1.5 mm

Pkg. of 5 blades
No. 10035-05

Large flat blade
Carbon steel
Cutting edge: 2.75 mm

Pkg. of 5 blades
No. 10035-10

Cane blade
Carbon steel
Cutting edge: 12 mm

Pkg. of 5 blades
No. 10035-25

Arc blade
Carbon steel
Cutting edge: 12 mm

Pkg. of 5 blades
No. 10035-30

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Scalpel with Plastic Handle #4

For heavy, gross anatomy work. Molded to fit hand.

#4 Plastic
13.5 cm

No. 10008-13

Standard Scalpel Handle #4 Solid

Especially suitable for large dissections.

#4 Solid
13 cm

No. 10004-13

Blades for #4 Scalpel Handle

The alloy used has a high carbon content which provides a longer lasting edge. Blades come individually wrapped. **Non-sterile.**

Box of 100 blades
No. 10020-00

Box of 100 blades
No. 10021-00

Box of 100 blades
No. 10022-00

Box of 100 blades
No. 10023-00

Standard Scalpel Handle #3 Solid

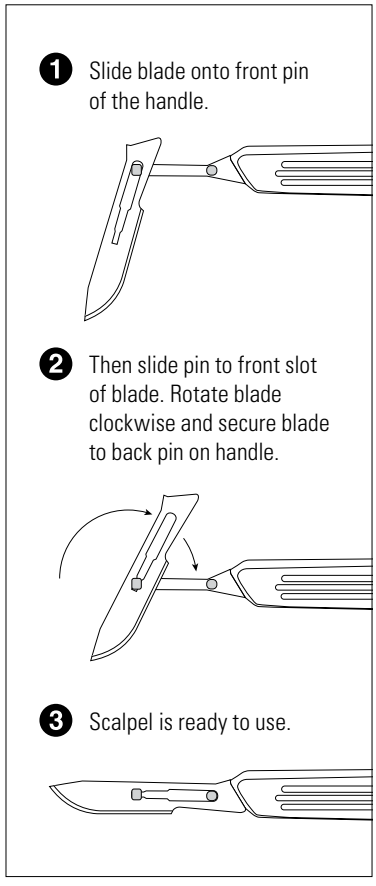
#3
12 cm

No. 10003-12

MOST POPULAR

Secure Scalpel Handle #3

A safety lock holds the blade securely, and allows simple and safe blade attachment and removal.



#3
12 cm

No. 10003-13

Blades for #3 and #7 Scalpel Handles

The alloy used has a high carbon content which provides a longer lasting edge. Blades come individually wrapped. **Non-sterile.**

Box of 100 blades
No. 10010-00

Box of 100 blades
No. 10011-00

Box of 100 blades
No. 10012-00

Box of 100 blades
No. 10015-00

Short Scalpel Handle #7 Solid

#7 short
12 cm

No. 10007-12

Standard Scalpel Handle #7 Solid

#7 long
16.5 cm

No. 10007-16

Scalpel Blade Remover

For safe removal of scalpel blades, simply insert scalpel with blade into the Scalpel Blade Remover and press the sides together. This will dislodge the blade from handle and hold the blade securely for release.

6.5 cm

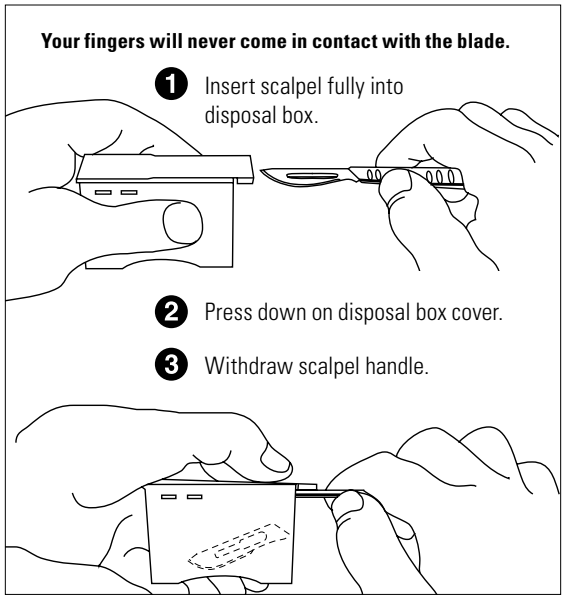
No. 10002-00

Scalpel Blade Removal and Disposal Box

This plastic device will remove used scalpel blades safely and retain them for safe disposal. Can be used for blades that fit the #3, #4, #7 and Gross Anatomy handles.

Capacity approximately 80 blades
7.5 x 5 x 2.5 cm

Carton of 10 boxes
No. 10002-50



Gross Anatomy Blade and Handle

7.5 cm

Box of 100 blades
No. 10060-00

13 cm

No. 10060-13

Disposable Safety Scalpels

Plastic handle #3 with stainless steel blades. The protective cartridge completely covers the blade for safe, fast, and easy disposal. **Single-use and non-sterile.**

Full blade exposure like a traditional scalpel

Safety cartridge locks into place

Designed with a convenient ruler for quick measurement

#10 scalpels
Pkg. of 10
No. 10000-10

#11 scalpels
Pkg. of 10
No. 10000-11

#15 scalpels
Pkg. of 10
No. 10000-15

Scalpel shown with safety cartridge closed and locked into place.

Plastic handle with stainless steel blades
14 cm

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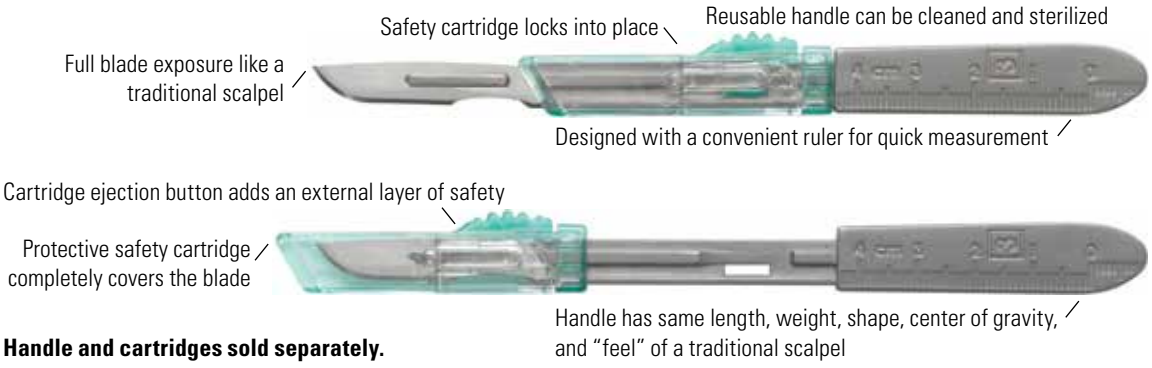
Safety Scalpel Handle #3 and Blade Cartridges

The Safety Scalpel Handle #3 is compatible with all Safety Scalpel Blades. The handle is reusable and made of Teflon coated stainless steel which provides a non-stick surface. The Blade Cartridges are color-coded with clear windows for easy identification. The protective cartridge completely covers the blade for safe, fast, and easy disposal. **Handle is reusable and autoclavable. Blades are single-use and non-sterile.**



Handle and cartridges sold separately.

Safety Scalpel Handle #3

Teflon coated stainless steel
12.5 cm

No. 10006-12

Safety Scalpel Blade Cartridges

#10 blades
Pkg. of 10
No. 10010-10

#11 blades
Pkg. of 10
No. 10011-10

#15 blades
Pkg. of 10
No. 10015-10

Scalpel blade shown with safety cartridge closed and not attached to handle.

Safety Scalpel Blade Cartridges shown open and attached to handle.
Handle and cartridges sold separately.

Forceps & Hemostats

Dumont	Pages	63 – 72
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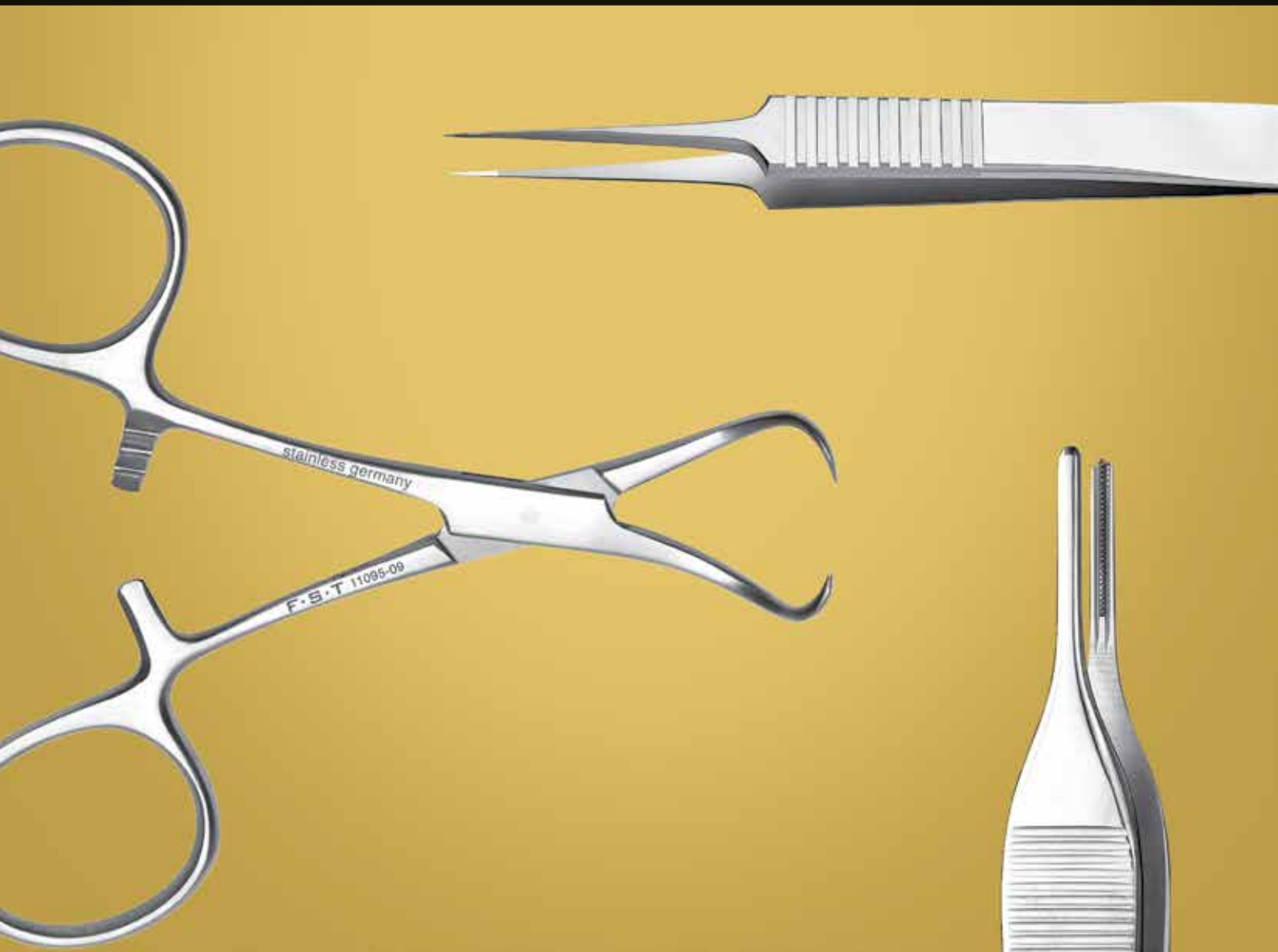
See page 189 for alloy and additional information.



Dumont #5SF

The finest tips ever produced by Dumont.

Super fine tip
0.025 x 0.005 mm
Inox
11 cm

No. 11252-00

Dumont #5 Fine Tips

Finished under magnification and polished on the inside, the tips close flat to 3 mm and are less likely to open under excess pressure.

Biology tip
0.05 x 0.01 mm
Inox
11 cm

No. 11254-20

Dumont #5 Ceramic Coated

These forceps are non-reflective. The scratch and corrosion resistant coating guarantees durability.

Biology tip
0.05 x 0.01 mm
Ceramic coated inox
11 cm

No. 11252-50

Dumont #5CO

These forceps have been honed down to make this the lightest and most precise Dumont forceps available.

Biology tip
0.05 x 0.01 mm
Dumostar
11 cm

No. 11295-20

For information on Dumont alloys and tip styles, see page 189.

Dumont Micro-Blunted, Atraumatic Tipped Forceps

The sides of these forceps are distinctively ribbed to provide a better holding surface for maximum control of the instrument. The shanks are arched toward each other to transmit more holding strength to the points. The smooth inside surfaces at the tips will close flat to 5 mm with gentle pressure, increasing the total holding area considerably. The microscopically matched tips are gently blunted to prevent tissue puncture and are recommended as micro needle holders.

Straight
0.10 x 0.06 mm
Inox
11 cm

Medical #5
No. 11253-20

Off-center
0.13 x 0.08 mm
Inox
11.5 cm

Medical #5A
No. 11253-21

Short curve
0.17 x 0.10 mm
Inox
12 cm

Medical #7S
No. 11273-22

Curved
0.17 x 0.10 mm
Inox
11.5 cm

Medical #7
No. 11273-20

Angled 45°
0.10 x 0.06 mm
Inox
11 cm

Medical #5/45
No. 11253-25

Angled 90°
0.10 x 0.06 mm
Inox
11 cm

Medical #5/90
No. 11253-29

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Dumont #55

Bevelled, like #5 but with extra light and fine shanks.

Biology tip
0.05 x 0.02 mm
11 cm

Inox
MOST POPULAR
No. 11255-20

Dumostar
No. 11295-51

Dumont #5
Mirror Finish Forceps

The last 5 mm on the inside of the tips are highly polished to help prevent tissue from sticking. Ideal for embryos, nerves, or any other adhesive tissue.

Standard tip	Biology tip
0.10 x 0.06 mm	0.05 x 0.02 mm
Inox	Inox
11 cm	11 cm
No. 11251-23	**No. 11252-23**

For information on Dumont alloys and tip styles, see page 189.

Dumont #5

These are the most widely used Dumont forceps. Bevelled, very fine shanks for best visibility.

MOST POPULAR

Standard tip	Biology tip
0.10 x 0.06 mm	0.05 x 0.02 mm
11 cm	11 cm
Inox	Inox
MOST POPULAR **No. 11251-20**	**No. 11252-20** MOST POPULAR
Dumoxel	Dumoxel
No. 11251-30	**No. 11252-30**
Dumostar	Dumostar
No. 11295-00	**No. 11295-10**
Carbon	·TITANIUM·
0.08 x 0.04 mm	**No. 11252-40**
Not autoclavable	
No. 11251-10	

Dumont WA #5

These newly designed forceps offer improved stability with an ergonomic body that allows the forceps to fit more comfortably in your hand. A domed end with no soldering grooves allows the forceps to be thoroughly and easily cleaned, preventing biofilm residues.

Side View

Standard tip
0.10 x 0.06 mm
Inox
12 cm

No. 11251-21

Biology tip
0.05 x 0.02 mm
Inox
12 cm

No. 11252-21

For information on Dumont alloys and tip styles, see page 189.

Dumont #5XL

Standard tip
0.10 x 0.06 mm
Inox
15 cm

No. 11253-10

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Dumont #L5

Slide sleeve keeps tips together so specimens may be securely held and retained. Slide may be locked in place so that forceps can be used in regular fashion. **Autoclavable.**

Standard tip
0.10 x 0.06 mm
Inox
11 cm

No. 11253-27

Dumont #5 Teflon® Coated

These antimagnetic forceps are ideal for use in cryogenic environments and for EM samples.

Standard tip
0.10 x 0.06 mm
Teflon coated inox
11 cm

No. 11626-11

Dumont #5/45

45° tips for improved visibility and control.

MOST POPULAR

Standard tip
0.10 x 0.06 mm
Dumoxel
11 cm

No. 11251-35

Dumont #5/45 Cover Slip Forceps

Designed to pick up cover slips out of multi-well plates. The tip width is squared for a better grip.

400%

1 mm from tip to bend
Upper tip: 0.10 x 0.08 mm
Lower tip: 0.10 x 0.02 mm
Dumoxel
11.5 cm

No. 11251-33

Dumont #3

Tapered and
sturdy shanks.

Standard tip
0.17 x 0.10 mm
12 cm

Dumoxel
No. 11231-30

Dumostar
No. 11293-00

Dumont #3c

Standard tip
0.17 x 0.10 mm
Inox
11 cm

No. 11231-20

Dumont #6

Sharply angled tips for
access to difficult areas.

Standard tip
0.17 x 0.10 mm
Inox
11.5 cm

No. 11260-20

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Dumont #7
Fine Tips

Finished under magnification and polished on the inside, the tips close flat to 3 mm and therefore less likely to open under excess pressure.

Biology tip
0.07 x 0.03 mm
Inox
11 cm

No. 11274-20

For information on Dumont alloys and tip styles, see page 189.

Dumont #7

Standard tip
0.17 x 0.10 mm
11.5 cm

Dumoxel
No. 11271-30

Dumostar
No. 11297-00

Biology tip
0.07 x 0.04 mm
11.5 cm

Dumoxel
No. 11272-30

Dumostar
No. 11297-10

·TITANIUM·

No. 11272-40

Dumont #7
Ceramic Coated

Biology tip
0.07 x 0.04 mm
Ceramic coated inox
11 cm

No. 11272-50

Dumont #7B

Standard tip
Serrated
0.17 x 0.10 mm
Inox
11 cm

No. 11270-20

Dumont #4

Similar to #5, but with broader shanks.

Standard tip
0.13 x 0.08 mm
Dumoxel
11 cm

No. 11241-30

Biology tip
0.06 x 0.04 mm
Dumoxel
11 cm

No. 11242-40

Dumostar
No. 11294-00

Dumont #2
Laminectomy Forceps

These forceps can be used to break off delicate bone during mouse laminectomies, as well as fine skull bone removal.

0.40 x 0.02 mm
Inox
12 cm

No. 11223-20

Dumont #2AP
Epoxy Coated

Provides good insulation for up to 220 AC voltage work and highly impervious to chemical solutions. Frozen or super cold sections will not adhere to the gripping surfaces.

Tip width: 1.5 mm
Epoxy coated Inox
12 cm

No. 11220-21

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Dumont AA

0.4 x 0.2 mm
Inox
12.5 cm

Pkg. of 12 forceps
No. 11210-20

Dumont AA Epoxy Coated

Slip-proof acid and electric shock resistant epoxy coating covering 17.5 mm from the tips.

0.4 x 0.2 mm
Epoxy coated inox
12.5 cm

Pkg. of 12 forceps
No. 11210-10

Sold only by the dozen. Not sold individually.

For information on Dumont alloys and tip styles, see page 189.

Dumont SS

The tips are smooth on the inside for a gentle grip. Applying full strength will not separate tips and a strong hold on the smallest specimen is ensured.

Standard tip
0.20 x 0.12 mm
Inox
13.5 cm

No. 11203-23

Biology tip
0.10 x 0.06 mm
Dumoxel
13.5 cm

No. 11200-33

Angled 45°

No. 11203-25

Dumont Mini Forceps

0.12 x 0.07 mm	0.14 x 0.06 mm	0.09 x 0.05 mm
Inox	Inox	Inox
7 cm	7 cm	8.2 cm
Style 3	Style 4	Style 5
No. 11200-10	**No. 11200-12**	**No. 11200-14**

Fine Forceps Repair Kit

Realign and repair fine forceps with this convenient kit. Bent forceps tips can be restraightened with the chain nose pliers. The sharpening stone has two grooves,1.6 mm and 0.8 mm, to assist in resharpening the forceps tips. O-rings clamp the forceps shut to ensure that both shanks are equally aligned and sharpened. Instrument oil assists in producing a smooth sharp edge. Detailed instructions are included.

Kit includes:

- 1 Sharpening stone for fine forceps with ten O-rings (No. 29008-22)
- 1 Instrument oil, 50 ml bottle (No. 29055-00)
- 1 Chain nose pliers

No. 29000-00 MOST POPULAR

O-Rings for Forceps

These rubber O-rings fit our Dumont forceps and keep them closed with variable degrees of pressure on the tips.

Pkg. of 10
No. 11200-00

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Fine Forceps Mirror Finish

The last 5 mm on the inside of the tips are highly polished to help prevent tissue from sticking. Ideal for embryos, nerves, or other adhesive tissue.

0.10 x 0.06 mm
11 cm

No. 11412-11

0.05 x 0.02 mm
11 cm

No. 11413-11

Fine Forceps Broad Shanks

Straight forceps with sturdy coarse tips.

0.2 x 0.12 mm
12 cm

No. 11445-12

Fine Forceps Self-Closing

Ideal for lifting and holding EM grids. Consistent pressure at tips. Correctly tensioned "cross-over" shanks come to a microscopically matched point.

0.08 x 0.04 mm
11.5 cm

No. 11480-11

NEW ITEM

0.10 x 0.06 mm
11 cm

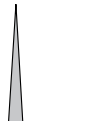
No. 11485-11

NEW ITEM

0.20 x 0.12 mm
11.5 cm

No. 11487-11

These forceps have the most finely executed points available. They are extremely light, superbly balanced, and have a gentle spring action. The shanks are specially designed with an arch which ensures maximum force to the tips. The tips close flat for 6 mm from the points to give a large holding area. The tips have been expertly finished under magnification.



Straight
11 cm

Moria MC40
No. 11370-40

Curved
11 cm

Moria MC40/B
No. 11370-42

Straight
13 cm

Moria 9980
No. 11399-80

Curved
13 cm

Moria 9987
No. 11399-87

Delicate Moria Forceps

Balanced with gentle spring action and tips that are perfectly matched.

Tip width: 0.5 mm
Blunt
10 cm

Smooth
Moria MC32/B
No. 11373-22

Smooth
Moria MC31/B
No. 11373-12

Microserrated
Moria MC32
No. 11370-32

Microserrated
Moria MC31
No. 11370-31

SuperGrip Forceps

The tips are processed with MicroCrystals®, a method developed by S&T® to infuse tungsten carbide on stainless steel. The formation of this ultra-fine coating guarantees atraumatic handling of tissue while improving the grip dramatically. The recommended use is where forceps are utilized as needle holders or when slippery tissues might be encountered.

S&T®

0.3 x 0.25 mm
11 cm

The gripping surface is similar to a match head.

S&T®

0.3 x 0.25 mm
11 cm

Straight

No. 00108-11

Angled 45°

No. 00109-11

Straight

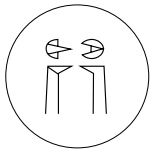
No. 00632-11

Angled 45°

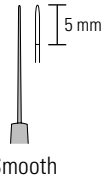
No. 00649-11

Bonn

The 1x2 forceps are the finest of their kind available.

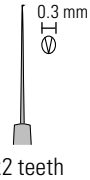


20x magnification



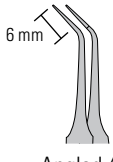
Smooth
Tip width: 0.3 mm
Tip platform: 5 mm
7 cm

No. 11083-07



1x2 teeth
Tip width: 0.3 mm
Teeth width: 0.1 mm
7 cm

No. 11084-07

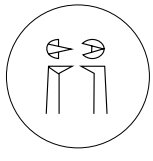


Angled 45°
Tip width: 0.4 mm
Platform
9 cm

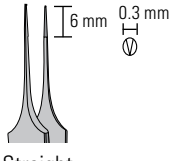
No. 11063-07

Mirror Finish Suture Tying Forceps

A unique tip style fusing a suture tying platform and a 1x2 teeth tip for tissue manipulation.



20x magnification



Straight
Tip width: 0.3 mm
Platform with 1x2 teeth
9 cm

No. 11090-09

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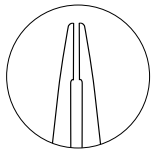
Suture Tying Forceps

The platform tips close flat. This ensures a reliable grip on sutures.

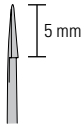


Tip diameter: 0.3 mm
Tying platform: 6 mm
13.5 cm

No. 00272-13

Suture Tying Forceps

The platform tips close flat. This ensures a reliable grip on sutures.

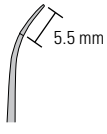


Tip diameter: 0.5 mm
Tying platform: 5 mm
10 cm

No. 18025-10

Round Handled Suture Tying Forceps

Round handles allow easy fingertip adjustments.

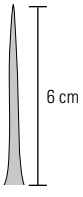


Tip diameter: 0.35 mm
Tying platform: 5.5 mm
10.5 cm

No. 18026-10

Vial Forceps

Tips taper for 6 cm allowing easy access to specimens in vials.



Tip diameter: 0.5 mm
15 cm

No. 11006-15

EVO Forceps

An evolutionary series of ergonomic instruments that are lighter than titanium but still have all the benefits of stainless steel. The fully fenestrated spring body is designed with a stability rod to provide balance in your hand.

Tip diameter: 0.5 mm
15 cm

Straight

No. 11800-00

Curved

No. 11800-01

Vetro Grasping Forceps

Serrated
Tip diameter: 0.7 mm
14 cm

No. 11900-14

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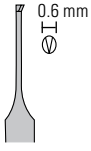
Tip width: 0.6 mm
7 cm

Straight
Serrated

No. 11064-07

Curved
Serrated

No. 11065-07



Straight
1x2 teeth

No. 11066-07

Curved
1x2 teeth

No. 11067-07

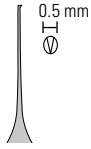
Bishop-Harman

Extra light, fenestrated handles ensure a good grip.

Tip width: 0.5 mm
8.5 cm

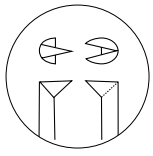
Serrated

No. 11069-08



1x2 teeth

No. 11070-08



10x magnification

Octagon Forceps

The octagon shaped grip provides a particularly secure finger hold.

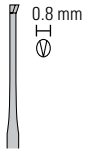
Tip width: 0.8 mm
9.5 cm

Straight
Serrated

No. 11040-08

Curved
Serrated

No. 11041-08



Straight
1x2 teeth

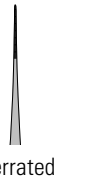
No. 11042-08

Curved
1x2 teeth

No. 11043-08

Extra Fine Graefe Forceps

Tip width: 0.5 mm
10 cm



Serrated
No. 11150-10

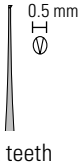
Serrated
No. 11151-10

Serrated
No. 11152-10

Smooth
No. 11158-10

Smooth
No. 11159-10

Smooth
No. 11160-10



1x2 teeth
No. 11153-10

1x2 teeth
No. 11154-10

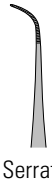
1x2 teeth
No. 11155-10

Graefe Forceps

Tip width: See below
10 cm

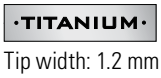
Serrated
Tip width: 0.8 mm
No. 11050-10

Serrated
Tip width: 0.8 mm
No. 11051-10

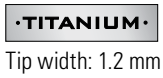


Serrated
Tip width: 0.8 mm
No. 11052-10

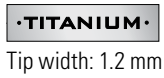
Serrated
Tip width: 0.8 mm
No. 11049-10



Tip width: 1.2 mm
No. 11650-10

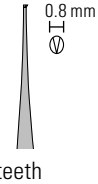


Tip width: 1.2 mm
No. 11651-10



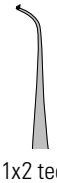
Tip width: 1.2 mm
No. 11652-10

For more information see page 183.



1x2 teeth
Tip width: 0.8 mm
No. 11053-10

1x2 teeth
Tip width: 0.8 mm
No. 11054-10

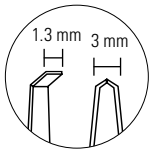


1x2 teeth
Tip width: 0.8 mm
No. 11055-10

Slide lock
Smooth
Tip width: 1 mm
11 cm

No. 11062-10

The tips of these forceps arch toward each other, closing flat. Exceptional gripping power is possible with minimal damage to tissue. A limit pin prevents excessive applied pressure.

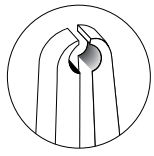


Tip thickness: 0.2 mm
10 cm

No. 11071-10

Pierse Fixation Forceps

For exceptional gripping power with no damage to sclera, vascular sheath and epineurium.



Tissue retention hole of 0.3 mm behind tips.

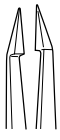
Straight
0.1 x 0.4 mm
13 cm

No. 18155-13

Plastic Forceps

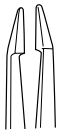
These forceps are non-magnetic, acid resistant and able to withstand temperatures up to 240°C (464°F). Tips do not spread under pressure.

Acetyl
11.5 cm
Pkg. of 10 forceps



Sharp straight
0.40 x 0.25 mm

No. 11700-00



Blunt straight
1.5 x 0.40 mm

No. 11700-03

Sharp curved
0.30 x 0.20 mm

No. 11700-01

Blunt curved
1.5 x 0.40 mm

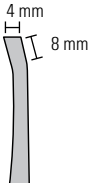
No. 11700-04

Sharp 45°
0.30 x 0.20 mm

No. 11700-02

Cross Action Forceps

These tissue transport forceps have a gentle action.

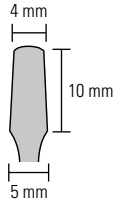


Cross serrated
Tip width: 4 mm
Tip depth: 8 mm
10 cm

No. 11075-00

Cover Glass Forceps

10.5 cm



Straight

No. 11074-02

Angled

No. 11073-10

Ring Forceps

For transport of tissue and organs. With limit screw to prevent excessive applied pressure.

ID: 1 mm
OD: 1.5 mm
8.5 cm

No. 11101-09

ID: 2.2 mm
OD: 3 mm
9 cm

No. 11103-09

ID: 4.8 mm
OD: 6 mm
9 cm

No. 11106-09

Circle Forceps

Cupped forceps for atraumatic gripping of organs and tissues.

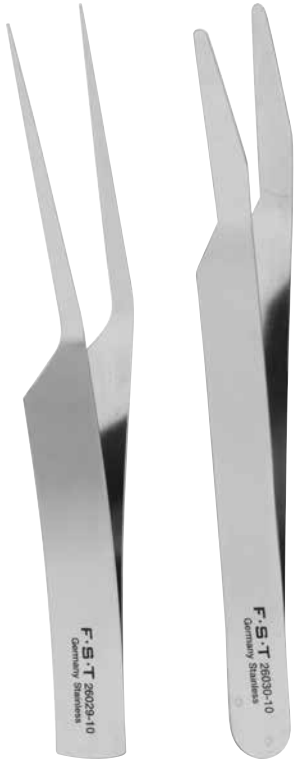
NEW ITEM

Tip diameter: 0.7 mm
11.5 cm

No. 11072-11

Live Insect Handling Forceps

Very delicate.



Narrow
10 cm

No. 26029-10

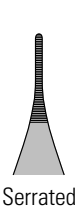
Wide
10 cm

No. 26030-10

Micro-Adson

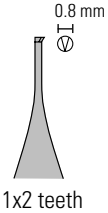
Our most delicate version of the popular Adson forceps.

Tip width: 0.8 mm
12 cm



Serrated

No. 11018-12



1x2 teeth

No. 11019-12

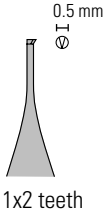
Micro-Adson with Fenestrated Handle

Our delicate Micro-Adson forceps, with five windows to aid in stability and easy finger adjustments.

12 cm

Serrated

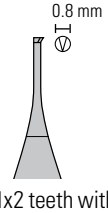
Tip width: 0.8 mm
No. 11020-12



1x2 teeth

Tip width: 0.5 mm
No. 11032-12

NEW ITEM



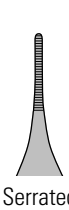
1x2 teeth with platform

Tip width: 0.8 mm
No. 11022-12

Adson

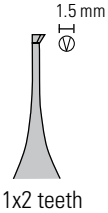
Wide, strong grip with narrow tips.

Tip width: 1.5 mm
12 cm



Serrated

No. 11006-12



1x2 teeth

No. 11027-12

Cross serrated tungsten carbide inlaid tip

No. 11506-12

TUNGSTEN CARBIDE

For more information see page 183.

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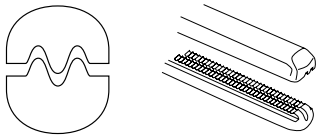
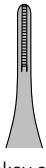
Adson DeBakey



Atraumatic DeBakey Serrations

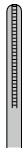
This tooth pattern, as shown, consists of one row of atraumatic teeth meshed with two opposite rows of atraumatic teeth.

These two forceps are ideal for gentle, atraumatic gripping of vessels, tissue and other delicate structures.



DeBakey serrations
Tip width: 1.5 mm
12.5 cm

No. 11617-12



DeBakey serrations
Tip width: 1.5 mm
15 cm

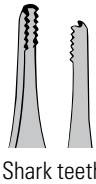
No. 11616-15

Adson-Graefe

Fine sharp teeth
Tip width: 4.5 mm
12.5 cm

No. 11030-12

Adson-Brown



Shark teeth
Tip width: 1.4 mm
12 cm

No. 11627-12

Semken

Slim pattern with long, narrow shanks and gentle spring action.

Straight
Serrated

Tip width (mm)	Length (cm)	Item	Price
1.3	13	No. 11008-13	
1.5	15	No. 11008-15	
·TITANIUM·			
1.5	15	No. 11608-15	

Curved
Serrated

Tip width (mm)	Length (cm)	Item	Price
1.3	13	No. 11009-13	
1.5	15	No. 11009-15	

·TITANIUM· For more information see page 183.

Narrow Pattern

Lighter spring action than standard pattern for grasping more delicate tissue.

Straight
Serrated

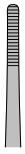
Tip width (mm)	Length (cm)	Item	Price
2	12	No. 11002-12	
2.15	13	No. 11002-13	
2.25	14.5	No. 11002-14	
2.35	16	No. 11002-16	
2.4	18	No. 11002-18	
2.75	20	No. 11002-20	
3.2	25	No. 11002-25	
·TITANIUM·			
2.25	14.5	No. 11602-14	

Curved
Serrated

Tip width (mm)	Length (cm)	Item	Price
2	12	No. 11003-12	
2.15	13	No. 11003-13	
2.25	14.5	No. 11003-14	
2.35	16	No. 11003-16	
2.4	18	No. 11003-18	
2.75	20	No. 11003-20	

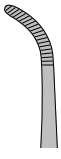
Standard Pattern

Broad pattern with strong spring action.



Straight
Serrated

Tip width (mm)	Length (cm)	Item	Price
2.5	12	No. 11000-12	
2.8	13	No. 11000-13	
3.25	14.5	No. 11000-14	
3.3	16	No. 11000-16	
3.7	18	No. 11000-18	
3.75	20	No. 11000-20	
3.9	25	No. 11000-25	
4	30	No. 11000-30	



Curved
Serrated

Tip width (mm)	Length (cm)	Item	Price
2.5	12	No. 11001-12	
2.8	13	No. 11001-13	
3.25	14.5	No. 11001-14	
3.3	16	No. 11001-16	
3.7	18	No. 11001-18	
3.75	20	No. 11001-20	

Mouse Handling Forceps

Long handles make picking up small rodents easy and help prevent bites.

Forceps with serrated silicone tips
Gripping surface: 15 x 20 mm
21 cm

No. 11036-20

Replacement silicone tips

Pkg of 2 tips
No. 11036-90

Slim 1x2 teeth

10 cm
No. 11023-10

12 cm
No. 11023-12

14.5 cm
No. 11023-14

15.5 cm
No. 11023-15

1x2 teeth

12 cm
No. 11021-12

14.5 cm
No. 11021-14

15.5 cm
No. 11021-15

2x3 teeth

14.5 cm
No. 11022-14

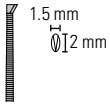
15.5 cm
No. 11022-15

Used with rongeur No. 16021-14 (page 36) in laminectomy to securely hold spinal column.

1x2 teeth

14 cm
No. 11029-14

Gillies

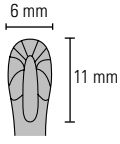


Serrated
1x2 teeth
15 cm

No. 11028-15

Russian

Special cupped pattern
for superior grip.

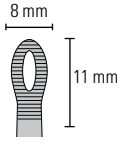


15 cm

No. 11026-15

Organ Holding Forceps

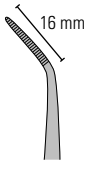
With limit screw to prevent
excessive applied pressure.



Serrated
14.5 cm

No. 11031-15

London Forceps



Angled
Serrated
16 cm

No. 11080-02

Titanium Forceps

·TITANIUM·

For more information
see page 183.

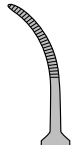
Straight
Serrated
16 cm

No. 11602-16

Gerald Forceps

Straight
Serrated
18 cm

No. 11014-18



Curved
Serrated
18 cm

No. 11015-18

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Taylor Forceps

Serrated and smooth versions available.

Straight
Serrated
17 cm

No. 11010-17

Curved
Serrated
17 cm

No. 11011-17

Straight
Smooth
17 cm

No. 11016-17

Curved
Smooth
17 cm

No. 11017-17

Potts-Smith Forceps

Straight
Serrated

18 cm
No. 11012-18

21 cm
No. 11012-21

25 cm
No. 11012-25

Curved
Serrated

18 cm
No. 11013-18

21 cm
No. 11013-21

Straight
1x2 teeth
18 cm

No. 11024-18

Curved
1x2 teeth
18 cm

No. 11025-18

Ultra Fine Hemostat

Tip width: 0.6 mm
Smooth
12 cm

Straight

No. 13020-12

Curved

No. 13021-12

Fine Hemostat

Tip width: 1 mm
Smooth
12 cm

Straight

No. 13006-12

Curved

No. 13007-12

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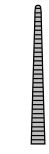
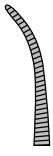
Micro-Mosquito

Tip width: 1.3 mm
Serrated
12 cm



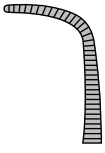
Straight

No. 13010-12



Curved

No. 13011-12



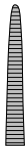
Angled 90°

No. 13012-12

Halsted-Mosquito

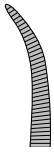
Tip width: 1.1 mm
Serrated
12.5 cm

Tip width: 1 mm
Serrated
Left handed
12.5 cm



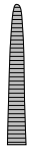
Straight

No. 13008-12



Curved

No. 13009-12



Straight

LEFT HANDED

No. 13108-12

Curved

LEFT HANDED

No. 13109-12

Crile

Tip width: 1.5 mm
Serrated
14 cm

Straight

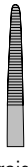
No. 13004-14

Curved

No. 13005-14

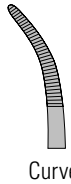
Kelly

Tip width: 1.5 mm
Serrated
14 cm



Straight

No. 13018-14



Curved

No. 13019-14

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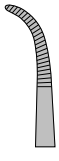
Baby-Mixter

Tip width: 1.3 mm
Serrated
14 cm

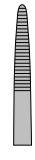


Curved

No. 13013-14

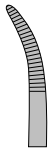
Providence-Hospital

Tip width: 1.5 mm
Serrated
14 cm



Straight

No. 13014-14

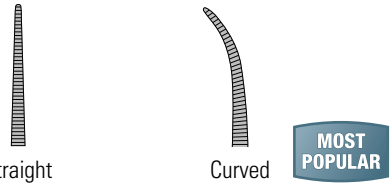


Curved

No. 13015-14

Hartman

Tip width: 1 mm
Serrated
10 cm



Straight

No. 13002-10

Curved

MOST POPULAR

No. 13003-10

Backhaus Towel Forceps

9 cm

No. 11095-09

13 cm

No. 11095-13

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Allis Forceps

Tissue and organ holding forceps.

4 mm

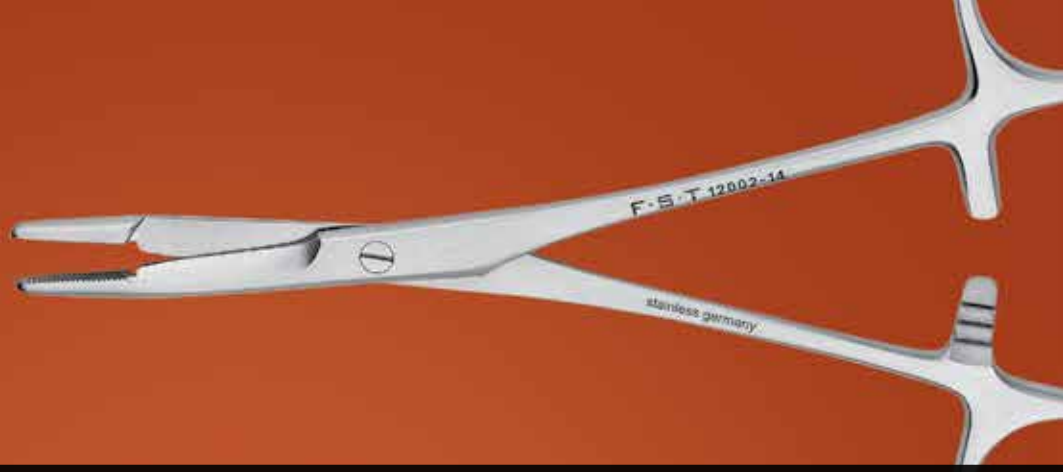
5x6 teeth
Tip width: 4 mm
15 cm

Allis
No. 11091-15

3 mm

4x5 teeth
Tip width: 3 mm
12 cm

Allis-Baby
No. 11092-12

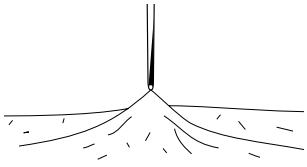


Probes, Needle Holders, Wound Closure, Retractors & Clamps

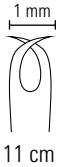
Probes & Hooks	Pages	99 – 103
Spatulae	Pages	102 – 105
Pins & Holders	Pages	106 – 107
Spoons	Page	108
Wound Closure	Pages	109 – 121
Retractors	Pages	122 – 129
Vascular Instruments	Pages	130 – 139

Double Pronged Pick

For peritoneum, pleura, endocardium, organ capsules and skin. Grasps and lifts skin, tissue and dura, etc.



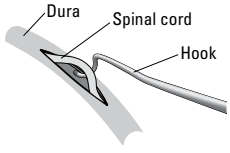
The tip consists of two very sharp, nearly horizontally opposed points. By applying gentle downward pressure and twisting slightly in a clockwise fashion, the points will embed themselves horizontally into fine membranes or skin, etc., so that it may be lifted upward. This instrument also has been used successfully when separating fine tissue from an underlying area that is not to be cut.



11 cm

No. 18067-11

Spinal Cord Hook



Shaped like a ligation aid and sized to isolate the spinal cord from the dura of adult mice and neonatal rats. The cord can then be cut with minimal damage to the dura.

250%

Tip diameter: 3 mm
12 cm

No. 10162-12

Bonn Micro Probes

Length: 13.5 cm

Actual size

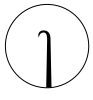
Straight
Tip diameter: 0.025 mm

No. 10030-13

Actual size

Angled 45°
Tip diameter: 0.025 mm

No. 10032-13



Actual size

Curved
Tip diameter: 0.025 mm

No. 10031-13

Actual size

Large curve
Tip diameter: 0.038 mm

No. 10033-13

Micro Points

Length: 15.5 cm

200%

Angled 90° short
Tip diameter: 0.05 mm

No. 10063-15

200%

Angled 90°
Tip diameter: 0.02 mm

No. 10065-15

200%

Angled 45°
Tip diameter: 0.038 mm

No. 10066-15

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Probes and Explorers

Length: 15.5 cm

Actual size

Straight
Tip diameter: 0.25 mm

No. 10140-01 MOST POPULAR

Actual size

Short angle
Tip diameter: 0.12 mm

No. 10140-04

Actual size

Angled
Tip diameter: 0.15 mm

No. 10140-02

Actual size

Long angled
Tip diameter: 0.15 mm

No. 10140-03

Micro Hooks

Length: See below

175%

Short round hook
Tip diameter: 0.05 mm
Length: 13 cm

No. 10064-14

175%

Sharp hook
Tip diameter: 0.075 mm
Length: 12 cm

No. 10061-12

175%

Blunt hook
Tip diameter: 0.30 mm
Length: 12 cm

No. 10062-12

Titanium Micro Point, Y-Hook, and Spatula

These instruments are lightweight, color coded for easy identification, have an ergonomic design and a non-reflective surface.

Micro Point

·TITANIUM·

For more information see page 183.

650%

Angled 45°
Tip diameter: 0.4 mm
Titanium
12.5 cm

No. 10165-11

Y-Hook

·TITANIUM·

For more information see page 183.

700%

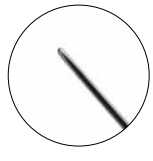
Angled 45°
Tip width: 0.5 mm
Titanium
12.5 cm

No. 10166-11

Micro Spatula

·TITANIUM·

For more information see page 183.



700%

Angled 30°
Tip width: 0.6 mm
Tip thickness: 0.25 mm
Titanium
12.5 cm

No. 10167-11

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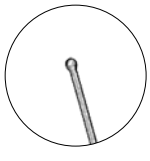
Vessel Dilating Probe



Tip diameter: 0.6 mm
12.5 cm

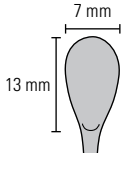
No. 10160-13

Gross Anatomy Probe

Tip diameter: 1.2 mm
15 cm

No. 10088-15

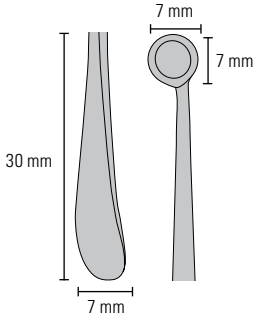
Combination Probe and Spatula



14 cm

No. 10090-13

Combination Spoon and Spatula



NEW ITEM

17.5 cm

No. 10090-17

Micro Spatula

Tip width: 1 mm
Tip thickness: 0.25 mm
11 cm

No. 10089-11

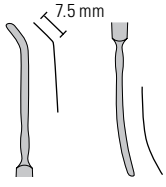
Mirror Finish Micro Spatula

Mirror finished to provide a non-stick spatula.

Tip width: 0.8 mm
Tip thickness: 0.25 mm
12 cm

No. 10087-12

Double-Ended Micro Spatula



Tip width: 2 mm
Tip thickness: 0.3 mm
13 cm

No. 10091-12

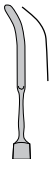
Iris Spatulae

Tip width: 3 mm
Tip thickness: 0.4 mm
13 cm

No. 10094-13

Tip width: 1.7 mm
Tip thickness: 0.3 mm
13 cm

No. 10093-13



Tip width: 1.8 mm
Tip thickness: 0.3 mm
12 cm

No. 10092-12

Mini Hippocampal Dissecting Tool

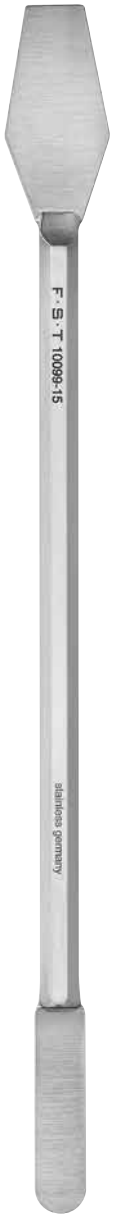
The instrument ends are malleable to allow you to adjust their shape to the correct angle for optimal positioning.

14.5 cm

No. 10099-12

Hippocampal Dissecting Tool

The instrument ends are malleable to allow you to adjust their shape to the correct angle for optimal positioning.



16 cm

No. 10099-15

Pin Holder

Light weight.

Nickel-plated chuck
Aluminum handle
Jaw opening: 0–1 mm
17 cm

No. 26018-17

Pin Holder

MOST POPULAR

Nickel-plated
Jaw opening: 0–1 mm
12 cm

No. 26016-12

Self Holding Pin and Bone Screw Forceps

Designed with a serrated tip and grooved cup for a stable and secure grip, these forceps hold pins and screws allowing precise placement at your target area. They are compatible with all Fine Science Tools insect pins, minutien pins and bone screws.

Polished stainless steel
14 cm

No. 26100-00

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Insert Pins

All insert pins fit any of our pin holders.
Pins are antimagnetic and acid resistant.

Stainless steel
5 cm

No. 26007-01 -02 -03 -04 -05

Black Anodized Minutien Pins

These high quality pins are black for best visibility under high magnification and bright light.

Tip diameter: 0.0175 mm
Rod diameter: 0.15 mm
10 mm

Box of 500 pins
No. 26002-15

Stainless Steel Minutien Pins

The thinnest and finest pins available.

Tip diameter: 0.0125 mm
Rod diameter: 0.1 mm
10 mm

Box of 500 pins
No. 26002-10

MOST POPULAR

Tip diameter: 0.02 mm
Rod diameter: 0.2 mm
10 mm

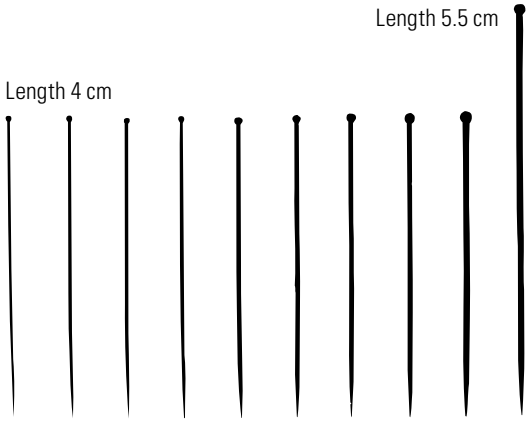
Box of 500 pins
No. 26002-20

PINS

Black Anodized Insect Pins

Nylon heads
Tip diameter: 0.03 mm

Pkg. of 100 pins



Size	000	00	0	1	2	3	4	5	6	7
Rod diameter (mm)	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70
No. 26000	**-25**	**-30**	**-35**	**-40**	**-45**	**-50**	**-55**	**-60**	**-65**	**-70**

Stainless Steel Insect Pins

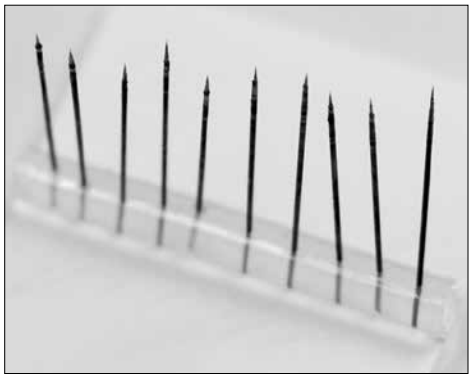
Nylon heads
Tip diameter: 0.03 mm

Pkg. of 100 pins

Size	000	00	0	1	2	3	4	5	6	7
Rod diameter (mm)	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70
No. 26001	**-25**	**-30**	**-35**	**-40**	**-45**	**-50**	**-55**	**-60**	**-65**	**-70**

Etched Tungsten Micro Needles

These tungsten micro needles are drawn to a 1 micron tip and three different rod diameters are offered. Each provides lateral stability as well as minimal spring action during manipulation. The micro needles can be used with our pin holders shown on page 106.



Tip diameter: 1 µm (0.001 mm)
12 mm

Box of 10 needles

Rod diameter (mm)	Item	Price
0.125	No. 10130-05	
0.25	No. 10130-10	
0.5	No. 10130-20	

Spoon

Diameter: 8 mm
Depth: 2 mm
12.5 cm

Moria 1121B
No. 10321-08

Mini Perforated Spoon

Most commonly used to take embryos out of solution and handling very small organs.

Perforations are
0.8 mm in diameter.

Diameter: 8 mm
Depth: 1 mm
10 cm

Moria MC 17C
No. 10370-19

Perforated Spoon

Most commonly used to take embryos out of solution and handling very small organs.

Perforations are
0.9 mm in diameter.

MOST POPULAR

Diameter: 15 mm
Depth: 3 mm
14.5 cm

Moria MC 17 BIS
No. 10370-18

Diameter: 20 mm
Depth: 5 mm
14.5 cm

Moria MC 17
No. 10370-17

Mirror Finish Cutting Spoon

Non stick cutting spoon.

Diameter: 4.5 mm
Depth: 0.15 mm
13 cm

No. 10360-13

EVO Needle Holder

Lighter than titanium but with all the benefits of stainless steel. The fully fenestrated spring body has a stability rod to provide balance in your hand.

Straight
15 cm

Without lock
No. 12800-00

Cautionary note: Never use a micro needle holder with needles that are too thick, as this can easily damage the fine jaws. Use only micro needles of less than 0.2 mm diameter (see page 116).

Castroviejo

Micro pattern, with slightly blunted tips.

Straight
9 cm

With lock
No. 12060-01

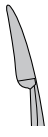
Without lock
No. 12060-02

Curved
9 cm

With lock
No. 12061-01

Without lock
No. 12061-02

Needle Holder with Suture Cutter



Curved
Cutting edge: 3.5 mm
14 cm

Without lock
No. 12075-14

Cautionary note: Never use a micro needle holder with needles that are too thick, as this can easily damage the fine jaws. Use only micro needles of less than 0.2 mm diameter (see page 116).

Round Handled Needle Holder

Round handles allow easy fingertip adjustments.

Straight
12.5 cm

With lock
No. 12075-12

Without lock
No. 12076-12

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Mathieu

Extra slim and narrow profile, with squeeze-lock.
Facilitates excellent wrist motion for suturing.

14 cm

With lock
No. 12010-14

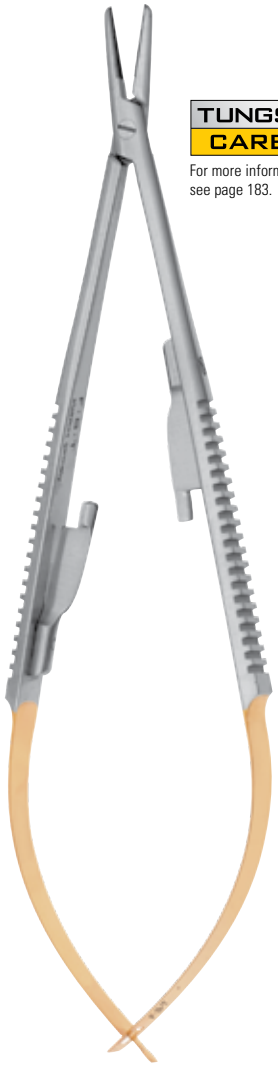
With tungsten carbide jaws
14 cm

With lock
No. 12510-14

TUNGSTEN CARBIDE

For more information see page 183.

Castroviejo with Tungsten Carbide Jaws



TUNGSTEN CARBIDE

For more information see page 183.

With tungsten carbide jaws
14 cm

With lock
No. 12565-14

Halsey

Smooth
13 cm

No. 12001-13

With tungsten carbide jaws
13 cm

TUNGSTEN CARBIDE

For more information see page 183.

No. 12501-13

Halsey with Tungsten Carbide Jaws

TUNGSTEN CARBIDE

For more information see page 183.

With tungsten carbide jaws
12.5 cm

MOST POPULAR

No. 12500-12

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Olsen-Hegar with Suture Cutter

10 mm cutting edge
1.5 mm jaw surface
12 cm

MOST POPULAR

No. 12002-12

LEFT HANDED

No. 12102-12

15 mm cutting edge
2 mm jaw surface
14 cm

No. 12002-14

Olsen-Hegar with Suture Cutter and Tungsten Carbide Jaws

TUNGSTEN CARBIDE

For more information see page 183.

With tungsten carbide jaws
10 mm cutting edge
1.5 mm jaw surface
12 cm

No. 12502-12

LEFT HANDED

No. 12512-12

With tungsten carbide jaws
15 mm cutting edge
2 mm jaw surface
14 cm

No. 12502-14

Crile-Wood

15 cm

No. 12003-15

With tungsten carbide jaws
15 cm

TUNGSTEN CARBIDE

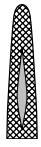
For more information see page 183.

No. 12503-15

LEFT HANDED

No. 12504-15

Mayo-Hegar



16 cm

No. 12004-16

18 cm

No. 12004-18

Slim Elongated Needle Holder with Tungsten Carbide Jaws

TUNGSTEN CARBIDE

For more information see page 183.

Side View

With tungsten carbide jaws
15 cm

No. 12005-15

Ryder Mini-Select Needle Holder

This needle holder has been uniquely fashioned with tungsten carbide dust tips, giving the clamping platform an extra secure grip.

TUNGSTEN CARBIDE

For more information see page 183.

With tungsten carbide dust tips
15 cm

No. 12505-15

Microsurgical Needles with Suture Thread Attached

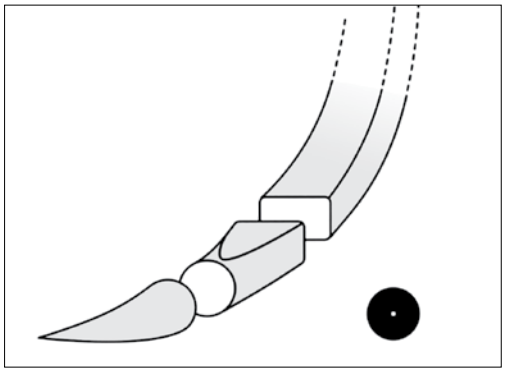
The combination of proprietary needle design technology and state-of-the-art manufacturing techniques has enabled S&T to provide a microsurgical needle that is unmatched in the industry. S&T microsurgical needles provide frictionless tissue penetration. They are inspected under the microscope at critical stages during the manufacturing process, and a multi-point final inspection of each suture and needle combination ensures a high quality product. The suture-to-needle attachment is tested to higher standards than the USP specifications.

Features:

- Needle and thread combination comprising of non-absorbable black nylon polyamide monofilament thread and stainless steel 3/8 circle needle. Nylon is suitable for closing ophthalmic, neurological and microvascular wounds.
- 3/8 circle precision taper point. Stainless steel needle honed under microscope by hand. Superfine round tip with flattened body to improve stability in needle holder.
  Easy penetration. Precise stitch placement.
- Grinding geometry and suture needle attachment are directed toward frictionless tissue penetration.
- Each needle suture combination is individually packed and sealed in a peel-open blister pack.

Sterile
Pkg. of 12 disposable units

400% of actual size



Standard taper point needle

No. 12051-11

No. 12051-10

No. 12051-09

No. 12051-08

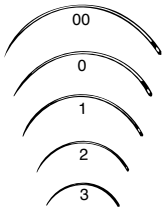
S&T®

Suture size	Suture length (cm)	Needle diameter (micron)	Needle diameter (mm)	Needle chord length (mm)	Circle	Arch (mm)	Item	Price
11/0	10	50	0.05	3	3/8	3.8	No. 12051-11	
10/0	10	70	0.07	3	3/8	3.8	No. 12051-10	
9/0	15	100	0.1	4	3/8	5.1	No. 12051-09	
8/0	15	140	0.14	5	3/8	6.4	No. 12051-08	

Suture Needles

Polished stainless steel
3/8 curved
Round with standard eye
Diameter 0.35 mm
Non-sterile

Pkg. of 12 needles



Size	Item	Price
00	No. 12050-20	
0	No. 12050-10	
1	No. 12050-01	
2	No. 12050-02	
3	No. 12050-03	

Silk Suture

Silk suture has a smooth flow through tissue while maintaining knot security.

Braided silk
Non-sterile

Size	Diameter (mm)	Spool length (m)	Item	Price
7/0	0.05	91	No. 18020-70	
6/0	0.08	23	No. 18020-60	
5/0	0.12	23	No. 18020-50	
4/0	0.17	23	No. 18020-40	
3/0	0.22	23	No. 18020-30	
2/0	0.32	23	No. 18020-20	
0	0.37	23	No. 18020-00	
1	0.45	23	No. 18020-01	
2	0.55	23	No. 18020-02	
3	0.65	23	No. 18020-03	

For Suture Tying Forceps, see pages 76 and 77.

Nylon Monofilament Suture

Nylon is known for its uniform diameter flexibility and outstanding consistent knot security.

Nylon monofilament
Non-sterile

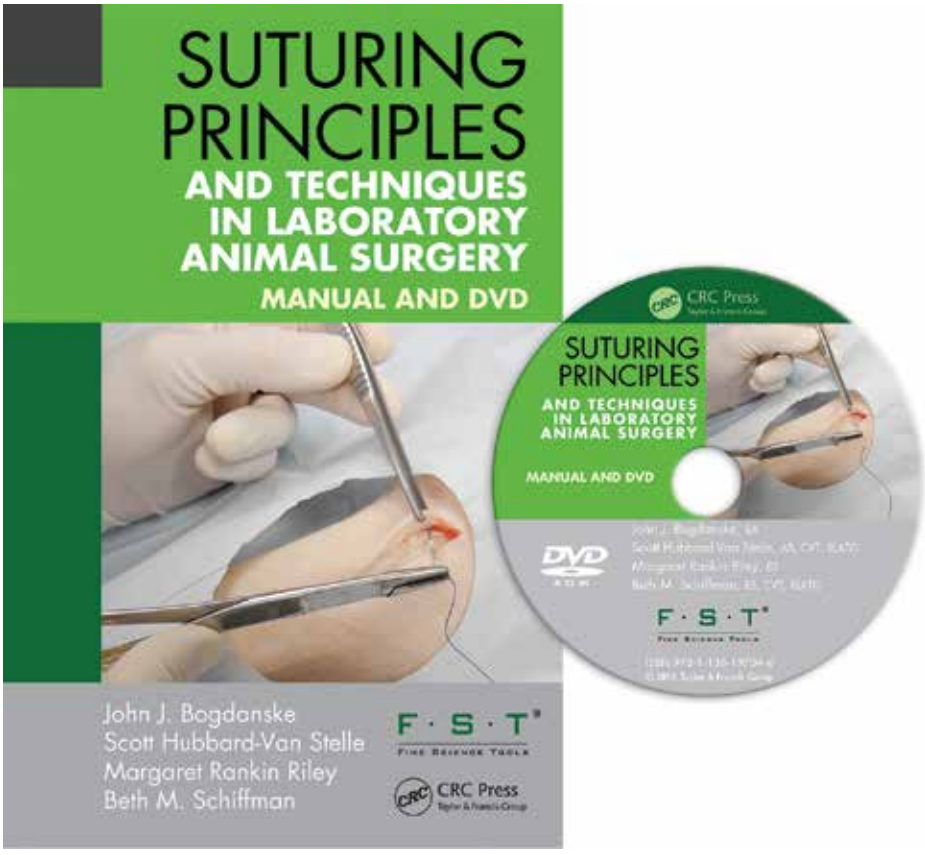
Size	Diameter (mm)	Spool length (m)	Item	Price
8/0	0.04	91	No. 18030-80	
7/0	0.05	91	No. 18030-70	
6/0	0.07	91	No. 18030-60	
5/0	0.10	91	No. 18030-50	
4/0	0.15	91	No. 18030-40	
3/0	0.20	91	No. 18030-30	

Suturing Principles and Techniques in Laboratory Animals

Introduces the basic principles, materials and surgical instruments required for suturing and wound closure used on animals. The manual provides descriptions and pictures portraying proper tissue handling and aseptic technique, correct hand placement and use of surgical instruments, proper needle placement on needle holders, and provides an in-depth explanation of various suture patterns and associated principles for proper knot tying during wound closure.

The DVD provides descriptive narrative and step-by-step video demonstrations for each of the suturing techniques.

Manual and DVD



Includes: Fine Science Tools Item Number Reference Page for all surgical instruments used in the manual.

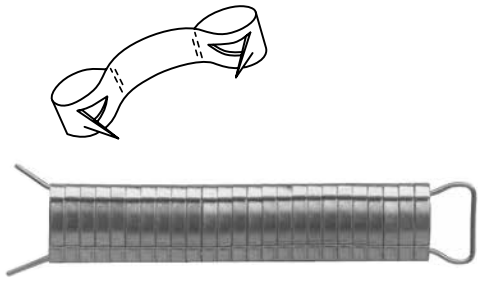
No. 23005-10

Michel Suture Clips

Anti-magnetic, acid-resistant stainless steel
Pkg. of 1,000 clips

Size (mm)	Item	Price
7.5 x 1.75	No. 12040-01	
11 x 2	No. 12040-02	
12 x 2.5	No. 12040-03	

Larger clip sizes also available.

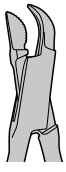


Applying Forceps

For all Michel suture clips
12.5 cm

No. 12018-12

Applying and Removing Instruments



For clip sizes 12040-02 and larger
Curved
13 cm

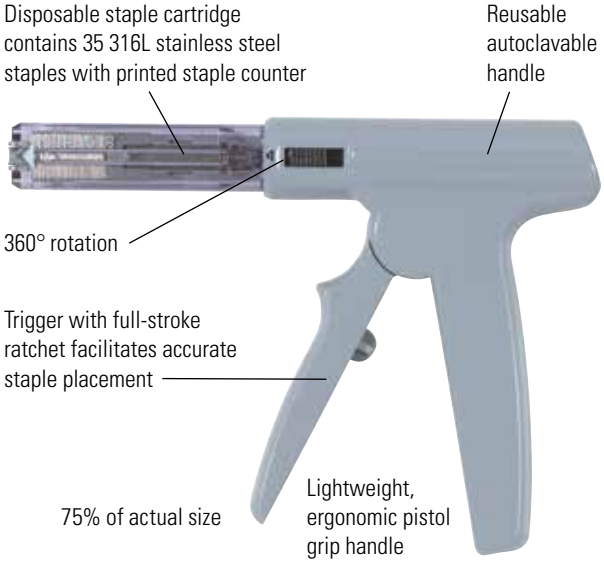
No. 12028-12

For clip size 12040-01 only
Angled
13 cm

No. 12029-12

Reloadable Skin Stapler with Rotating Head

The 360° degree swivel nose and unique design offers maximum visibility at the delivery point. The stainless steel staples are non-sterile and feature the patented "Twin Towers" staple design which make for quick and easy removal. The disposable staple cartridge includes a printed staple counter. **The handle is reusable and autoclavable. Staples are non-sterile. Components sold separately or as a kit.**



Surgical staple kit
- 1 Handle
- 1 Remover
- 12 Disposable staple cartridges

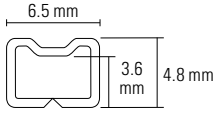
No. 12030-20

Single disposable cartridge
35 staples per cartridge
No. 12030-22

12 disposable cartridges
35 staples per cartridge
No. 12030-23

Handle
No. 12030-01

Staple Dimensions:



Staple, actual size:

Surgical Staple Remover

Compatible with Reloadable Skin Stapler with Rotating Head and Manipler® Skin Stapler.

75% of actual size

10 cm
No. 12030-04

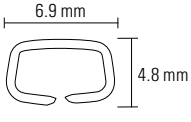
Manipler® Skin Stapler

Quality, slim, lightweight design with consistent actuation and staple count indicator. **Disposable, sterile, and not autoclavable.**

15 cm
35 staples per cartridge
No. 12035-00

75% of actual size

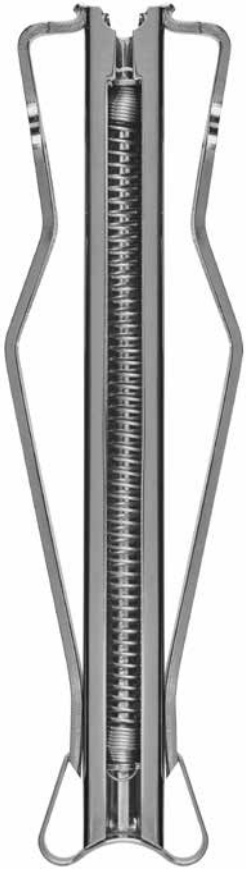
Staple Dimensions:



Staple, actual size:

AutoClip® System

The AutoClip® System is a safe, secure method of wound closure. Faster and easier than suture, this system is perfect when staples may be too thin to provide adequate closure. **Non-sterile and not autoclavable. Components sold separately or as a kit.**



Applier

Clips

Remover

AutoClip® Kit
- 1 Applier
- 9 mm clips (100)
- 1 Remover
- Storage case

No. 12020-00

AutoClip® applier
11.5 cm

No. 12020-09

AutoClip® 9 mm clips
Pkg. of 100 clips

No. 12022-09

AutoClip® remover
12.5 cm

No. 12023-00

Guthrie

Extra delicate pattern.

2 Pronged
Blunt
13 cm

No. 17021-13

2 Pronged
Blunt
13.5 cm

No. 17023-13

Blair

4 Pronged
Blunt
13.5 cm

No. 17022-13

Fomon

2 Pronged
2 mm Ball at each tip
17 cm

No. 17020-17

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Slide Retractor with Blades

Maximum spread: 1 cm
Atraumatic blades
2 cm

No. 17004-03

Mini-Goldstein

Maximum spread: 0.5 cm
3x3 Sharp teeth
2 cm

No. 17002-02

Mini-Colibri

Maximum spread: 1 cm
2 cm

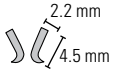
No. 17000-01

Slide Retractor with Teeth

Maximum spread: 1 cm
2x2 Blunt teeth
2 cm

No. 17005-03

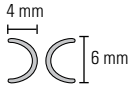
Goldstein



Maximum spread: 1.8 cm
3x3 Sharp teeth
3 cm

No. 17003-03

Colibri



Maximum spread: 1.5 cm

3 cm
No. 17000-03 MOST POPULAR

4 cm
No. 17000-04

Maximum spread: 1.2 cm

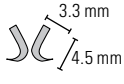
3 cm
No. 17000-02

Fine Adjustable Wire Retractor

Maximum spread: 3.5 cm
Thin, curved blades
5 cm

No. 17004-05

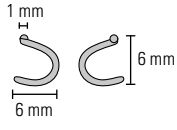
Agricola



Maximum spread: 3.5 cm
3x3 Sharp teeth
4 cm

No. 17005-04

Speculum



Maximum spread: 3.5 cm
Thin, curved blades and grooved finger grips
4.5 cm

Moria 7699
No. 17370-53

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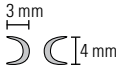
Alm Retractor with Wire Teeth



Maximum spread: 4 cm
Arms gently curved down
7 cm

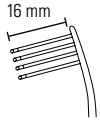
No. 17010-07

Alm Retractor with Blunt Teeth

Maximum spread: 4 cm
Arms gently curved down
7 cm

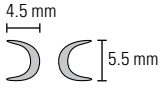
Blunt teeth
No. 17008-07

MOST POPULAR



Long blunt teeth
No. 17009-07

Alm Retractor with Blades



Maximum spread: 4.5 cm
Arms gently curved down
Thin, curved blades
7.5 cm

No. 17009-08

Spring-Loaded Retractor

Curved atraumatic blades

Maximum spread: 3 cm
Blade dimensions: 14 x 10 mm
5.5 cm

No. 17006-05

Maximum spread: 4 cm
Blade dimensions: 22 x 16 mm
8 cm

No. 17007-08

Bowman

Maximum spread: 2.5 cm
8 cm

No. 17001-07

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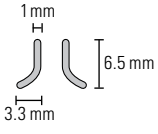
Heiss



Maximum spread: 2.3 cm
4x4 Blunt teeth
10 cm

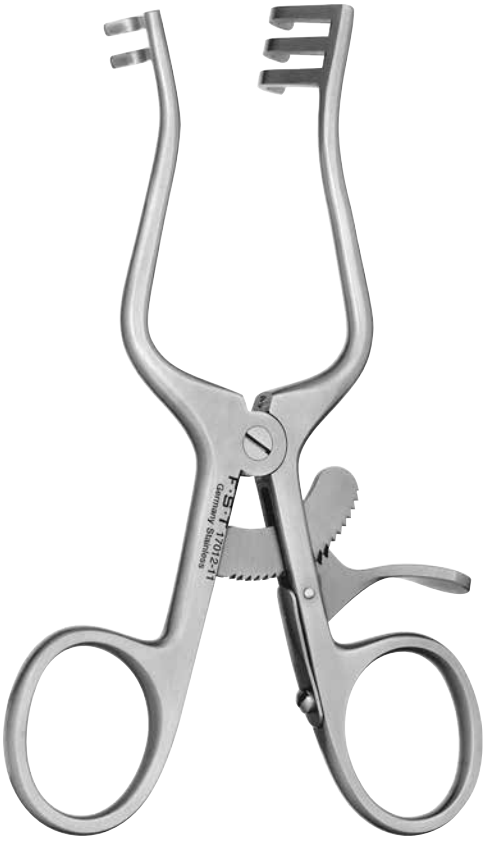
No. 17011-10

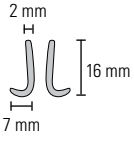
Gelpi

Maximum spread: 3 cm
Angled down
1x1 Sharp teeth
10 cm

No. 17017-10

Weitlaner-Locktite

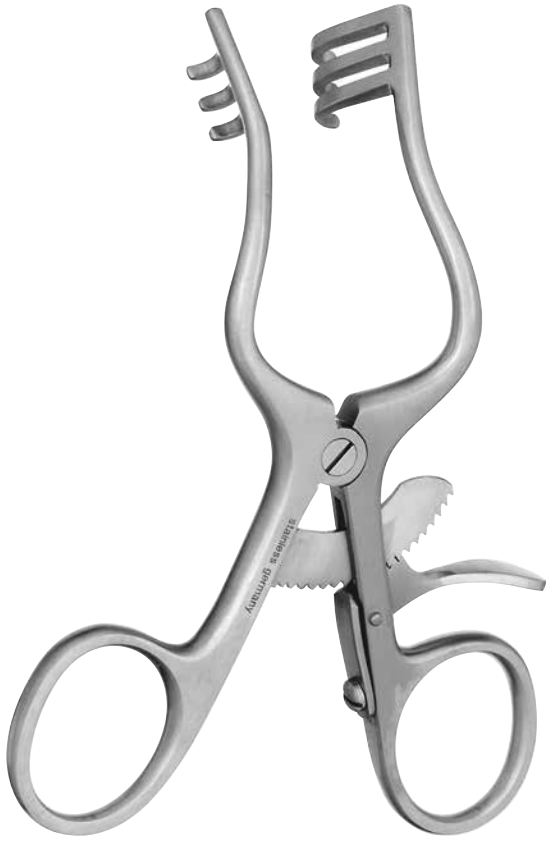


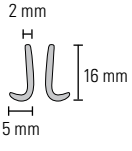


Maximum spread: 4.5 cm
2x3 Blunt teeth
11 cm
No. 17012-11

Maximum spread: 6.5 cm
3x4 Blunt teeth
13 cm
No. 17012-13

Wullstein





Maximum spread: 4.5 cm
Angled down
3x3 Blunt teeth
11 cm

No. 17018-11

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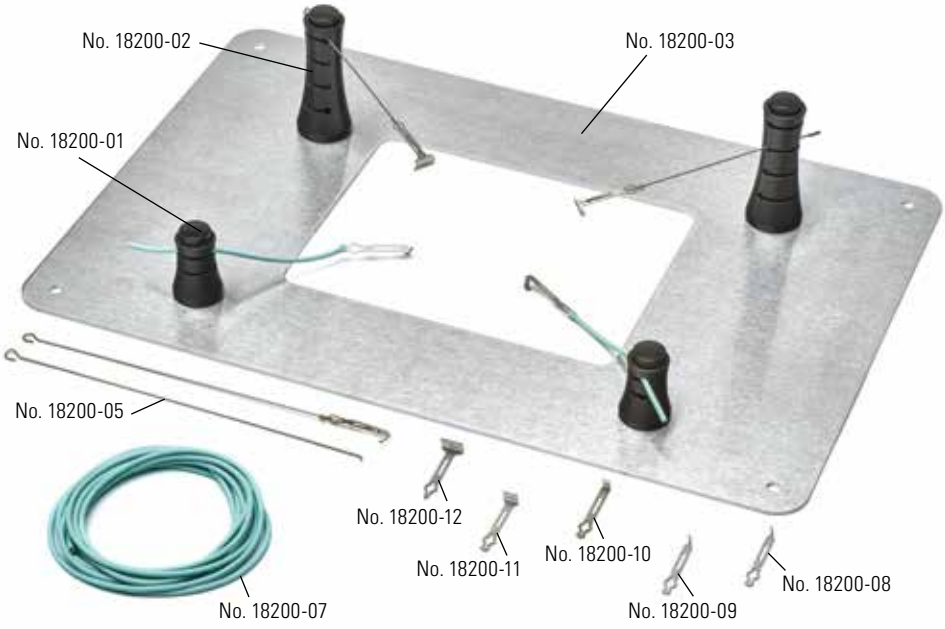


Magnetic Fixator Retraction System

This Small Animal Retraction System simplifies set-up procedure and provides the examiner with an excellent overview of the operative site. It consists of three components: Base Plate (Nos. 18200-03 & 18200-04); Fixators (Nos. 18200-01 & 18200-02); and Retractors (Nos. 18200-05 through 18200-12).

The Base Plates are made from magnetic stainless steel and are available in two sizes. The surface is nonreflective and both plates have a window in the center which allows the animal contact with body temperature control systems. The window sizes are 10 x 13 cm for the small base plate and 15 x 25 cm for the large.

The Fixators are movable anchors made from anodized aluminum with a surgical grade rare earth magnet in the base for attachment anywhere on the Base Plate. The magnets do not interfere with lab electronics and can be used in close proximity (3 cm) to ferro-magnetic items. They incorporate pushbutton-activated spring locks that grip either the Wire or Elastomer Retractors.

The Retractors are interchangeable Retractor Tips (Nos. 18200-08 through 18200-12) which attach to either Retractor Wire (Nos. 18200-05 & 18200-06) for static retraction or to Elastomer (No. 18200-07) for dynamic retraction. The Retractor Tips are light and atraumatic to delicate tissue or membrane.

All system components are autoclavable.

Kit for animals up to 200 g
Includes:
- 1 Small base plate (No. 18200-03)
- 2 Short fixators (No. 18200-01)
- 1 Tall fixator (No. 18200-02)
- 1 Elastomer, 2 m roll (No. 18200-07)
- 1 Package of retractors, blunt, 1 mm wide (No. 18200-09)
- 1 Package of retractors, blunt, 2.5 mm wide (No. 18200-10)

No substitutions

No. 18200-20 MOST POPULAR

Kit for animals from 200 g up to 5 kg
Includes:
- 1 Large base plate (No. 18200-04)
- 2 Short fixators (No. 18200-01)
- 2 Tall fixators (No. 18200-02)
- 1 Elastomer, 2 m roll (No. 18200-07)
- 1 Package of retractors, blunt, 2.5 mm wide (No. 18200-10)
- 1 Package of retractors, blunt, 5 mm wide (No. 18200-11)

No substitutions

No. 18200-50

Individual parts:

Short fixator, 2.5 cm high
Each
No. 18200-01

Tall fixator, 5 cm high
Each
No. 18200-02

Small base plate, (20 x 30 cm)
Each
No. 18200-03

Large base plate, (25 x 35 cm)
Each
No. 18200-04

Wire handles, 10 cm long
Pkg. of 10
No. 18200-05

Wire handles, 14 cm long
Pkg. of 10
No. 18200-06

Elastomer, 2 m roll
No. 18200-07

Sharp retractors
Pkg. of 10
No. 18200-08

Blunt retractors, 1 mm wide
Pkg. of 10
No. 18200-09

Blunt retractors, 2.5 mm wide
Pkg. of 10
No. 18200-10

Blunt retractors, 5 mm wide
Pkg. of 10
No. 18200-11

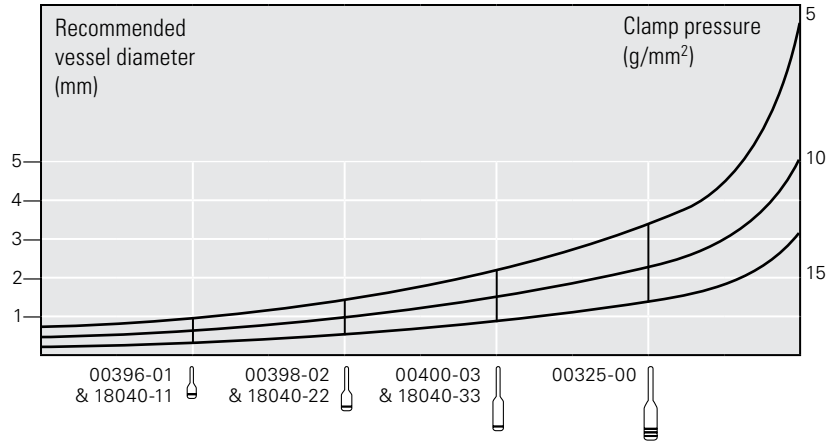
Blunt retractors, 7.5 mm wide
Pkg. of 10
No. 18200-12

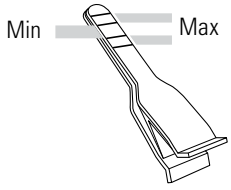
Clamp Size and Clamp Pressure

Clamp pressure is determined by the closing force of the clamp (in grams), divided by the area of the vessel wall that is compressed between the jaws (in square millimeters). Thus, the smaller the vessel, the higher the pressure exerted.

Despite the wide range of closing forces, the pressure exerted by each clamp, big or small, remains consistent throughout the series. Each size of clamp exerts a pressure of 5g/mm^2 when used on the largest vessel in its range, and 15g/mm^2 when used on the smallest vessel. Even at the higher range, S&T's micro clamps have the gentlest working pressure of any small vessel clamp available.

Clamp (ea)	L x W (mm)	Vessel Diameter Range (mm)
00396-01 & 18040-11	3.5 x 1.0	0.4 - 1.0
00398-02 & 18040-22	5.5 x 1.5	0.6 - 1.5
00400-03 & 18040-33	7.5 x 1.75	1.0 - 2.25
00325-00	10 x 2.15	2.0 - 5.0





Clamp pressure

See page 131 for Micro Clamp and Double Clamp Appliers.

Micro Clamps

S&T®

S&T B-1
No. 00396-01

S&T B-2
No. 00398-02

S&T B-3
No. 00400-03

S&T HD-S
No. 00325-00

Double Micro Clamps

For vascular approximation at anastomosis. These clamps are mounted on a 10 mm sliding bar and can easily be moved by applying gentle force. The distance between the jaws of the clamps is adjustable from 3 to 16 mm.

No. 18040-11

No. 18040-22

No. 18040-33

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Micro Clamp Applying Forceps

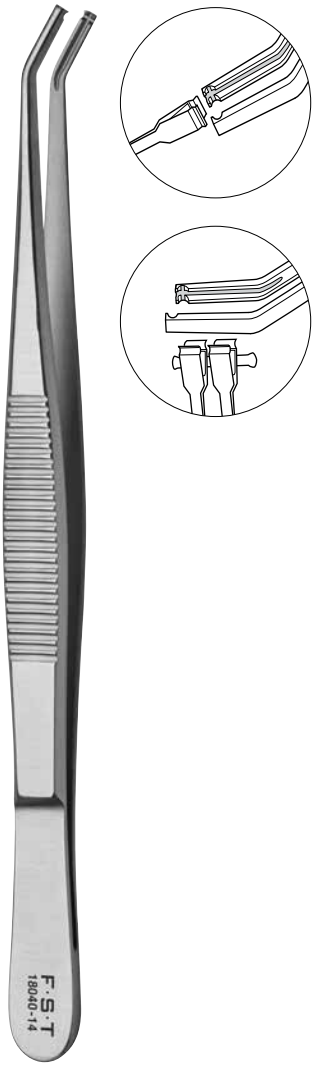
S&T®

Only compatible with
S&T Micro Clamps
14 cm

With lock
No. 00071-14

Without lock
No. 00072-14

Micro Clamp Applying Forceps



Compatible with S&T
Micro Clamps and
Double Micro Clamps
14.5 cm

No. 18040-14

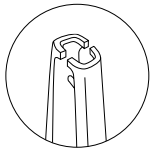
Micro Clip Applicator with Lock

For use with our 18055 series micro serrefines 14 cm

No. 18056-14

Forceps Style Clip Applicator

This applicator features special U-shaped side supports for improved seating of the clips.



For use with our 18055 series micro serrefines 14 cm

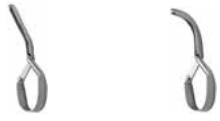
No. 18057-14

Stainless Steel Micro Serrefines

Used to obtain a clear surgical field for extended arterial cross-clamping.

Delicate atraumatic serrations
Spring width: 2 mm

No. 18055-	01	-02	-03	-04
Jaw length (mm)	10	8	6	4
Jaw width (mm)	2	2	1	0.75
Total length (mm)	19	16	15	13
Jaw pressure (g)	60	85	100	125



No. 18055-	05	-06
Jaw length (mm)	6	4
Jaw width (mm)	1	0.75
Total length (mm)	17	16
Jaw pressure (g)	100	125

Titanium Micro Serrefines

·TITANIUM·

For more information see page 183.

Lightweight with strong clamping pressure.

Delicate atraumatic serrations
Spring width: 2 mm

No. 18555-	01	-02	-03	-04
Jaw length (mm)	10	8	6	4
Jaw width (mm)	2	2	1	0.75
Total length (mm)	19	16	15	13
Jaw pressure (g)	60	85	100	125

Cautionary note: Micro Serrefines should never be compressed with fingers; use only the appropriate applicator No. 18056-14 or No. 18057-14.

Moria Vessel Clamp

Finely serrated (atraumatic)
Light pressure
For vessels up to 2 mm in diameter
Calibrated to 15g/mm^2
1.8 mm wide, 3 cm long
Straight
33 mm

Moria 201/A
No. 18320-11

Moria

Moria Bulldog Type Clamps

Non-serrated
Strong pressure
2 mm wide
53 mm

Straight
Moria MC43
No. 18374-43

Curved
Moria MC44
No. 18374-44

Moria

Dietrich Bulldog Clamps

Serrated
Good access to deep seated vessels
Closing pressure: 50 g (light)
Weight: 3 g

Straight
52.5 mm
No. 18038-45

Angled
50 mm
No. 18039-45

Bulldog Type Serrefines

Serrated

Straight
Medium pressure
28 mm
No. 18050-28

Curved
Medium pressure
28 mm
No. 18051-28

Straight
Strong pressure
35 mm
No. 18050-35

Straight
Strong pressure
50 mm
No. 18050-50

Curved
Strong pressure
35 mm
No. 18051-35

Curved
Strong pressure
50 mm
No. 18051-50

Schwartz Micro Serrefines

Non-serrated
Strong pressure
26 mm

MOST POPULAR

Straight
No. 18052-01

Light bend
No. 18052-02

Sharp bend
No. 18052-03

Mini Serrefines

Smallest bulldog-type hemostatic clamps
Medium pressure
Gentle serrations
2 mm wide
28 mm

Straight
No. 18054-28

Curved
No. 18053-28

Bulldog Artery Spring Clamp

Can be used with a minimum of distortion for MRI investigations.

Straight
Serrated
Light pressure
30 mm

·TITANIUM·

For more information see page 183.

No. 18144-30

Silver Neuro Clips

These single-use, silver neuro clips are meant for permanent vessel occlusion.

Pkg. of 100 clips
No. 18040-00

Vascular Occluders

Applications

- Fast, dependable zero-flow baseline determination in blood flow studies.
- Partial to full occlusion of vessels for circulation research studies.
- Prolonged implantations, such as chronic blood flow studies.
- Constriction of soft organs in acute or chronic applications.

Operation

Step 1 Apply the occluder cuff around the exposed blood vessel. Secure it in place with suture material through the eyelets.

Step 2 Occlude the vessel to the desired degree by inflating the diaphragm with air or liquid injected into the actuating tube using a syringe and blunt needle. Clamp the tubing to maintain occlusion of the vessel over time.

Step 3 To deflate, simply withdraw the air or liquid.

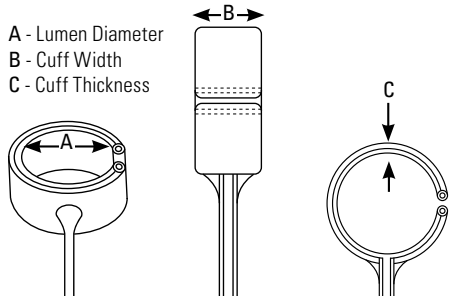
The actuating tube length is 90 cm and measures 0.76 mm ID x 1.6 mm OD. Detailed instructions are included.

Benefits

- Occlusion is accomplished without traction on vessels or surrounding tissues.
- The actuating tube may be exteriorized from the occlusion site for remote actuation.
- Performance during implantations is reliable and consistent.
- Autoclavable or cold sterilized, and easily maintained.
- Made from soft, flexible 100% silicone rubber.
- Fully operational with instant response using air, liquids, or inert gases.

Selection

The lumen diameter when deflated is usually the determining factor in the selection of the proper device. Select the occluder size that provides a slightly loose fit around the subject vessel. The cuff width and thickness will vary, depending on models and sizes.



VO-1.5 N
Lumen diameter: 1.5 mm
Cuff width: <3.5 mm
Cuff thickness: 1.5 mm

No. 18080-01

VO-2
Lumen diameter: 2 mm
Cuff width: 5 mm
Cuff thickness: 1.5 mm

No. 18080-02

VO-3
Lumen diameter: 3 mm
Cuff width: 5 mm
Cuff thickness: 1.5 mm

No. 18080-03

V-Hook

Aids in feeding fine suture around blood vessels, works very similar to ligation aids.

400%

Tip diameter: 0.4 x 0.2 mm
11 cm

No. 18052-12

Ligation Aids

A handy instrument for leading a fine suture under and around a blood vessel for tying-off purposes. Also useful for ligating peripheral nerves. Grooves toward hole help threading.

150%

Ultrafine
Hole diameter: 0.4 mm
10.5 cm

No. 18062-12

175%

Hole diameter: 1 mm
13.5 cm

No. 18062-13

150%

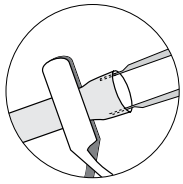
LEFT HANDED

Hole diameter: 1 mm
13.5 cm

No. 18063-13

Vessel Dilators

Highly modified forceps with elongated, parallel tips which are highly polished. Designed for controlled intraluminal vessel dilation.



Angled 10°
11 cm

Tip diameter: 0.1 mm
No. 00126-11

Tip diameter: 0.2 mm
No. 00125-11

Angled 45°
Tip diameter: 0.2 mm
13.5 cm

No. 00276-13

Angled 10°
12 cm

Tip diameter: 0.1 mm
No. 18131-12

Tip diameter: 0.2 mm
No. 18132-12

Tip diameter: 0.3 mm
No. 18133-12

USA 800-521-2109 / 650-349-1636 · CANADA 800-665-5355 / 604-980-2481 · GERMANY +49 (0) 62 21-90 50 50

Balanced Instruments

Balanced instruments are designed to put the center of gravity between the thumb and index finger. This is accomplished by adding a slight counter weight to the proximal end of the instruments. The design enhances tactile feel, aiding in better control and precision.

Vessel Dilators

The tips of these multipurpose forceps are configured to enable their use as dilators at the front, as well as needle holders and tying forceps further in the back. The platform at the tips close parallel ensuring a reliable grip.

86% of actual size

Straight
Suture tying platform
Tip diameter: 0.1 mm
14.5 cm

No. 18601-15

86% of actual size

Straight
Suture tying platform
Tip diameter: 0.3 mm
15 cm

No. 18602-15

Vessel Dilator

86% of actual size

Angled
Smooth
Tip diameter: 0.2 mm
14.5 cm

No. 18603-14

Micro Cannulation System

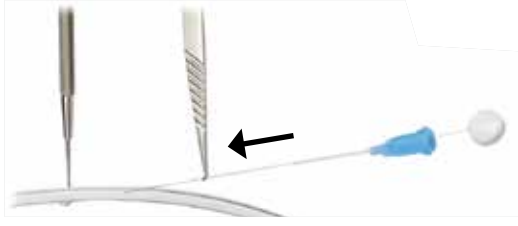
This micro cannula is most helpful for quick and easy insertion in arteries and veins. It can be used as an "indwelling" catheter during long term experiments. With care, thorough rinsing and sterilization, it can be reused several times. Detailed instructions are included.

Features

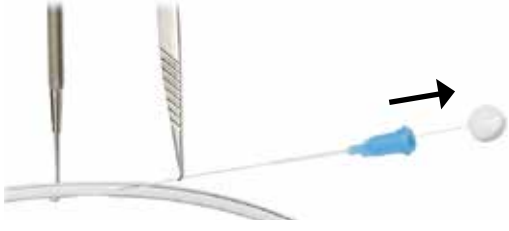
- Biocompatible Teflon® tubing.
- Cannula size 0.33 mm OD – 0.16 mm ID
- A pointed stainless steel stylus (trocar), to aid in vascular penetration and allow a maximum range of cannula manipulation during insertion.
- Contoured tip for easy insertion, fitted with shoulder for "tie-in" to prevent accidental removal.
- Female luer connection for linkage to infusion lines.

8 cm
No. 18000-10

1 Approach
Cannulation Forceps (Item No. 18403-11) and Spinal Cord Hook (Item No. 10162-12) aid in the insertion process.



2 Insertion
Remove trocar and advance cannula.

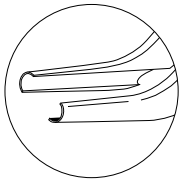


3 Secure
Use shoulder hub and suture to "tie in" cannula to prevent accidental removal.

Instruments sold separately.

Vessel Cannulation Forceps

These vessel cannulation forceps are useful whenever a fine plastic tube has to be introduced into a small blood vessel of almost equal size. The hollowed jaws hold the tubing securely without deforming it. The tip of the tubing is directed exactly into the vessel opening without damage to the vessel from unwanted movement.



S&T®

For tubing between
0.5 and 1 mm OD
11 cm

No. 00574-11

DUMONT SWISSMADE

For tubing of 0.35 mm OD
11 cm
No. 11280-11

For tubing of 0.5 mm OD
11 cm
No. 11281-11

For tubing of 1 mm OD
11 cm
No. 11282-11

For tubing of 0.35 mm OD
11.5 cm
No. 18403-11

For tubing of 0.6 mm OD
11.5 cm
No. 18406-11

For tubing of 0.6 mm OD
13.5 cm
No. 18406-13

Surgical & Laboratory Accessories

Animal Accessories	Pages	141 – 143
Instrument Care & Accessories	Pages	144 – 155
Surgical Accessories	Pages	156 – 159
Laboratory Accessories	Pages	160 – 171

Reusable Gavage Feeding Needles

Stainless steel feeding needles with luer lock hub. Also ideal for transcardiac perfusions with a fixative.

Barrel tip

MOST POPULAR

(No. 18060-20)

Round tip

(No. 18061-24)

(No. 18061-50)

Round tip

Gauge	Length (mm)	Tip diameter (mm)	Shape	Mice	Rats	Guinea pigs	Item	Price
24	25	1.25	Straight	>14 g			**No. 18061-24**	
22	25	1.25	Straight	15-20 g			**No. 18061-22**	
20	30	Barrel	Straight	20-25 g		50-75 g	**No. 18060-20**	
20	38	2.25	Straight	20-25 g		50-75 g	**No. 18064-20**	
20	38	2.25	Curved	20-25 g		50-75 g	**No. 18065-20**	
18	38	2.25	Straight	20-30 g	100-200 g	250-300 g	**No. 18061-38**	
18	50	2.25	Curved	25-30 g	100-200 g	250-300 g	**No. 18061-50**	
16	75	3.00	Curved		150-300 g	350-450 g	**No. 18061-75**	
16	100	3.00	Curved		150-300 g	350-450 g	**No. 18061-10**	

NEW ITEM

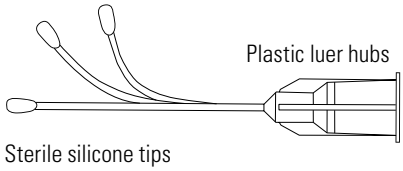
FEEDING

Single Use Gavage Feeding Needles

These economical feeding needles feature plastic luer hubs with silicone tips. They are nontoxic and nonpyrogenic. Needles can be easily formed to any desired shape. **Sterile.**

MOST POPULAR

(No. 18061-20)



Pkg. of 5 needles

Gauge	Length (mm)	Tip diameter (mm)	Shape	Mice	Rats	Guinea pigs	Item	Price
20	38	1.75	Flexible	20-25 g	50-75 g		**No. 18061-20**	
18	50	2.50	Flexible	25-30 g	100-200 g		**No. 18061-18**	
15	75	3.00	Flexible		200-350 g	400-600 g	**No. 18061-15**	

GenoPunch

The interchangeable GenoPunch aids in the fast and simple collection of the 2 mm tissue sample for DNA analysis and/or genotyping. FST Exclusive Item. **Autoclavable.**

Microtubes not included.

80% of actual size

GenoPunch includes:

- 1 GenoPunch
- 1 0.5 ml tube holder
- 1 1.6 ml tube holder
- 1 Screwdriver
- 4 Screws

FST does not supply microtubes.

Stainless steel and anodized aluminum
Punch diameter: 2 mm
11.5 cm

No. 24215-02

Ear Punch

Designed to ensure a fast and clean punch, this ear punch is lightweight and fits comfortably in the palm of your hand. FST Exclusive Item. **Autoclavable.**

80% of actual size

Stainless steel and
anodized aluminum
Punch diameter: 2 mm
11.5 cm

No. 24214-02

Finger Loop Ear Punch

This ear punch provides stability and control for researchers using the numbering system. The 1 mm ear punch offers greater numbering variations and/or patterns.

80% of actual size

10.5 cm

Punch diameter: 1 mm
No. 24212-01

Punch diameter: 2 mm
No. 24212-02

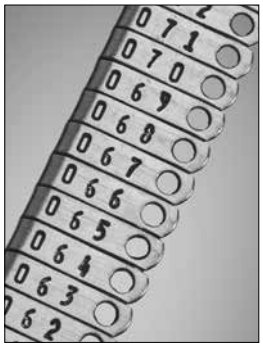
Self Piercing Ear Tags

Ideal for use in small animals such as mice and rats, these ear tags come numbered from 1-100 or 1-500. Silver colored tags with black numbers provide high visibility making them easy to read. Once applied, tags seal and cannot be removed, providing an easy to use, permanent identification method. These ear tags are safe for use in salt water.

Ear tags
Alloy: Monel
7.8 x 2.8 mm

Black numbers 1-100
No. 24220-10

Black numbers 1-500
No. 24220-50



Ear Tags (enlarged view)

80% of actual size

Applicator
Stainless steel
14 cm

No. 24220-00

Animal Microtattoo System

A quick, efficient and affordable method of permanently identifying laboratory animals (mice as early as 1 day old). Designed and tested by laboratory animal technicians, the system utilizes a hypodermic needle at one end of a stainless steel forceps and a small metal cup containing green tattoo paste at the other side of the forceps.

By squeezing the forceps together, the needle penetrates the toe, footpad or ear of the animal and injects a deposit of green tattoo paste into the animal. A grid location pattern provided enables a numbering system that extends over 1 million.

Use of the microtattoo system is humane and in compliance with regulatory agencies for the care and use of laboratory animals. Detailed instructions are included. **Both the microtattoo forceps and green tattoo paste are autoclavable.**

Animal microtattoo system includes:

- 1 Pair plated steel microtattoo forceps
- 1 Tube (1 oz.) of green tattoo paste
- 1 Aluminum planchette
- 2 Hypodermic needles
- 1 Plastic holding case

55% of actual size

Animal microtattoo system
13 cm

No. 24201-00

Green tattoo paste
1 oz

No. 24201-01

Silicone Seal and Lubricant

This stiff non-melting silicone base maintains its consistency from -40°C to 200°C (40°F to 392°F) with less than 2% evaporation after 24 hours of exposure to 150°C (302°F). Typical applications include lubrication of stopcock rotating parts and other lab items. Seals vacuum and low pressure systems. Compatible with glass, plastics, metals, synthetic rubber gaskets and seals. **Autoclavable.**

15 ml container
No. 29051-45

Demagnetizer

This safe and easy to operate tabletop demagnetizer has a large coil opening of 8 x 4 cm in a rigid, molded housing. Can be used to demagnetize or magnetize instruments.

12 x 5.5 x 9 cm

No. 18000-15

European version differs from photo.

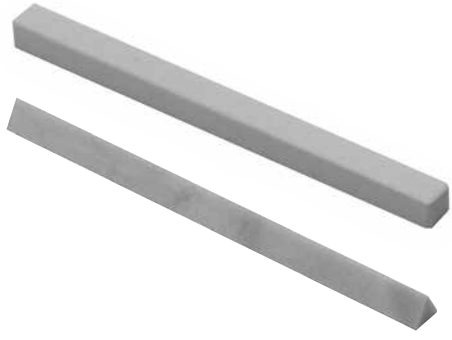
Instrument Sharpening Stones

Natural Arkansas oil stones feature unequaled fineness, hardness and structural density. When used with mineral oil, they will produce a sharper cutting edge.

6 mm x 9 cm

Square stone
No. 29008-01

Triangular stone
No. 29008-12



Instrument Oil and Oil Pen

Physiologically inert oil for lubricating surgical instruments, box locks, ratchets and any overlapping joints. Oil pen is refillable.

50 ml bottle
No. 29055-00

7 mm needle
12.5 cm

12 ml oil pen
No. 29055-12

Sharpening Stone for Fine Forceps

This natural Arkansas stone assists in resharpening the tips of fine forceps. The stone has two grooves, 0.8 mm and 1.6 mm, and comes in a cedar box with ten O-rings.

4 x 1 x 10 cm

No. 29008-22

Fine Forceps Repair Kit

Realign and repair fine forceps with this convenient kit. Bent forceps tips can be restraightened with the chain nose pliers. The sharpening stone has two grooves, 1.6 mm and 0.8 mm, to assist in resharpening the forceps tips. O-rings clamp the forceps shut to ensure that both shanks are equally aligned and sharpened. Instrument oil assists in producing a smooth sharp edge. Detailed instructions are included.

Kit includes:

- 1 Sharpening stone for fine forceps with ten O-rings (No. 29008-22)
- 1 Instrument oil, 50 ml bottle (No. 29055-00)
- 1 Chain nose pliers

No. 29000-00 MOST POPULAR

Optical Cleaning Kit and Lens Paper

This convenient kit contains everything you need to clean lens surfaces safely. Perfect for microscopes, camera lenses, binoculars, telescopes, graphic art optics, and all other fragile lenses. Storage case included.

Kit includes:

- 1 Bottle of lens cleaner (30 ml)
- 1 Ultra soft duster brush
- 1 Cleaning cloth (20 x 20 cm)
- 3 Books of lens paper (25 sheets each)

Kit
No. 29000-10

Lens Paper
15 x 10 cm
Book of 50 sheets
No. 29015-50

Instrument Marking Tape

Organize instruments quickly and easily with this economical, non-toxic, pressure sensitive tape. Color is unaffected by boiling, cold sterilization or autoclaving. 8 colors available. **Autoclavable.**

Material: Vinyl
290 x 0.6 cm (each roll)

Green
No. 29071-01

Blue
No. 29071-02

Yellow
No. 29071-03

Red
No. 29071-04

White
No. 29071-05

Black
No. 29071-06

Brown
No. 29071-07

Orange
No. 29071-08

Instrument Marking Tape
8 Assorted Colors

Organize instruments quickly and easily with this economical, non-toxic, pressure sensitive tape. Color is unaffected by boiling, cold sterilization or autoclaving. Includes 8 assorted color rolls: Yellow, Red, Black, White, Green, Brown, Blue and Orange. **Autoclavable.**

Material: Vinyl
107 x 0.6 cm (each roll)

No. 29080-00

MOST POPULAR

Instrument Tip Protectors

These tip protectors are a convenient, color-coded way to protect surgical instrument tips and edges. They provide exceptional protection and are vented to prevent rusting from condensation. Instrument tip protectors are recommended during handling, storage, and sterilization. **Autoclavable.**
Material: Plastisol

1.6 x 19.1 mm

Pkg. of 25
No. 29060-01

2 x 19 mm

Pkg. of 25
No. 29060-02

2.8 x 19.1 mm

Pkg. of 25
No. 29060-03

3.2 x 25.4 mm

Pkg. of 25
No. 29060-04

4.8 x 25.4 mm

Pkg. of 25
No. 29060-05

2 x 9.5 x 25.4 mm

Pkg. of 25
No. 29060-06

Assorted pack, five of each size

Pkg. of 30
No. 29060-00

MOST POPULAR

Double Tip Protectors

These vented tip protectors are designed to hold hemostats and rongeurs firmly while allowing the jaws, box hinge and tips to stay open for thorough sterilization. **Autoclavable.**
Material: Plastisol

12.7 x 20 mm

Pkg. of 10
No. 29066-01

9 x 25.5 mm

Pkg. of 10
No. 29066-02

15 x 25 mm

Pkg. of 10
No. 29066-03

25 x 26 mm

Pkg. of 10
No. 29066-04

Assorted pack, three of each size

Pkg. of 12
No. 29066-00

Self Sealing Sterilization Pouches

Preformed pouches with self adhering tape are blue tinted on one side for visualization of contents, and paper-backed on the other side. Pouches will work with either steam autoclave or ethylene oxide sterilization.

Advantages:

- Protects instruments during sterilization.
- Provides sterile storage until use.
- Write on pouches for easier identification during sterilization.

10 x 18 cm
For instruments up to 13 cm long

Pkg. of 100 pouches
No. 28000-07

13 x 26 cm
For instruments up to 23 cm long

Pkg. of 100 pouches
No. 28000-10

18 x 30 cm
For instruments up to 26 cm long

Pkg. of 100 pouches
No. 28000-12

Hot Bead Sterilizer

The sterilizer provides a safe, effective and convenient method for sterilizing your surgical instruments prior to and during surgery or tissue culture. Without using potentially dangerous gases, flames or chemicals, you can ensure that your instruments will be free of pathogens and microbial contaminants.

The beads take 15–20 minutes to reach 240°C to 270°C (464°F to 518°F), and then the sterilizer is ready for use. The temperature is thermostatically maintained, and the unit can be left on all day. Instruments require approximately 20 seconds of contact with the beads for complete sterilization. The sterilizer is safe to use even in laminar flow hoods.

Sterilization test results conducted by the Pasteur Institute in Lille, France, are available upon request. Available in 110V and 220V. CE Certified and UL Approved.

Sterilizer includes:

- Sterilizer unit
- 2 Bags of glass beads
- 1 Dust cover for well
- 1 Small heat-tempered glass dish for small objects (only with FST 250)

FST 250 shown.
Instruments not included.

MOST POPULAR

FST 250 Sterilizer
Well diameter: 4 cm
Well depth: 8 cm
Well volume: 100 ml
Total unit size: 14.5 x 12.5 x 13.5 cm

No. 18000-45

FST 350 Sterilizer
Well diameter: 4 cm
Well depth: 14 cm
Well volume: 175 ml
Total unit size: 20.5 x 12.5 x 13.5 cm

No. 18000-50

Replacement glass beads for FST 250
No. 18000-46

Replacement glass beads for FST 350
No. 18000-51

Autoclave Tape Dispenser

Easy loading core with heavy duty steel construction and a non-skid base. Serrated cutting blade cuts tape fast and cleanly.

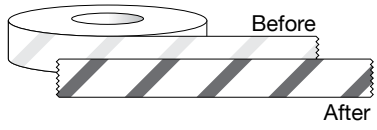
Coated steel
23.5 cm

Tape sold separately.

No. 28001-00

Autoclave Tape

Tape will permanently indicate diagonal stripes after exposure to steam autoclave temperature between 121°C and 130° C during a 40-60 minute time period. Use with sterilization pouches, sterilization wraps and sterilization cases.



2 cm x 55 m

No. 28001-02

Surgical Skin Marker

This marker features a versatile tip for precise fine (0.2 mm) line marking, or when held at an angle, a broad (2 mm) line marking.

The marker's violet ink is nontoxic, non-tattooing and surgical prep-resistant. Markings can be removed from the skin with isopropyl alcohol. A six-inch ruler calibrated in both centimeters and inches is included.

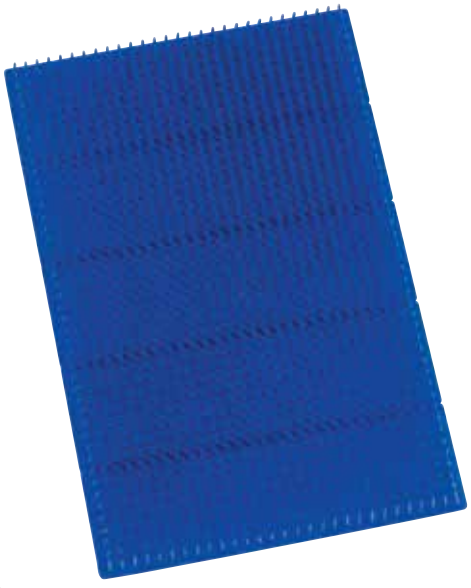
14 cm

No. 18000-30

80% of actual size

Silicone Mat

High quality, extra soft mat for safe and secure placement of delicate instruments. This mat can easily be cut along the premarked grooves to fit in various sized instrument cases. **Autoclavable.**



30 x 20 cm

No. 20325-00

Magnetic Sterilization Mat

Used during sterilization and for safe anti-slip placement around surgical settings. **Autoclavable.**

Instruments not included.

30 x 20 cm

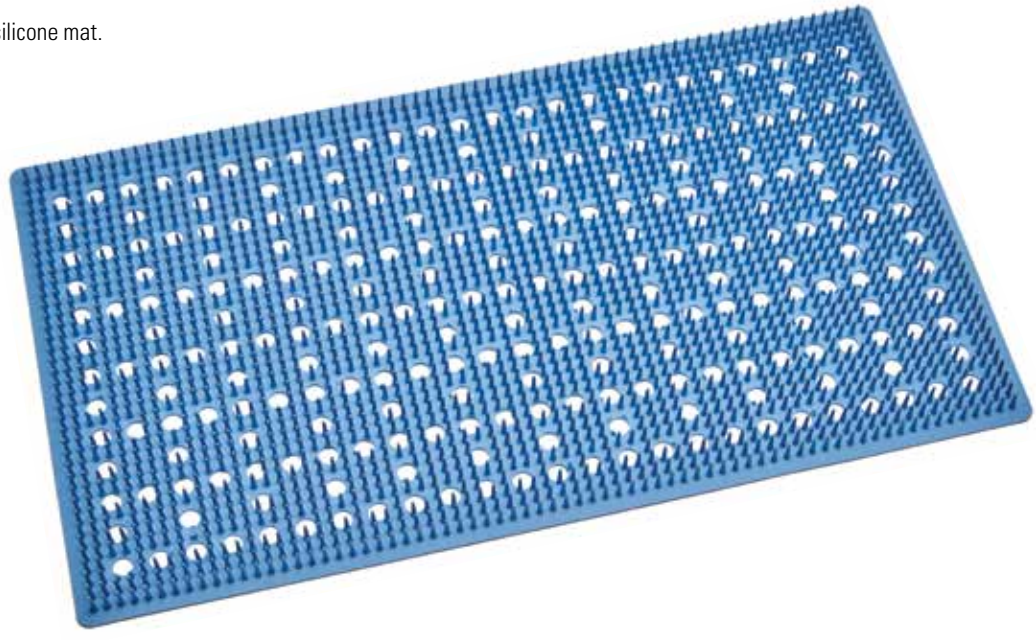
No. 20350-00

Silicone Mat

Large, economical silicone mat.
Autoclavable.

46 x 25 cm

No. 20325-10



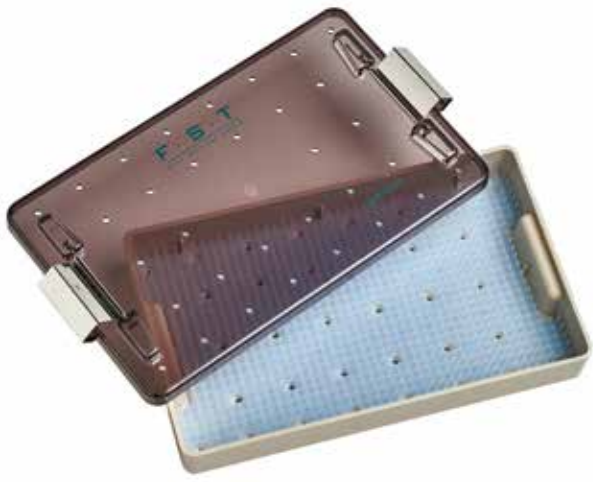
Sterilization Container

This plastic sterilization container includes a silicone mat for safe placement of instruments. Perforated top is clear for visual identification of instruments. **Suitable for autoclave or ethylene oxide sterilization.**

19 x 10 x 2 cm

MOST POPULAR

No. 20810-01



27 x 16 x 4 cm

No. 20810-02

Two Tiered Sterilization Container

This plastic sterilization container has two tiers of silicone slots that will accommodate up to 12 different instruments. Hinged top and bottom lock tight. Container is perforated. **Suitable for autoclave or ethylene oxide sterilization.**

25 x 12 x 3 cm

No. 20820-00

Disposable Sterilization Wraps

These biodegradable cellulose fiber wraps are resistant to tears and conform easily to maintain a breathable yet impervious barrier to airborne bacteria, saline, blood and water. Wrapping your instrument case securely will ensure the sterility of your instruments until ready for use. Available in two sizes.

38 x 38 cm

Pkg. of 25 wraps
No. 28015-15

51 x 51 cm

Pkg. of 25 wraps
No. 28020-20

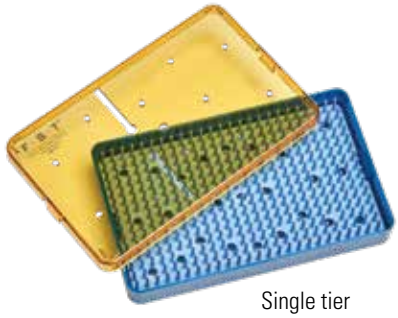
Cases not included.

Sterilization Container

This sterilization container is made from Ultem® polymer to ensure strength and long lasting durability. The transparent perforated lid provides easy identification of your surgical instruments. Silicone mat is included for a safe and secure hold. Trays are also stackable for convenience. **Suitable for autoclave or ethylene oxide sterilization.**

Single tier
19 x 7 x 2 cm

NEW ITEM No. 20840-01

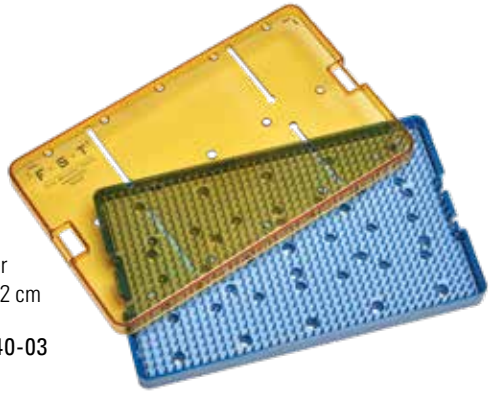


Single tier
17 x 10 x 2 cm

No. 20840-02

Double tier
25 x 15 x 4 cm

No. 20842-03



Single tier
25 x 15 x 2 cm

No. 20840-03

CASES

Dual Clasping Stainless Steel Sterilization Container

This container will assist in the sterilization and storage of your fine surgical instruments. It comes with a custom fit silicon mat and one single-use filter for keeping the instruments sterile while they remain in the container. **Suitable for autoclave or ethylene oxide sterilization.**

30 x 14 x 4 cm

No. 20850-00

5 Long-term textile filters
No. 20850-10

Stainless Steel Sterilization Container

Removable perforated interior plates hold long-term textile filters which keep the instruments sterile while they remain in the container. Lid can be locked in place. Comes with two textile filters installed. **Suitable for autoclave or ethylene oxide sterilization.**

20 x 10 x 4 cm

No. 20890-51

10 Long-term textile filters
No. 20890-72

Deluxe Stainless Steel Instrument Case

This case is built to withstand the roughest lab use. The lid is hinged and has a secure locking clasp. The inside bottom of the case is lined with a silicone mat which will cushion the most delicate instruments against impact.

The inside top of the lid has two specially shaped silicone strips which press down gently on the instruments inside the case as the lid is closed, holding them securely in place.

Case and silicone inserts are autoclavable but should not be used for sterilizing surgical instruments.

20 x 14 x 5 cm

No. 20020-00

Utility Instrument Case

Comes with a silicone mat for safe placement of instruments. **Case and silicone insert are autoclavable but should not be used for sterilizing surgical instruments.**

18 x 9 x 3 cm

No. 20311-21 MOST POPULAR

Moria

Instrument Case

This plastic case is compact, safe, secure, and slotted for placement of individual surgical instruments, aiding in the prevention of tip damage. Five colors available.
Case is autoclavable but should not be used for sterilizing surgical instruments.

17 x 8 x 2 cm

Instruments not included.

Blue	Green	Clear	Yellow	Pink	Orange
No. 20830-00	No. 20830-01	No. 20830-02	No. 20830-03	No. 20830-04	No. 20830-05

Low Cost Cautery Kit

This low cost, high temperature cauterizer is a great alternative to disposable cautery units. Temperature at tips is approximately 1000°C (1832°F). Replacement cautery tips are available.
Not autoclavable.

Plastic body
Stainless steel tips: 0.2 mm diameter
Total weight: 60 g
Length: 17.5 cm (without tip)

Cautery kit includes:
- 1 Cautery handle
- 2 Standard tips
- 2 Fine tips
- 2 AA Batteries
- 1 Storage case

Cautery kit
No. 18010-00

MOST POPULAR

65% of actual size

Replacement tips
Straight standard

Box of 10 tips
No. 18010-01

Replacement tips
Straight fine

Box of 10 tips
No. 18010-02

Small Vessel Cauterizer

This small hand-held unit keeps bleeding to a minimum and therefore provides a surgical field clear of clamps and hemostats. The cauterizer should be activated momentarily so the delicate tips do not burn out. Temperature at tips is approximately 1000°C (1832 °F). Replacement cautery tips are available. **Autoclavable.**

Heavy gauge stainless steel body
Platinum-iridium tips: 0.3 mm diameter
Total weight: 100 g
Length: 13.5 cm (without tip)

Cautery kit includes:
- 1 Cautery handle
- 1 Straight fine tip
- 1 Angled fine tip
- 2 AA Batteries
- 1 Storage Case

Cautery kit
No. 18000-00

Cautionary note:
Remove batteries before autoclaving.

65% of actual size

Replacement tip
Straight fine

No. 18000-01

Replacement tip
Angled fine

No. 18000-02

Replacement tip
Straight knife

No. 18000-03

Replacement tip
Straight knob

No. 18000-04

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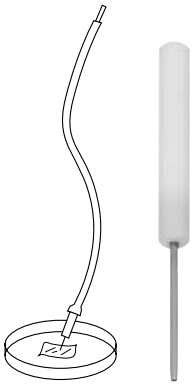
Neuro Punches



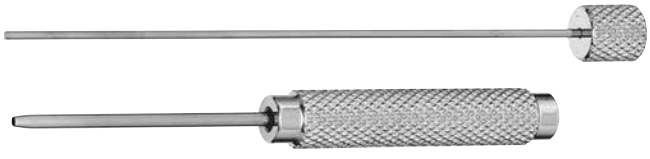
N.I.H. style neuro punches for punch removal of frozen brain microregions.

ID (mm)	OD (mm)	Gauge	Length (cm)	Item	Price
0.31	0.61	24	4.2	No. 18036-24	
0.41	0.70	22	4.5	No. 18036-22	
0.69	1.00	19	4.5	No. 18036-19	

Sample Corers

For quantitative analysis. Comes with plunger.

8.5 cm



ID (mm)	OD (mm)	Gauge	Item	Price
0.35	0.80	21	No. 18035-35	
0.50	1.00	19	No. 18035-50	
0.80	1.45	17	No. 18035-80	
1.00	1.80	15	No. 18035-01	
2.00	3.00	11	No. 18035-02	
3.00	4.00	8	No. 18035-03	
5.00	6.00	4	No. 18035-05	

Absorption Spears and Triangles

These synthetic surgical sponges absorb fluids twice as fast as the best cotton sponges and have three times their fluid-holding capacity. They are made from strong, soft, lint-free biocompatible-proven material that is non-irritating to delicate tissue and leaves no fibrous residue that might cause wound contamination. The Absorption Spears are sterilized by radiation.

Absorption Spears
Sterile
7 cm

Box of 200 spears
No. 18105-01

Absorption Triangles
Sterile
2 cm

Box of 500 triangles
No. 18105-03

Instrument Beaker with Silicone Bottom

Instruments are placed in the beaker with their tips immersed in distilled water when not in immediate use. This keeps the instruments clean and functional and ready to grasp. The instrument tips are protected from damage by the soft silicone rubber bottom. Segmented lid keeps instruments organized and secure.

Diameter: 10 cm
Height: 8 cm

No. 00081-00

S&T®

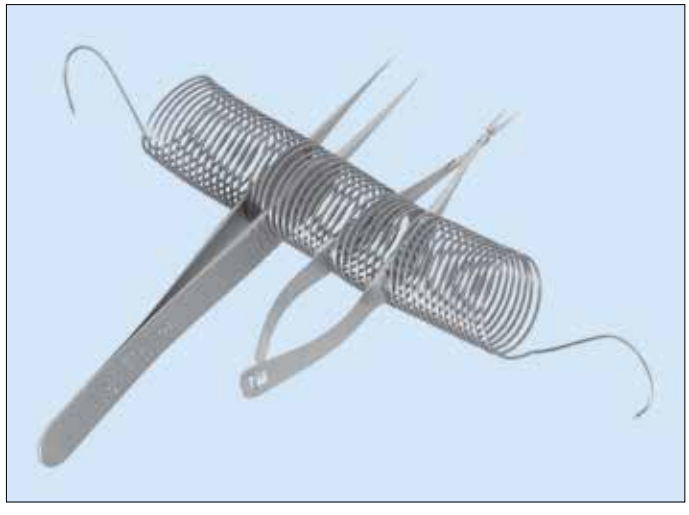
Instrument not included.

Instrument Holding Spring

For the safe placement of delicate surgical instruments during use. Pin the sharp ends into the drape to secure the mounting spring.

Diameter: 2 cm
Length: 4 cm (closed)

No. 18090-00



Instruments not included.

Stainless Steel Burrs

Shaft diameter: 2.3 mm
Length: 44 mm
Pkg. of 10 burrs

Diameter (mm)	Item	Price
0.7*	No. 19008-07	
0.9**	No. 19008-09	
1.4	No. 19008-14	

* Use this size for screws No. 19010-10.

** Use this size for screws No. 19010-00.

Carbon Steel Burrs

Shaft diameter: 2.3 mm
Length: 44 mm
Pkg. of 10 burrs

Diameter (mm)	Item	Price
0.5	No. 19007-05	
0.7*	No. 19007-07	
0.9**	No. 19007-09	
1.4	No. 19007-14	
2.1	No. 19007-21	
2.9	No. 19007-29	

* Use this size for screws No. 19010-10.

** Use this size for screws No. 19010-00.

MOST POPULAR

Stainless Steel Trephines

Side opening for clearing of material.

Shaft diameter: 2.3 mm
Length: 44 mm
Sold individually

1.8 - 2.7 mm

5 mm

Diameter (mm)	Item	Price
1.8	No. 18004-18	
2.3	No. 18004-23	
2.7	No. 18004-27	
5	No. 18004-50	

Stainless Steel Circular Saw

For cutting bone and other hard substances.
Attaches to mandrel (No. 18000-18), right.

Diameter: 16 mm
Thickness: 0.1 mm

Pkg. of 10 saws
No. 18000-20

Stainless Steel Mandrel

Screw allows attachment of discs and circular saws for use with high speed drills.

Shaft diameter: 2.3 mm
Length: 45 mm

No. 18000-18

DRILL BITS

Miniature File Set

Comes with 8 different file profiles in a vinyl pouch.
Not autoclavable.

10 cm

No. 30076-14

Screwdriver Set

6 screwdrivers with nickel-plated handles, hardened blades of 1, 1.5, 1.8, 2.3, 2.9 and 3.6 mm width. Comes in a wooden case.

No. 30090-06

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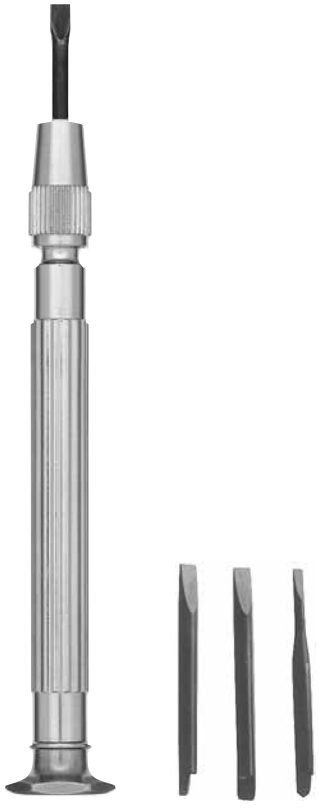
4-in-1 Screwdriver

With 4 hardened, interchangeable blades stored in handle.



10.5 cm

No. 30051-10

Utility Scissors

These scissors are extremely hard (54 on the Rockwell scale). Useful for cutting tin or aluminum sheets, bone, plastics, etc. The strong, 3 mm thick blades are magnetic. The plastic handles are anatomically shaped. **Not autoclavable.**

75% of actual size

Stainless steel with plastic handle
21 cm

Right-handed
No. 37500-00

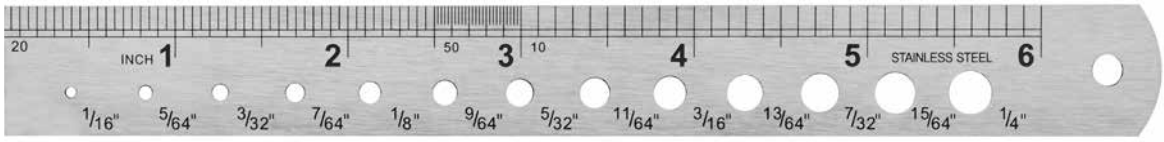
LEFT HANDED
No. 37000-00

Ruler with Gauge Measurements

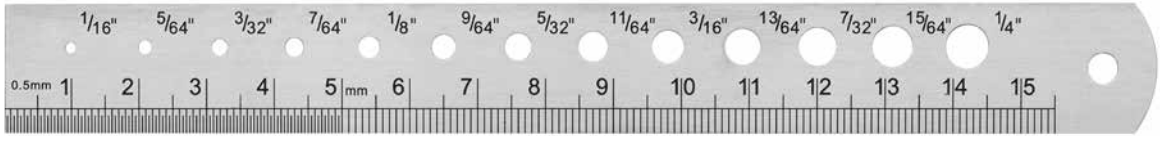
Stainless steel

15 cm (6")
No. 30085-15

90% of actual size



Front



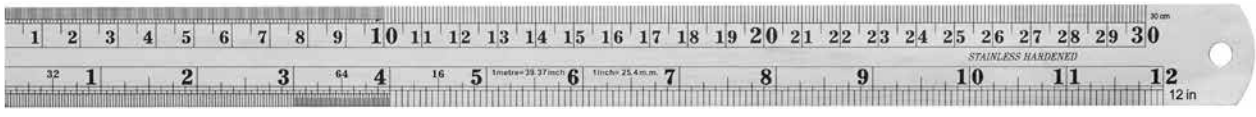
Back

Ruler with Metric Conversion Table

Stainless steel

30 cm (12")
No. 30085-30

50% of actual size



Front

Back

Ruler Label

Used for stable measurements in all surgical platforms.

6 cm

Pkg. of 25 labels
No. 29027-00

Plastic Vernier Caliper

Tough polymer is unbreakable under normal conditions. Measures inside, outside, step and depth, metric and inch to 0.1 mm or 1/64". Capacity is 13 cm.

75% of actual size

21 cm

No. 30087-20

Digital Electronic Caliper

Wide screen LED display with the ability to measure in millimeters, inches and fractions. Measures inside, outside, step and depth. Battery, spare battery and plastic storage case included.

70% of actual size

Stainless steel
23.5 cm

No. 30087-00

Castroviejo Surgical Caliper

Used for precise measurement during surgery.

0-20 mm with 0.5 mm divisions
Tip diameter: 0.5 mm
8.5 cm

No. 18000-35

Magnifying Loupe with Micrometer and LED

NEW ITEM

High quality loupe features a removable micrometer and ultra-bright LED lights surrounding the circumference for a defined image and clear contrast.

Magnification: 10x
Field of view: 30 mm
Working distance: 10 mm (without scale)
Illumination: Ultra-bright LED
38 x 38 x 40 mm

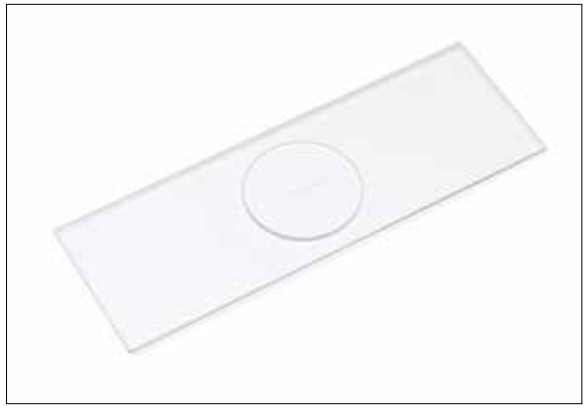
No. 29026-10

Large Scale Stage Micrometer

A precision glass scale suitable for calibration and measurement of large field stereo microscope images. Comes with 15x eyepiece and case.

50 mm with 500 divisions (0.1 mm)
80 x 25 mm
8 cm

No. 29026-00



Stage Micrometers

These are highly accurate stage micrometers for use with transmitted light in both compound and stereo microscopes. Comes with a plastic case.

76 x 26 mm

10 mm with 100 divisions (0.1 mm)
No. 29025-01

1 mm with 100 divisions (0.01 mm)
No. 29025-02

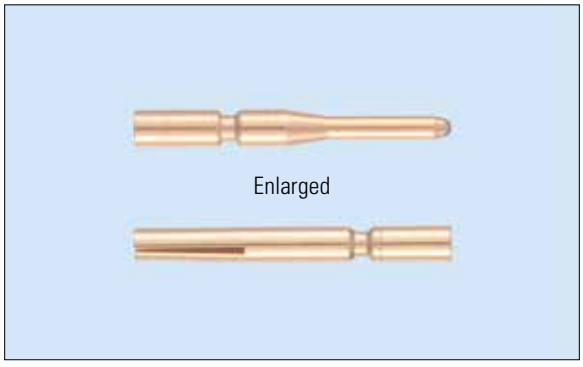
Gold Wire Contacts

Matching pin and socket. Contacts are crimp terminated, but also can be used for solder connections.

Total length: 16 mm (when connected together)
Diameter: 1.2 mm
Opening for wire: 0.63 mm

Pkg. of 50 male contacts
No. 19003-00

Pkg. of 50 female contacts
No. 19003-01



Electronic Stopwatch / Timer

Stopwatch: Counts up to 60 minutes then recycles automatically. Timer: Counts down from 100 minutes or any lesser preset time in minutes and seconds.

Not available in Europe.

LCD display: 2 x 5 cm
6.5 x 6.5 x 1.5 cm
AAA battery included

No. 27000-10

Electronic Clock / Triple Timer

Three activities can be timed up or down simultaneously or individually. Time can be displayed either in 12 or 24 hours and features a memory function. Maximum countdown time is 19 hours, 59 minutes, 59 seconds. Minimum time interval is 1 second. The timer housing includes a powerful magnet for mounting.

LCD display: 4.5 x 4.5 cm
7 x 8.5 x 1.5 cm
AAA battery included

No. 27000-01

Headband Magnifier

Precision ground and polished optical glass lenses. The padded headband is lightweight and fully adjustable. Can be worn with spectacles.

Headband magnifier shown with VisorLIGHT™ (sold separately).

Magnification: 2.5x
Working distance: 200 mm (8")

No. 28030-02

Magnification: 2.75x
Working distance: 150 mm (6")

No. 28030-03 MOST POPULAR

Magnification: 3.5x
Working distance: 100 mm (4")

No. 28030-04

VisorLIGHT™

Small, portable light source with 3.9 cm cord for attachment to headband. It comes with a battery pack that holds two AA batteries. Completely adjustable. Replacement bulbs are available upon request.

No. 28030-10

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Interchangeable Magnifier Headset with LED

Economical and fully interchangeable headband magnifier with LED light.

Includes:

- Glasses Frame with Adjustable Lens Holder
- Adjustable Head Strap
- Magnification Lenses (1x, 1.5x, 2x, 2.5x, and 3.5x) with a protective storage box
- 2 Super Bright White LED bulbs
- 3 AG10 Batteries

Magnification: 1x, 1.5x, 2x, 2.5x, and 3.5x
Field of view: Variable
Working distance: Variable

No. 28080-00

Can be used with or without the adjustable head strap (included).

Galilean Loupes

These loupes are lightweight and easy to use. Made from the finest optical coated lenses which deliver excellent clarity and high resolution. The loupes are mounted onto a strong yet flexible wraparound safety frame with a headband for stability and comfort. Ability to flip loupes up for use as safety glasses. Comes with mini screwdriver for fine adjustments, micro cloth, and storage case.

Magnification: 3x
Working distance: 400 mm (16")
Weight: 72 g

No. 28050-30

Magnification: 3.5x
Working distance: 300 mm (12")
Weight: 77 g

No. 28050-35

Eschenbach Magnifier Spectacles

These magnifier spectacles allow full adjustments on almost all parts. Headband keeps spectacles steady and in place. (Sold separately.) Leather case included.

Magnification: 2.5x
Working distance: 350 mm (14")
Weight: 70 g
Plastic frame reinforced with fiberglass

No. 28040-30

Spectacles Headband

Compatible with the Eschenbach Max Detail Spectacles (Item No. 28030-20) and Eschenbach Magnifier Spectacles (Item No. 28040-30).

Material: Neoprene

No. 28080-90

Eschenbach Max Detail Spectacles

These spectacles are portable, lightweight, and easily adjustable. Designed with frosted objective lens housing which eliminates distracting reflections. Bendable ear pieces for a secure, comfortable fit. Protective case is included.

Magnification: 2x
Field of view: 110 mm (4")
Working distance: 400 mm (16")
Weight: 49 g

No. 28030-20 MOST POPULAR

Max Detail Spectacles shown with Eschenbach Clip-On LED Light (sold separately).

Eschenbach Clip-On LED Light

A compact and lightweight light source with two high-performance SMD LED's and a lens that concentrates the light producing a more powerful, bright and homogenous field of view. Light can be set high or low. Compatible with the Max Detail Spectacles and Headband Magnifiers. Comes with 3 AA batteries and storage case.

Weight: 11 g
No. 28030-25

Optical Cleaning Kit

This convenient kit contains everything you need to clean lens surfaces safely. Perfect for microscopes, camera lenses, binoculars, telescopes, graphic art optics, and all other fragile lenses. Storage case included.

Kit includes:

- 1 Bottle of lens cleaner (30 ml)
- 1 Ultra soft duster brush
- 1 Cleaning cloth (20 x 20 cm)
- 3 Books of lens paper (25 sheets each)

No. 29000-10

Lens Paper

This premium grade optical lens tissue is extremely soft and safe for any glass or plastic optical lens surface.

15 x 10 cm

Book of 50 sheets
No. 29015-50

Eschenbach Scribolux Magnifier

This magnifier provides an illuminated platform suitable for any working condition. The open design allows for a spacious working platform. Supplied in a microfiber pouch for protecting and cleaning the lens.

Magnification: 2.8x
Diopter: 7/11D
Lens size: 100 x 75 mm
Lens shape: Aspheric
Working distance: 75 mm (3")
Lens material: PXM® lightweight lens with patented Ceratec® scratch-resistant coating
Illumination: Latest SMD LED technology
Power source: 4 AA batteries (included)

No. 28020-28

Flex Magnifier with LED

This desktop gooseneck LED lighted magnifier is a hands-free, flexible, and lightweight alternative to a dissecting scope. This magnifier is cost efficient and can be used with an AC wall adaptor or wireless with batteries. AC wall adapter sold separately.

Magnification: 2x/6x Mini Bifocal
Diopter: 2.9D
Lens size: 102 mm
Lens shape: Biaspheric
Working distance: Variable
Lens material: PMMA Acrylic
Illumination: Super Bright LED
Power source: 3 AA batteries (included)
or by AC Unit (Item No. 28011-00 or 28011-01)

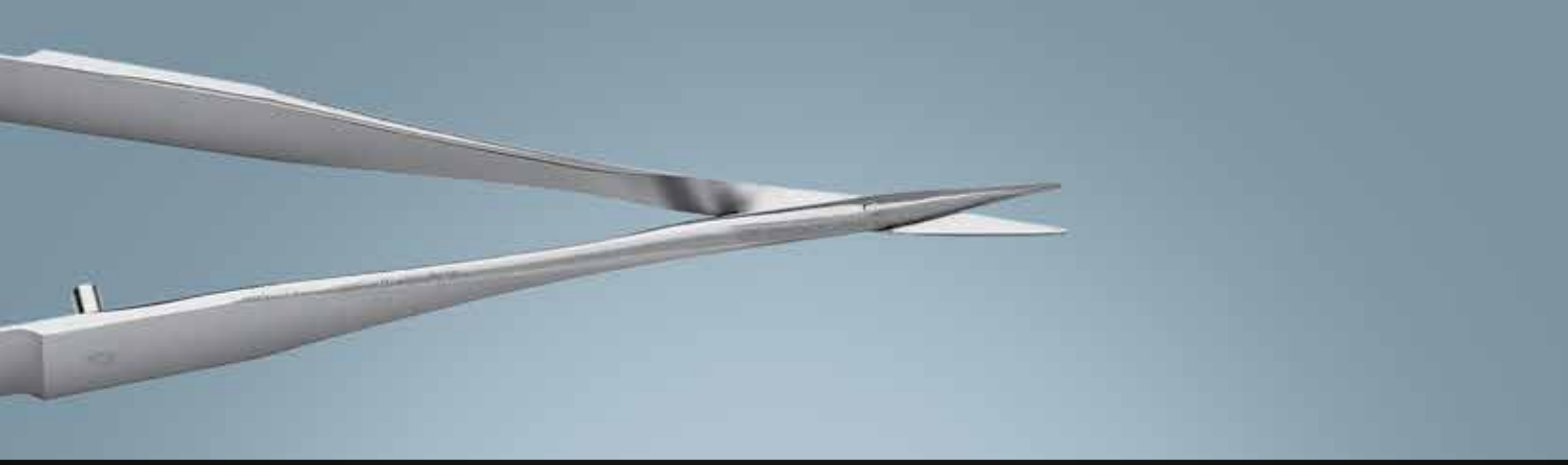
Magnifier	120V Wall Adapter	220V Wall Adapter
No. 28011-20	No. 28011-00	No. 28011-01

Eschenbach Vario Flex with LED

The Vario LED Flex ensures ease and precision by its smooth flexible neck and tiltable magnifying lens. This magnifier's innovative features provide a spacious working platform suitable for any application. Mounting clamp provides uncompromised workspace due to its sturdy, slim design. The magnification lens is illuminated with shadow-free full or half ring optimum bright LEDs.

Magnification: 2.5x
Diopter: 6D
Lens size: 76 mm
Lens shape: Aspheric
Working distance: Variable
Lens material: PXM® lightweight lens with patented Ceratec® scratch-resistant coating
Illumination: Latest SMD LED technology
Power source: 120V & 220V

No. 28015-25



Student Quality Instruments

Scissors	Pages	173 – 174
Vessel Dilator	Page	175
Forceps	Pages	175 – 177
Hemostat, Needle Holder, Pin Holder, Scalpel Handle & Retractor	Pages	178 – 179

Vannas Spring Scissors

Ideal for introductory courses in microdissection. The manufacturer, material and general pattern are the same as our No. 15003-08 but with much of the costly hand finishing omitted.

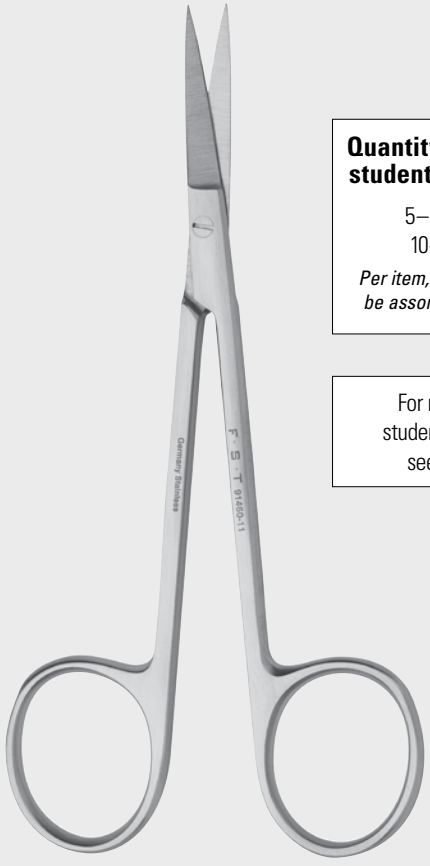
Cutting edge: 5 mm
Tip diameter: 0.35 mm
9 cm

Straight — No. 91500-09

Curved — No. 91501-09

MOST POPULAR

Fine Scissors



11.5 cm

Straight — No. 91460-11

Curved — No. 91461-11

MOST POPULAR

Quantity discount for student instruments:

5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

For more info on student instruments see page 187.

Surgical Scissors

90% of actual size

Sharp/Sharp

10.5 cm NEW ITEM
No. 91402-10

12 cm
No. 91402-12

14.5 cm
No. 91402-14

Sharp/Blunt

10.5 cm NEW ITEM
No. 91401-10

12 cm
No. 91401-12

14.5 cm
No. 91401-14

Blunt/Blunt

10.5 cm NEW ITEM
No. 91400-10

12 cm
No. 91400-12

14.5 cm
No. 91400-14

Lister Scissors

Longer blunt blade prevents damaging tissue underneath skin without losing the cutting line.

Angled to side
Blunt/Blunt
14 cm

No. 91413-14

Quantity discount for student instruments:

5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

For more info on student instruments see page 187.

Bone Scissors

For cutting fine bone.

Curved
Cutting edge: 9 mm
9 cm

No. 91604-09

Vessel Dilator

Angled 10°
Tip diameter: 0.5 mm
11 cm

No. 91815-11

Standard Pattern

Broad pattern with strong spring action.

Quantity discount for student instruments:

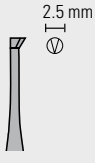
5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

Serrated

Tip width: 2.5 mm
11.5 cm
No. 91100-12

Tip width: 3.5 mm
16 cm
No. 91100-16



1x2 teeth

Tip width: 2.5 mm
12 cm
No. 91121-12

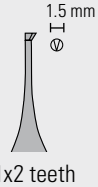
Adson

Wide, strong grip with narrow tips.

Tip width: 1.5 mm
12 cm

Serrated

No. 91106-12



1x2 teeth

No. 91127-12

Dumont #5

MOST POPULAR

Standard tip
0.1 x 0.06 mm
Inox
11 cm

No. 91150-20

Quantity discount for student instructions:

5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

For more info on student instruments see page 187.

Dumont #7

Standard tip
0.17 x 0.1 mm
Inox
11 cm

No. 91197-00

Quantity discount for student instruments:

5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

Fine Forceps Straight

0.2 x 0.1 mm
11 cm

No. 91115-10

Fine Forceps Broad Shanks

0.2 x 0.2 mm
12 cm

No. 91113-10

Fine Forceps Curved

0.2 x 0.2 mm
12 cm

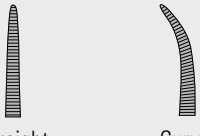
No. 91117-10

Fine Forceps Angled

0.2 x 0.2 mm
11 cm

No. 91110-10

Halsted-Mosquito Hemostat



Straight
12.5 cm

No. 91308-12

Curved
12.5 cm

No. 91309-12

Quantity discount for student instruments:

5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

For more info on student instruments see page 187.

Halsey Needle Holder

13 cm

No. 91201-13

For suture needles, see page 116 & 117.

STUDENT

Pin Holder

Nickel-plated
Jaw opening: 0-1 mm
7.5 cm

No. 91606-07

For pins, see page 107.

Quantity discount for student instruments:

5–9 = 5%
10+ = 10%

Per item, selection cannot be assorted for discount.

Standard Scalpel Handle #3

12 cm

No. 91003-12

For scalpel blades, see page 58.

Spring-Loaded Retractor

Curved atraumatic blades
Maximum spread: 3 cm
Blade dimensions: 14 x 10 mm
8.5 cm

No. 91706-05

Reference Pages

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Quality Control	Page	186
Student Line	Page	187
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Dumont	Page	189
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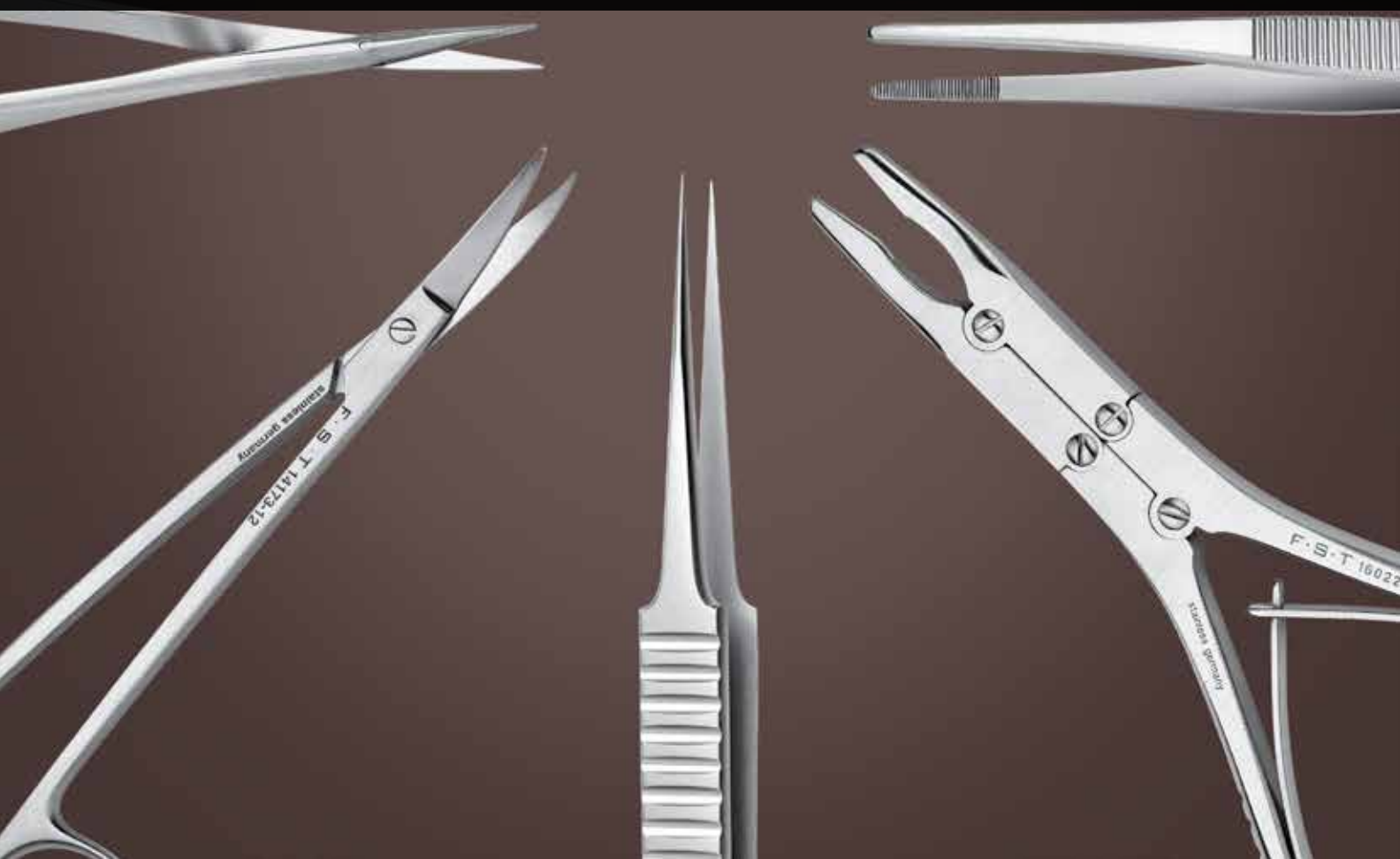
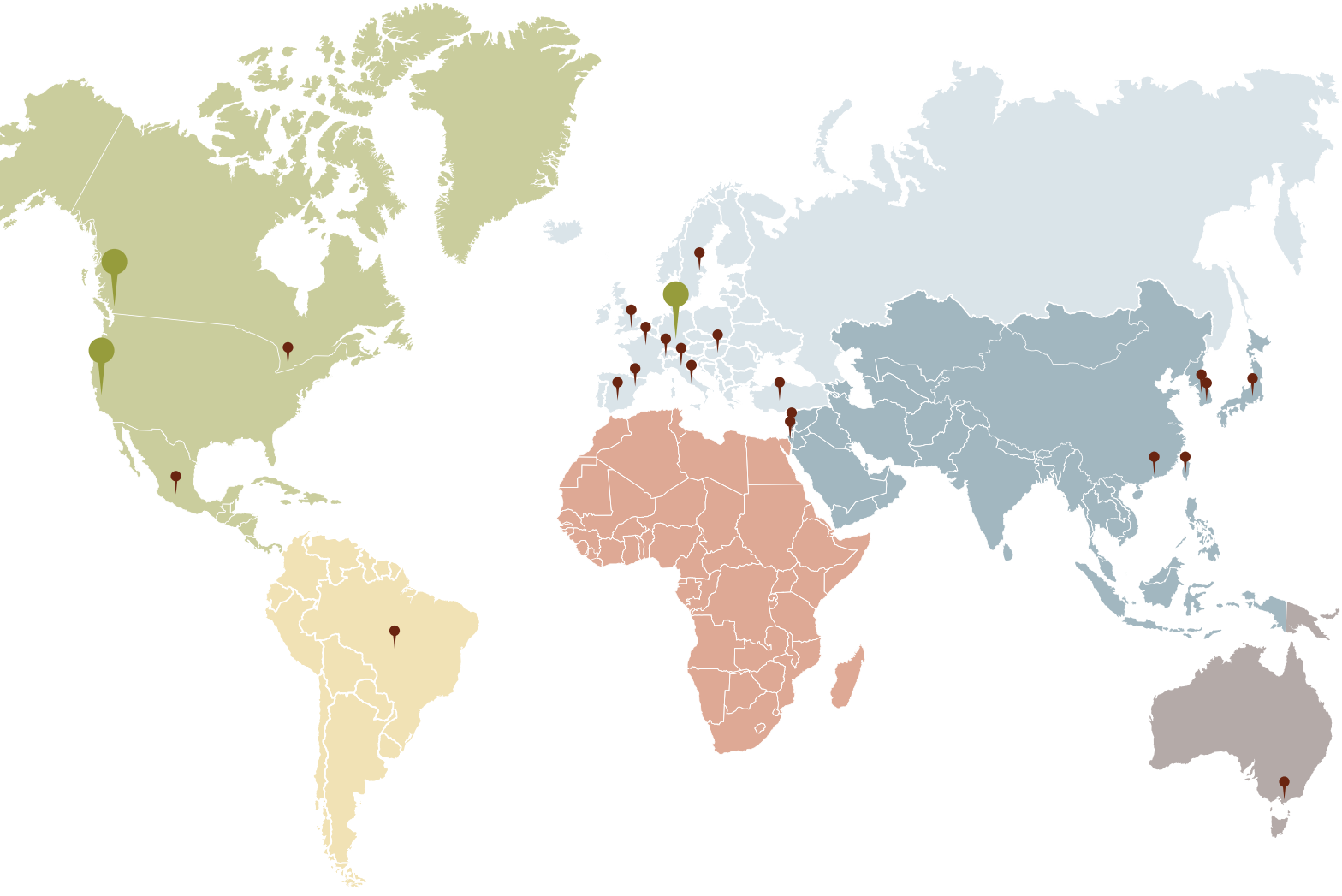
Additional Information	Page	200



Fine Science Tools Around the World

Commitment to excellence

For decades, we've demonstrated our commitment to excellence with genuine quality and a 100% satisfaction guarantee. As a result, our products continue to be the preferred instruments among scientists and biomedical researchers worldwide.



We have offices and dealers throughout the world and have been shipping globally since 1974.

Offices

finescience.com	USA
finescience.de	Europe
finescience.ca	Canada/International

Dealers

To see a complete list of Fine Science Tools dealers, please visit us at finescience.com/Dealers.

Does paying more for a pair of scissors really buy more value and a longer cutting life?

Pictured below is a scissors testing device used to compare various alloys and cutting edge styles. The scissors repeatedly cut through a continuous feed of cotton cloth, and a counter keeps track of the number of cuts made to evaluate when the scissors begin to show a decrease in cutting quality.

The results verify that the addition of various features dramatically increases the cutting life of the scissors. Most notably, the cutting life is more than doubled with the addition of ToughCut blades to stainless steel, and over six times longer with CeramaCut blades.

See the chart below for a comparison of four different scissors sold by FST.

The cutting life is more than doubled with the addition of ToughCut blades to stainless steel, and over six times longer with CeramaCut blades.

Alloy/Material	Lasts longer than stainless steel by:
Tungsten Carbide	1.9x
Stainless Steel with ToughCut	2.3x
Tungsten Carbide with ToughCut	4.1x
CeramaCut (Ceramic Coated Tungsten Carbide with ToughCut)	6.6x

See page 183 for more information on ToughCut, Tungsten Carbide and CeramaCut.

Tungsten Carbide

When you place heavy demands on your surgical instruments, be it scissors, needle holders, or forceps, you should consider the benefits of tungsten carbide, one of the hardest alloys available. Tungsten carbide scissors last almost two times longer than stainless steel, and needle holder tips can be made with a pyramid cross pattern that holds suture needles much more securely. Inlays are either glued or welded into place.

Compare the extra cost of these instruments with the length of useful wear and you have a cost effective solution for your instrument requirements. Tungsten carbide instruments are identified by their gold handles.

Scissors: pages 9, 20–21, 23, 30–32, 34 and 44
Forceps: page 84
Needle Holders: pages 111–115

Look for this symbol

TUNGSTEN CARBIDE

ToughCut® Scissors

ToughCut scissors feature two unique cutting edges that cut through the toughest tissue with exceptional ease and accuracy. One blade is honed to razor sharpness, and the other is micro-serrated to minimize tissue slippage during cutting. Scissors with ToughCut edges are identified by their black handles.

For ToughCut scissors that last almost two times longer, select ToughCut with tungsten carbide cutting edges.

Scissors: pages 6, 15, 20–21, 25, 30, 33–34

Look for this symbol

TOUGH CUT

Ceramic and CeramaCut® Instruments

One of the hardest materials on Earth, ceramic is used in surgical instruments to form edges that last longer than stainless steel and even longer than tungsten carbide. Ceramic also has a high slide capacity which reduces surface tension and results in a much cleaner cut than metal instruments. Our CeramaCut scissors combine ToughCut technology with tungsten carbide edges and a ceramic coating for one of the best, cleanest cutting scissors available on the market today.

CeramaCut Scissors: page 21
Ceramic Blades: page 52
Ceramic Coated Forceps: pages 63 and 69
Ceramic Coated Spring Scissors: pages 7 and 10

Look for this symbol

CERAMA CUT

Titanium

Titanium instruments are over 40% lighter than equivalent stainless steel instruments, with better flexibility and strength. Elemental titanium (Ti) is a very strong, lustrous, white metal with a specific gravity of 4.54. Titanium and titanium alloys readily form stable protective surface layers, giving them excellent corrosion resistance to saltwater, laboratory saline solutions, blood and other bodily fluids, oxidizing acids, alkalis and chlorides. Titanium is 100% nonmagnetic; a great benefit when working with nerves. Its inherent surface oxide film provides bactericidal and non-allergenic properties. Titanium alloys can be heated up to 440°C (824°F).

Scissors: pages 5 and 10
Forceps: pages 65, 69, 80, 86 and 90
Probes: page 102
Vascular Clamps: pages 132–133

Look for this symbol

·TITANIUM·

Cleaning, Sterilization, Maintenance, & Storage of Surgical Instruments

Proper care of your surgical instruments will improve their longevity and function. Below are different cleaning, sterilization, and maintenance processes to guide you through your techniques.

General Care & Maintenance

Guidelines to extend the life of your surgical instruments.

- Clean and thoroughly dry your instruments as soon as possible after each use, paying special attention to joints, hinges, and anywhere there is metal to metal contact.
- Handle your instruments delicately and with care.
- Use your instruments for their intended purpose.
- Store your instruments with tip protectors, and always place them so that they do not touch each other.

Cleaning

Fine surgical instruments should be cleaned immediately after use. Blood or saline solutions left on instruments for any length of time can quickly start corrosive action. Time, temperature, and agitation play important roles in the cleaning process. Time affects the efficiency of cleaning solutions as most are effective after a certain time period. Higher temperature cleaning solutions result in better cleaning. During manual or ultrasonic cleaning it is helpful to loosen any surgical reminisce. Before any of the below procedures, rinse your instruments under warm running water to remove all blood and tissue. Instruments can be cleaned manually or ultrasonically, but always:

- Use a neutral pH (pH 7) cleaning solution.
- Clean instruments in the open position to ensure a thorough and effective cleaning process.
- Use soft textile or paper cloths, soft plastic brushes made of nylon, or water spray guns.

Do NOT use steel wool, wire brushes, or scouring pads as these are abrasive to the instruments.

Manual Cleaning

- Make sure all instruments are visibly clean and free from stains, wiping them carefully to remove all blood and tissue matter.
- Rinse instruments thoroughly with distilled water, paying close attention to joints and hinges as these areas can accumulate unwanted material.
- Air dry your instruments completely and use a can of compressed air to blow out any water at the joints and hinges. Then store them only in clean and dry environments.

Ultrasonic Cleaning

Ultrasonic cleaning is the most effective cleaning method. The vibrating sound waves create micron-sized bubbles in the solution that grow with the alternating pressure. When the bubbles reach a particular size, they collapse creating a force that dislodges dirt and particles, even in the smallest of crevices.

- NOT recommended for delicate and micro instruments.
- Follow the manufacturer's guidelines for specific instructions and cleaning cycle times. Instruments should be processed for the full recommended cycle time.
- Place instruments in the open position in the ultrasonic cleaner.
  - Do NOT allow instruments with sharp blades to touch other instruments.
  - Do NOT place dissimilar metals (stainless, copper, chrome plated) in the same cleaning cycle.
  - Make sure all instruments are completely submerged.
- After the ultrasonic cleaning cycle is complete, rinse instruments thoroughly to remove all ultrasonic cleaning solution.
- Dry instruments thoroughly with a clean towel.
- Use a spray lubricant in the hinges to minimize the risk of corrosion and maintain functionality.

Sterilization

It is important that instruments are free from all traces of organic or other matter prior to sterilization.

Steam Sterilization/Autoclaving

The autoclave process utilizes moist heat (or steam) under pressure for sterilization. The steam used must be from distilled water and free of all impurities.

- Lubricate all instruments that have any metal to metal interaction such as; scissors, rongeurs, needle holders, hemostats, and retractors. Do NOT use WD-40 or other industrial lubricants.
- Instruments may be autoclaved individually or in sets.
  - Individual instruments: Disposable wraps or sterilization pouches are ideal. Make sure the pouch size is sufficient for the instrument to be in an open (unlocked) position.
  - Instrument sets: Open and unlock all instruments. Place the heavier instruments on the bottom of the set when two layers are needed.

IMPORTANT NOTE: Do NOT mix instruments of different or unknown alloys in the autoclave.

- Do NOT lock instruments during autoclaving. This will prevent the steam from reaching and sterilizing the metal to metal surfaces, and heat expansion during autoclaving can cause cracks in the hinge areas.
- Do NOT over load the autoclave chamber as this may hinder steam penetration.
- Place a towel on the bottom of the pan to absorb excess moisture during autoclaving. Make sure the towel has no detergent residue and is pH neutral if immersed in water.
- At the end of the autoclave cycle (before the drying cycle) unlock the autoclave door and open it slightly. Run the dry cycle for the recommended time period by the autoclave manufacturer.

Please note: If the autoclave door is fully opened before the drying cycle, cold air will rush into the chamber, which can cause condensation on the instruments. This will result in water stains on the instruments.

Hot Bead Sterilization

Recommended for speed and convenience when instrument tips or blade sterilization is required. The Hot Bead Sterilizer does not use dangerous gases, flames, or chemicals. Highlights:

- Bench top set up.
- Only 20 seconds of contact required to ensure your instruments are free of pathogens and microbial contaminants.
- Can be left on all day.
- Beads reach temperature of 240˚ - 270˚C (464˚ - 518˚F) within 15-20 minutes heating time.

Please see page 149 for more information on the FST Hot Bead Sterilizers.

Ethylene Oxide (ETO) Sterilization

This method is recommended for instruments that will not tolerate high temperatures or moisture (e.g., catheters, cannulae, etc.). This is a process consisting of 4 primary variables; gas concentration, humidity, temperature and time. Sterilization pouches and wraps available, see pages 148 and 152.

Storage

Surgical instruments should be properly stored in a clean and dry environment. It is highly recommended to use tip protectors and instrument cases to avoid possible damage to your instruments. Instrument tip protectors are available, see page 147. Instrument cases are available, see pages 152 – 155.

Oxidation (Rust)

All FST stainless steel surgical instruments are manufactured from medical grade stainless steel under strict European standards. It is very important to properly take care of your instruments to extend their lifespan.

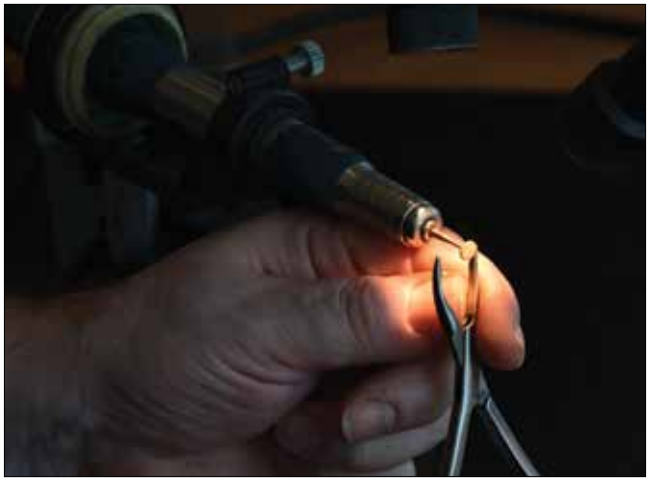
Although stainless steel is corrosive resistant, it can still rust or stain if handled improperly. Under unfavorable conditions instruments may oxidize because stainless steel that is exposed to physical, thermal, or chemical manipulations may lose some of its stainless properties.

Quality Control

The high quality of Fine Science Tools surgical and microsurgical instruments is the result of our relentless attention to detail. Almost every instrument we sell is manufactured by skilled European craftsmen, designed to exacting specifications made from the finest German stainless steel alloys, and forged from the strongest, lightest materials available, and tested to ensure precision performance and ergonomics.

We are dedicated to quality control, with technicians in our German office inspecting most FST instruments. Aside from checking instrument dimensions and specifications, we thoroughly inspect tip sharpness, cutting edges, springs, joints, and other various components. Only after passing our detailed inspections, instruments are approved and sealed with our "FST Inspected" sticker.

We are proud to guarantee all of our products with your 100% satisfaction. If, for any reason, you are not completely satisfied with your purchase, you may return it for a full refund.



FST Student Quality Instruments

One of the hallmarks of FST has always been to accurately assess the needs of our customers. We gather information not only from the lab, but from conferences, journals and researchers. Whether it is designing new tools or finding new applications for existing instruments, we believe our best information comes directly from you.

Our customers wanted reduced costs and quantity discounts without sacrificing the precision and quality inherent in German instruments. To meet their needs, we have developed a full line of "student" instruments. They were created for use in the classroom where students are learning proper instrument care.

Unlike our competitors, the quality of these instruments does not drop dramatically with the price. Our student line uses quality stainless steel and maintains the precision you expect from FST. In addition they carry our unconditional satisfaction guarantee while being offered at a significantly reduced price.

Not intended as a substitute for our highest quality instruments, the student line may require extra care as the alloys used are more susceptible to corrosion. All of our shipments come with an instruction pamphlet describing the use and care of surgical instruments. Visit our website at **finescience.com** for more information.

Features:

- Economy
- Quantity discounts
- Quality
- German craftsmanship
- Less hand finishing
- Less expensive alloys

We Proudly Stock

Fine Science Tools is proud to offer a large selection of left-handed surgical instruments to the research community. To find our left-handed instruments in this catalog, look for the "left-handed" icon on the pages below.

Scissors: pages 17, 29 and 161

Hemostatic Forceps: page 93

Needle Holders: pages 113-114

Ligation Aid: page 135

FST features a selection of scissors with larger than normal finger loops. Most of these loops are easily adjustable to fit larger fingers more comfortably. To find our large loop scissors please look for the "large loop" icon on the pages below.

Scissors: pages 19, 28 and 31

Fine Science Tools has noted which items are most frequently purchased for use in a variety of surgical procedures. To find our most popular items, look for the "most popular" icon throughout the catalog.

Fine Science Tools offers a wide selection of the latest and most popular Dumont forceps. Hand crafted in Switzerland for more than a century, these forceps are known for their consistent and uncompromised fineness. Dumont forceps come in a wide array of styles and alloys. On page 189, you will find detailed descriptions to help guide you in choosing the right Dumont forceps best suited for your needs.

Moria of France is one of the most respected and well known ophthalmic instrument manufacturers in the world, offering some of the finest surgical instruments in the industry for almost 200 years.

Only quality Swedish and German stainless alloys are selected; and many hours of highly skilled labor are put into the manufacturing process, which includes hand crafted sharpening, balancing, and polishing, often done under 40x magnification. Moria's product line includes scissors, spring scissors, forceps, spoons, vessel clamps, and more.

This Swiss manufacturer has established itself as one of the premier suppliers of superb microsurgical instruments worldwide. Unique designs, precise instrument balance, and optimum angles gives S&T instruments the "right feel" which is important for all procedures. S&T's product line includes forceps, needle holders, scissors, vessel clamps, sutures, vessel cannulation forceps, vessel dilators, and more.

Finding the Dumont forceps best suited for your needs:

DUMONT SWISSMADE

Alloys	Hardness	Magnetic	Temperature resistance	Autoclavable	Advantages
Titanium	Least Hard	No	Up to 430° C	Yes	Resistant to corrosion from nitric acid, chloride, and salt water. Titanium is 40% lighter than stainless steel.
Dumoxel	Hard	No	400° C	Yes	The most popular alloy available for Dumont forceps offers the best resistance to corrosion, sulphuric environments, hydrochloric acids, and all other mineral and organic acids.
Inox	Harder	Yes	400° C	Yes	Available for most Dumont forceps. Contains chromium added to carbon steel, which results in some loss of hardness but offers good stainless qualities and resistance to corrosion.
Dumostar	Harder	No	500° C	Yes	More durable and corrosion resistant than the best stainless steels. Highly resistant to mineral and organic acids, and salt water. Dumostar lasts an average of four times longer than Dumoxel and Inox. Most cost effective alloy for laboratory use.
Carbon	Hardest	Yes	N/A	No	Extremely hard; ensuring strong tips. Easily stains and rusts without proper care. **Carbon cannot be immersed in a water bath or sterilized.**

Tip profiles: Dimensions vary. See each style for specific dimensions (width x thickness).	
Standard	Made for high precision and consistently precise work under a microscope.
Biology	Twice as fine as "Standard Tips." Especially produced for high precision laboratory work under the microscope.
Super Fine Tips	Four times finer than the "Standard Tips." These tips are extremely delicate for the finest work under the microscope. Extra care is needed for these tips as they are very fragile.

Styles	
#2	Straight forceps with wide yet fine tips, referred to as Mouse Laminectomy Forceps because of their popularity in breaking off delicate bone from mouse skulls.
#2AP	Epoxy coated with flat wide blunt tips.
#3	Long straight forceps with coarse tips. Popular in low magnification procedures.
#3C	Shorter version of #3.
#4	Similar to the #5 but with broader shanks and stronger tips.
#5	Most popular style of Dumont straight forceps with fine tips which come in several styles.
#55	Similar to the #5 but with lighter shanks, giving the forceps a lighter spring action.
#5CO	Similar to the #55 but with even finer shanks producing the lightest spring action and longest meeting surface of any Dumont style.
#5L	Medical #5 forceps with slide sleeve for a secure hold and retention.
#5SF	The finest tips ever produced by Dumont.
#5XL	Extra Long #5 forceps.
#5/45	Tips angled at 45°.
#5/45C	Designed to pick up cover slips from multi-well plates.
#5/90	Tips angled at 90°.
#6	Sharply angled, broad tips.
#7	Most popular style of Dumont curved forceps with fine tips which come in several styles.
#7B	Curved serrated tips.
AA	Strong broad tips.
M	Mini forceps.
Medical	Denotes distinctive ribbed handle to maximize grip.
SS	Long and narrow shanks with thin tips.
WA	One piece design with no soldering grooves allows the forceps to be thoroughly and easily cleaned preventing biofilm residue.

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製 品 情 報

記載されております写真は実物大です。（ただし、一部縮小・拡大されております）

Dumont Forceps

■ Tips（先端部）

・Standard（スタンダード）…… 顕微鏡下での精密作業用に作られています。

・Biology（バイオロジー）…… 生物科学実験に適した精密ピンセット。Standardの1/2の細さです。

・Dumont's Finest Tips…… #5SF:11252- 00、#5:11254-20、#7:11274-20が最精密モデルです。

■ Tip Size（チップサイズ）…… 各ピンセットの先端の幅×厚みを記載しています。

■ Alloys（合金の種類）

・Carbon（カーボン）…… 硬く、酷使に耐えられます。非常に錆び易く磁気を帯びます。

・Inox（イノックス）…… カーボンスチールにクロムを加え耐蝕性を高めたもの。硬度はやや損なわれます。

・Dumoxel （デュモクセル）…… ステンレススチールの中で最高級の材質で、十分な硬度を有し最も人気のある材質です。磁化されません。

・Titanium（チタニウム）…… Inoxほど硬度はないが防錆、柔軟性にすぐれ、軽量で指が疲れにくく使いやすい材質です。100%磁化されず、430℃の高温に耐えられます。

・Dumostar（デュモスター） …… 最も防錆性、耐磨耗性、非磁性にすぐれ、金属疲労に強く500℃までの高温に耐えられます。

■ 硬度は Carbon ＞ Dumostar ＞ Inox ＞ Dumoxel ＞ Titanium の順です。

ToughCut
（タフカット）

Black Handle

皮膚を切る場合に適した刃を備えています。一方は鋸状刃で皮膚を逃がさず、もう片方の鋭いカミソリ刃でスムーズにカットできる為、普通のハサミより手が疲れません。

Tungsten Carbide
（タングステンカーバイド）

Gold Handle

合金の中でも特に硬度のある炭化タングステンを作業面に使用したことにより、耐久性に優れており、ステンレススチール製品と比較して、約2倍長持ちします。

****

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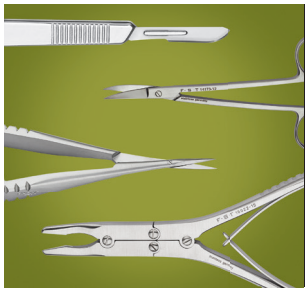

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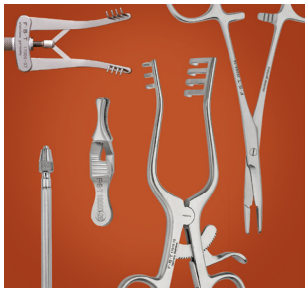

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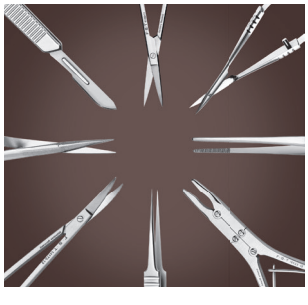

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