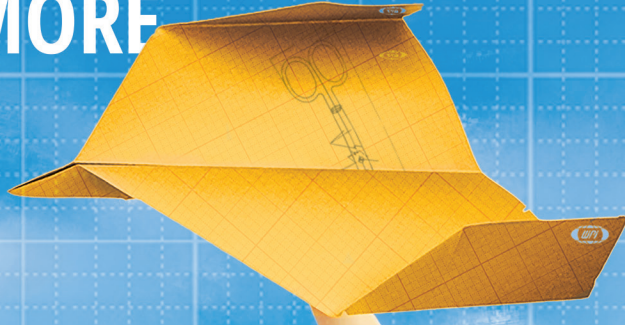




WORLD
PRECISION
INSTRUMENTS
Instrumenting scientific ideas

ANIMA LAB
animal facility and laboratory equipment • animal research models

SURGICAL INSTRUMENTS AND MORE



$l_1 = 130 \text{ mm}$

QUALITY, COST-EFFECTIVE
INSTRUMENTS
FOR WHEREVER
SCIENCE TAKES
YOU



55 mm



Let us Be Your Partner in Discovery

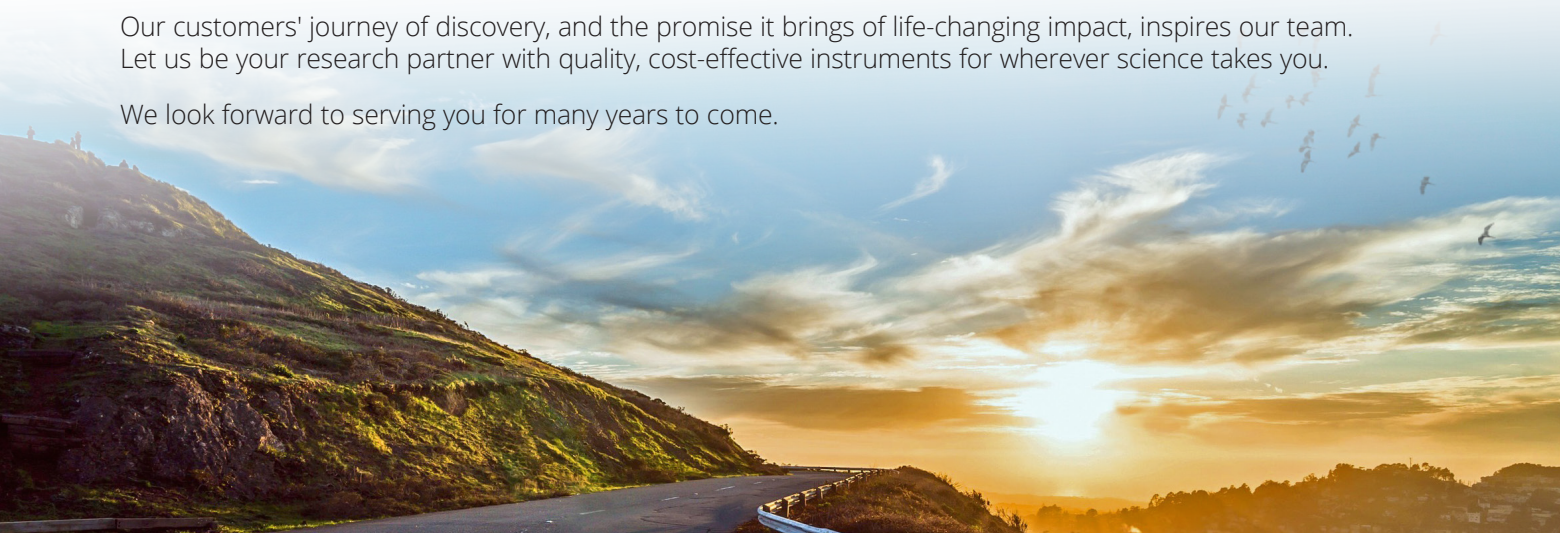


We are at the dawn of an exciting, new day of science—improving the lives of all humanity with breakthroughs like pheno-genomic testing and therapy. Daily, researchers like you are discovering new models, pathways and techniques which impact our health and our environment. These discoveries result in life-changing and, in many cases life-prolonging, therapies and revolutionary protocols. We are also working with researchers in monitoring the effects of the environment in our oceans and streams. New surgical instruments are being created to assist in specific surgeries and diagnoses. This year we have added a wide range of surgical instruments that will help you with microsurgies. For example, we have added a new line of tools specifically for work under a microscope. They are anti-reflective and are also modified with special tips to enable surgeries in arteries and veins.

At WPI, our solutions enable pioneers on the cusp of discovery to impact the quality of life for all of us for generations to come. WPI provides solutions for a wide range of disciplines, including electrophysiologist, molecular biology, cellular biology, surgical procedures and physiologists to advance the life science knowledge base. As researchers continue the quest for answers to life's mysteries, we provide the instruments to make laboratory research effective, reliable and reproducible. We aim to be your partner in the scientific adventure and instill confidence in your journey of discovery. We strive to understand your key application challenges and provide the instruments you need. We are listening. Your research methods and ideas, combined with our scientists and engineers, help us develop novel solutions for your work.

Our customers' journey of discovery, and the promise it brings of life-changing impact, inspires our team. Let us be your research partner with quality, cost-effective instruments for wherever science takes you.

We look forward to serving you for many years to come.



WHY USE WPI SURGICAL INSTRUMENTS FOR YOUR RESEARCH?

We strive to provide you with the best products and service at cost-effective prices

WPI is proud to offer you an extensive line of surgical instruments for all your research needs. Whether you are looking for a pair of fine German surgical scissors or marine grade stainless steel forceps, the quality of surgical instruments is backed by a replacement guarantee. We pride ourselves on the craftsmanship of our surgical instruments. No animal surgical laboratory is complete without the extras. Whether you are looking for an electrocautery unit, a microdrill or a new microscope, let us help you select the equipment that is right for your application. When price is an issue, our standard line is an excellent alternative to European made surgical instruments. You get the same quality craftsmanship at affordable prices. We guarantee it.



WPI Offers a 100% satisfaction guarantee on surgical instruments. If you are not satisfied with our surgical instruments, we will give you a full refund upon request within 30 days of purchase. Simply contact our return department at (866) 606-1974 x 253 for instructions. Then, return the product with a copy of the completed RMA form. There is no restocking fee.

In addition, we guarantee our instruments to be free from any material defects. If any defects are found, we will replace or repair the instrument, at our discretion, free of charge.

The one year warranty remains in effect for as long as the instrument or product is used for its intended purpose with proper care and maintenance.

APPLICATIONS

Neurosurgery • Ophthalmology • Pathology • Veterinary Science • Veterinary Dentistry • Veterinary Surgery • Veterinary Spay & Neuter • Electrosurgery • Microscopy • Horticulture

5

KITS

Physiology Kits • Mouse and Rat Kits • Student Kits • Vet Kits • Stereotaxic Kit • Zebrafish

39

SCISSORS

Spring Scissors • Titanium Scissors • Student Scissors • Ring Scissors • SuperCut Scissors • Tungsten Carbide Scissors • Tungsten Carbide SuperCut Scissors • Miscellaneous Scissors • Micro Intraocular Scissors

46

THUMB FORCEPS

Swiss Tweezers • Dumont Forceps • Vessel Cannulation Forceps • Dressing Forceps • Tissue Forceps • Miscellaneous Forceps • Round Hollow Handle Forceps • Micro Intraocular Forceps • Filter & Gel Forceps • Titanium Forceps • Student Fine Tweezers

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HEMOSTATIC FORCEPS

Hemostatic Forceps

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SCALPELS & KNIVES

Sapphire Knives • Miniature Blades • Scalpel Handles • Sterile Stainless Steel Scalpel Blades • Disposable Knives

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WOUND CLOSURE

Spring Handle Needle Holders • Titanium Needle Holders • Ring Handle Needle Holders • Skin Staplers • Clips & Clamps • Super Adhesives

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LABORATORY & SURGICAL ACCESSORIES

Ear Punches & Tags • Biopsy Punches • Swabs & Brushes • Catheters • Other Surgical Accessories • OmniDrill • Precision Surgical Microscope • Eye Speculums • Retractors • Hooks & Probes • Rodent Accessory • Brain Matrices • Lab Adhesives • Luer Kits • Precious Metals • Lab Glass

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SINGLE OR LIMITED USE INSTRUMENTS

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Dry Sterilizer • Ultrasonic Cleaners • Instrument Care Products • Sterilizing Baskets & Trays • Sterilizing Trays

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INSTRUMENT CARE & HANDLING

Guide to the Care and Handling of Surgical Instruments

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All specifications are subject to change.
For laboratory use only.

PRECISION IN YOUR HANDS



Our surgical instrumentation offering includes over 1,400 individual Instruments and 11 pre-assembled surgical-specific kits, which are designed for select surgical protocols.

We also offer researchers and veterinarian surgeons the opportunity to build custom surgical kits for their own needs.

TOP LINE SURGICAL INSTRUMENTATION

WPI's quality line of surgical instruments is made of German steel with German craftsmanship, and it is constructed to our exact specifications. To match the quality of our German line, our intermediate line of surgical instruments also goes through a proper passivation with electrolytical polishing. The quality material and craftsmanship used in this line gives you the performance you demand at an economical price.

THREE GRADES OF SURGICAL INSTRUMENTS

Premium—Our premium instruments, designated by the “Made in Germany” stamp, are constructed of corrosion-resistant 300 and 400 steel and can withstand repetitive use and sterilization. They are made to strict specification and subjected to high quality control inspection at several key points during the manufacturing process. The quality and technical specifications of all our German products meet the DIN9 58298/1-18 standard as defined by the Deutsches Institut für Normung, the German national organization for standardization.

Standard—Our intermediate line is made in Asia with German steel and German craftsmanship. These instruments are also made from corrosion-resistant 300 and 400 steel and can withstand repetitive use and sterilization. They are also made to strict specifications and subjected to high quality control inspection at several points during the manufacturing process.

Floor Grade/Disposable—Floor grade quality instruments are forged with recycled steel, with little attention to detail. These are offered in bulk packaging of 12 or more instruments at a steeply discounted price. This line is recommended for single use.

Surgical Accessories—WPI has a complete line of surgical accessories including wound closure, optical loupes, swabs, brushes, sterilizers and cleaners.

COST EFFECTIVE

We strive to provide you with quality instruments at cost effective prices so you get more for less.



CUTTING EDGE SURGICAL INSTRUMENTATION

WPI surgical instruments are produced with the finest quality materials to provide you with instruments of the highest precision.

STAINLESS STEEL (INOX)

Stainless steel is a generic name applied to a variety of alloys and grades which are comprised of carbon steel and chromium. Stainless steel alloys typically have good stain resistance. Because of the ferrous metals in the alloy, stainless steel exhibits a certain amount of magnetism. While stainless steel is more resilient than other metals, it is still subject to the effects of chemicals and environmental influences which can cause rust, corrosion and pitting.



Our stainless steel line of instruments are manufactured of the highest quality materials. They are made of austenitic 316 steel, commonly known as “surgical steel” or “marine grade steel.” The steel is highly corrosion resistant, and it is a common choice of material for biomedical implants. It is ASTM F138 compliant. This WPI line is an excellent alternative to premium German surgical instruments. The high-quality, corrosion-resistant instruments are available at a fraction of the cost of our premium German surgical instruments.

Inox stainless steel is well suited for medical purposes, because this stainless steel alloy has excellent corrosion resistance and good salt resistance. It is temperature resistant up to 400°C, and it can be autoclaved at 180°C.

DUMOXEL

Dumoxel steel is resistant to staining but slightly softer and less magnetic than stainless steel (Rockwell Hardness measurement of 36). Its higher resistance to corrosion results from the high content of molybdenum and chromium. It is highly resistant to sulphuric acid, hydrochloric acid and other mineral and organic acids. It is also autoclavable. Dumoxel instruments are more likely to bend than to break. The maximum temperature this material can withstand is 350°C.



DUMOSTAR

Dumostar steel is slightly resistant to metal fatigue, has great elasticity and is durable (Rockwell Hardness measurement of 62). It is resistant to mineral and organic acids and salt. It is also autoclavable. Unlike Dumoxel, Dumostar instruments are more likely to break than to bend. The maximum temperature this material can withstand is 550°C.



TITANIUM

Titanium instruments are completely stain-free, 40% lighter than regular stainless steel and completely non-magnetic. Titanium is a soft alloy used for surgical instruments (Rockwell Hardness measurement of 37). Titanium instruments may be used in a corrosive environment. They are autoclavable. The maximum temperature this material can withstand is 550°C.



BLACK COATED

Coating surgical instruments with a black ceramic adds a thin layer to the metal instrument, making the instrument harder and giving you greater precision. This anti-glare surface minimizes reflections off the surface of your instruments. The incredibly smooth coating improves the instruments' resistance to corrosion and minimizes friction. The ceramic coating is virtually impenetrable, because the raw material is bonded to the instrument both physically and chemically. These instruments are much more resilient to the pressure of daily use and chemical processing. Coated instruments last considerably longer.



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WORKING SMART

STERI-LITE MICROBEAD STERILIZER

Ideal for the sterilization of small research instruments, the chamber is filled with glass beads and heated up to 300°C. Eliminate bacteria, spores and other microorganisms. Chamber temperature is displayed on the large LED control panel and may be adjusted with the control knob.



AUTOCLAVES

The BioClave autoclave is extremely compact for benchtop applications of rapid, complete sterilization. It's built in water tank does not require connection to an external water supply. It is fully automatic. Just press START. This is the perfect autoclave for small scale sterilization of microdissection and veterinary instruments.



AURELIA® ROBUST™ BLUE NITRILE POWDER-FREE EXAMINATION GLOVES

- 5 mil thickness for improved puncture resistance
- Micro-textured finish for improved gripping action
- Finger Textured
- Non-sterile
- Nitrile Gloves
- Powder Free, Latex Free
- Blue
- Box of 100, 10 boxes per case



OPHTHALMIC KITS AND INSTRUMENTS

We offer kits for specific research and veterinary procedures. And we have over 100 ophthalmic instruments each sold separately.



CERAMIC COATED INSTRUMENTS

Our black instruments are coated with titanium nitride (TiN), an extremely hard ceramic material. The TiN coating hardens and protects the cutting edge. Ceramic coated anti-reflective instruments are perfect for microscopy and microsurgical applications. Coating surgical instruments with a black ceramic adds a thin layer to the metal instrument, making the instrument harder and giving you greater precision. This anti-glare surface minimizes reflections off the surface of your instruments. The incredibly smooth coating improves the instruments' resistance to corrosion and minimizes friction. The ceramic coating is virtually impenetrable, because the raw material is bonded to the instrument both physically and chemically. These instruments are much more resilient to the pressure of daily use and chemical processing. Coated instruments last considerably longer.



PREMIXSLIP® INSTRUMENT LUBRICANT AND RUST INHIBITOR

A ten minute soak with PreMixSlip keeps surgical instruments looking new. Premixslip is a non-sticky, non-toxic, silicone-free and water soluble mineral oil lubricant that can withstand the high temperatures of autoclaving without becoming gummy.



ENDOZIME ENZYMATIC DETERGENT

Endozime (WPI #WP34521) is a multi-tiered enzymatic detergent with advanced proteolytic action and Rust inhibitors. Endozime AW® was designed for customers who are susceptible to allergic reactions when using cleaning chemicals containing dye. Its proprietary formulation removes all soil and inhibits rust.



SURGISTAIN RUST AND STAIN REMOVER

Surgistain® removes rust, spots and stains from surgical Instruments. Surgistain® will help maintain the life and efficiency of your instruments and reduce repair and replacements costs.



STERILIZATION TRAYS AND BASKETS

With top quality structural integrity, these trays are ideal for the handling and storage of all standard microdissection and surgical instruments. The unique "grid" design of the base makes it easy to install the silicone finger mats required to protect the delicate instruments. They have burr-free edges, and we offer a large selection to fit your needs.



DISSECTABLE™ DISSECTING BOARD

The Dissectable™ Dissection Board is a new and unique approach that makes this dissecting board more convenient than any other found on the market today. Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without bending.



DISPO DISSECTING BOARD

Disposable boards offer a clean, safe, efficient way of handling infectious tissue specimens.

- White, cut-resistant boards with dimensional scales
- Reversible, printed on both sides
- Disposable
- Extruded co-polymer resin boards



START CREATING YOUR OWN KIT IN THREE EASY STEPS

ONE

Building your kit that contains just the right combination of the supplies you need is now even easier. Start by choosing the right sterilization container you need. There are several choices in this brochure or choose one of over 300 trays which are available online. (www.wpiinc.com/sterilizationtrays)



TWO

Choose only the instruments you need and save. See the suggestions in this brochure or visit us online to choose from over 1400 items. (www.wpiinc.com/surgicalinstruments)



THREE

Call or email our friendly customer service representatives and place your order. Real people answer the phones Monday through Friday, 8:00 AM to 5:00 PM EST, except holidays. (866) 606-1974 wpi@wpiinc.com



MAKE IT YOUR OWN

Spend your time wisely and increase your efficiency. WPI is offering you the opportunity to customize your kit with the instruments you need.

*"WE MUST USE TIME CREATIVELY."
Martin Luther King Jr.*

CUSTOMIZE IN ALMOST NO TIME

Our surgical instrumentation offering includes over 1,400 individual Instruments and 11 pre-assembled surgical-specific kits, which are designed for select surgical protocols. We also offer researchers and veterinarian surgeons the opportunity to build custom surgical kits for their own needs.

PICK-N-SAVE

Choose 3–5 instruments and save **5%**.

Choose 6–10 instruments and save **10%**.

Save even more when you order more than **10 instruments**. Call your application specialist for a personal quote.

We empower your passion for life science advancement with application based products.

PART# DESCRIPTION

Sterilization Trays

WP-4610	Wire Basket, side perforated, 240 x 120 x 30 mm
WP-4611	Wire Basket, side perforated, 240 x 120 x 50 mm
WP-4612	Wire Basket, side perforated, 240 x 120 x 60 mm
WP-4608	Wire Basket, side perforated, 240 x 120 x 70 mm
WP-4609	Wire Basket, side perforated, 240 x 120 x 100 mm
WP-4607	Wire Basket, side perforated, 240 x 250 x 30 mm

Spring Scissors

503308	Student spring scissors, blunt/blunt, curved
503309	Student spring scissors, blunt/blunt, straight
503310	Student spring scissors, sharp/ball, straight
503222	Wescott student scissors, blunt tips
503223	Wescott student scissors, sharp tips
501777	Vannas student scissors, 9cm, straight
501930	Vannas student scissors, 9cm, curved
503749	McPherson vannas student scissors, blunt

Ring Scissors

14218	Iris scissors, SuperCut, 10cm, straight
14219	Iris scissors, SuperCut, 10cm, curved
501758	Iris scissors, 11.5cm, straight
501759	Iris scissors, 11.5cm, curved

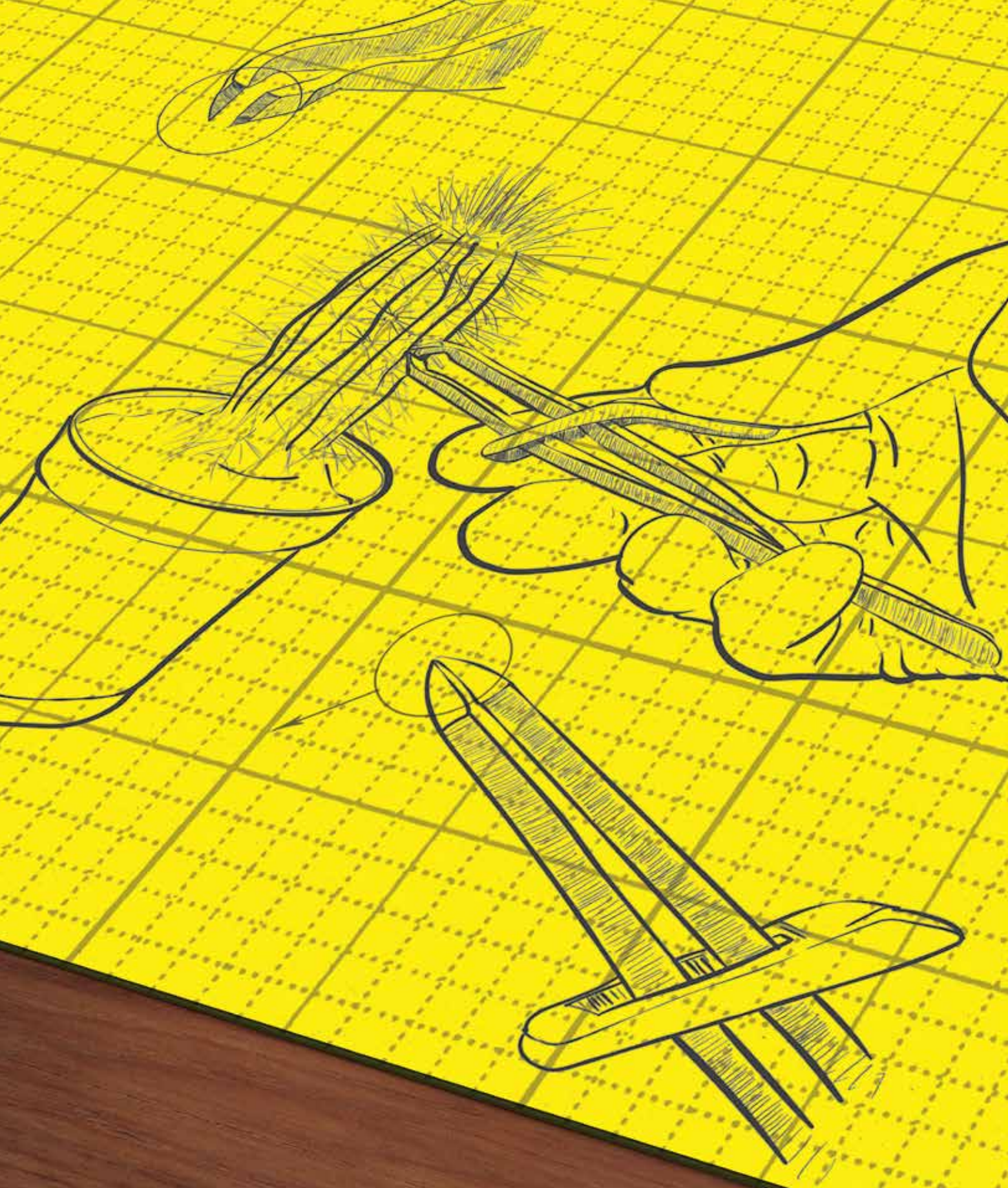
Forceps/Tweezers

15914	Iris forceps, 10cm, 0.8mm, serrated, straight
15915	Iris forceps, 10cm, 0.8mm, serrated, curved
15917	Iris forceps, 10cm, 0.8mm, 1x2 teeth, curved
501974	Student tweezers #1, 11cm, 0.45x0.55mm tips
501975	Student tweezers #2, 11cm, 0.4x0.55mm tips
501976	Student tweezers #3, 11cm, 0.2x0.4mm tips
501977	Student tweezers #3C, 11cm, 0.4x0.45mm tips
501978	Student tweezers #4, 11cm, 0.4x0.45mm tips
501979	Student tweezers #5, 11cm, 0.4x0.45
501980	Student tweezers #6, 11cm, 0.4x0.5mm tips, 90°
501981	Student tweezers #7, 11cm, 0.4x0.5mm tips, curved

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APPLICATIONS

MICRO SCISSORS

MICRO TIJERAS
MIKROSCHEREN

MICRO FORBICI
MICRO TESOURA

ABERTURA DA PAGNA

MICRO INTRAOCULAR SCISSORS

- 14 cm (5.5 in.) Long
- Stainless Steel

500372 25° Angled Blades
500372-T 25° Angled Blades, Titanium Handle
500374 35° Angled Blades



Smallest tip in the world!



500372



500374



VANNAS SCISSORS

- Super Fine
- 8 cm (3.1 in.) Long
- 3 mm Blades
- 0.015 mm Tips
- Stainless Steel

501778 Straight
501839 Curved



501778



501778



501839

VANNAS TUBINGEN SCISSORS

- 8 cm (3.1 in.) Long
- Straight
- 0.3 mm Tip
- 5 mm Blade
- Stainless Steel with Ceramic Coating

504488 Straight
504499 Curved



504488



504488



504499

MCPHERSON-VANNAS SCISSORS

- 7 cm (2.75 in.) Long
- 3 mm Blades
- 0.1 mm Tips
- Stainless Steel

14177 Straight
501233 Curved



14177



501233

14177

SUPER FINE VANNAS SCISSORS

- 8.5 cm (3.3 in.) Long
- 7 mm Blades
- 0.025 x 0.015 mm Tips
- Stainless Steel

500086 Straight
501232 Curved



500086



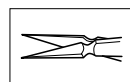
501232

500086

VANNAS SCISSORS

- 9 cm (3.5 in.)
- 5 mm Blades
- 0.1 mm Tips
- Straight
- Stainless Steel

14003 Standard
14003-G German



14003

Standard and German versions may differ slightly in appearance.

INSTRUMENTS FOR CRANIAL OPENING

INSTRUMENTS POUR L'OVERTURE DU CRÂNE
STRUMENTI PER L'APERTURA DEL CRANIO

INSTRUMENTOS PARA ABERTURA CRANEANA
INSTRUMENTE FÜR SCHÄDELÖFFNUNG

CORNEOSCLERAL PUNCH

- 8 cm (3 in.) Long
- 2 mm wide blade
- Stainless Steel

500079 Corneoscleral Punch

SEE PAGE 132



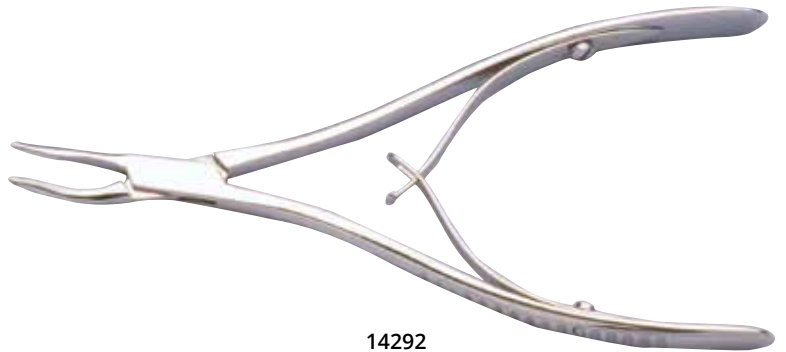
500079

MICRO FRIEDMAN RONGEUR

- 15 cm (5.9 in.) Long
- Stainless Steel

501332 0.8 mm Tip
501333 1.0 mm Tip
14292 1.3 mm Tip
14292-G 1.3 mm Tip, **German**

Standard and German versions may differ slightly in appearance.



14292

VESSEL CLIPS

CLIPS DE ANEURISMA

CLIPS POUR ANEURISME

ANEURYSMEN UND GEFÄßCLIPSE

For temporary obstruction of blood flow. Ideal for small animal vessels.



SEE PAGE 122

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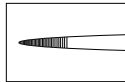
DISSECTING FORCEPS

PINCES À DISSECTION
PINZAS PARA PREPARACIONES

PINZE PER PREPARAZIONE
PRÄPARIERKLEMMEN

DRESSING FORCEPS

- 12.5 cm (5 in.) Long
 - 0.35 x 0.10 mm Serrated Tips
 - Straight
 - Stainless Steel,
- 15908** Dressing Forceps



15908

MICRO TWEEZER

- 15 cm (6 in.) Long
 - Serrated
 - Angled Tips
 - **German**
 - Stainless Steel
- 501727-G** Micro Tweezer



501727-G

WPI SWISS TWEEZERS

- 11.5 cm (4.5 in.) Long
 - 0.18 x 0.2 mm Curved Tips
 - Stainless Steel
- 504504** WPI Swiss Tweezers



504504

OTHER SUGGESTED INSTRUMENTS

504506.....	77	504498.....	88
14142.....	85	504479.....	90
504478.....	90	504481.....	88

For more suggestions, see pages 75-100.

DURA DISSECTORS

DISECADORES PARA DURA-MADRE DISSETORI PER DURAMADRE
DISSECTEURS À DURE-MÈRE DURA DISSEKTOREN

Used to isolate the dura from other tissue

DURA DISSECTOR

- 20 cm (7.9 in.) Long
 - Stainless Steel,
- 503336** Dura Dissector



HALLE DURA KNIFE

- 21 cm (8.3 in.) Long
 - Stainless Steel,
- WP1200** Halle Dura Knife



TONNIS DURA KNIFE

- 13 cm (5 in.) Long
 - Stainless Steel,
- WP1420** Tonnis Dura Knife



KIMURA SPATULA

- 16 cm (6.3 in.) Long
 - 2.5 mm Wide
 - 0.3 mm Thick
 - Stainless Steel,
- 504773** Kimura Spatula



GRAEFE HOOK

- 15 cm (6 in.) Long
 - Stainless Steel
- 503221** Graefe Hook



DOUBLE END PROBE AND SEEKER

- 15 cm (6 in.) Long
 - Sharp ends
 - Stainless Steel
- 504033** Double End Probe and Seeker



OTHER SUGGESTED INSTRUMENTS

501772..... 152 504061..... 151
 14136..... 151

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NEEDLE HOLDERS

PORTA-AGUJAS
PORTAGHI

NADEL HALTER
PORTE-AIQUILLES

A needle holder, also called needle driver, is a surgical instrument, similar to a hemostat, used by doctors and surgeons to hold a suturing needle for closing wounds during suturing and surgical procedures.

STEVENS NEEDLE HOLDER

- 13 cm (5 in.) Long
- 1 mm Tips
- Serrated
- Straight
- Stainless Steel,

14133 Stevens Needle Holder

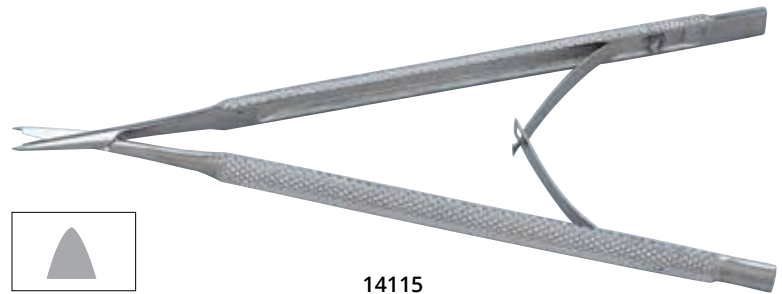


14133

NEEDLE HOLDER WITH SCISSORS

- 14 cm (5.5 in.) Long
- Straight
- 0.3 mm Smooth tips
- Round hollow handles
- Integrated scissors
- Stainless Steel,

14115 Needle Holder with Scissors



14115

MICRO CASTROVIEJO NEEDLE HOLDER

- 9 cm (3.5 in.) Long
- 0.5 cm Round tips with diamond dust
- Stainless Steel,

503376 Straight

503377 Curved



503376



503376

503377

ANIS NEEDLE HOLDER WITHOUT LOCK CVD

- Round handle
- 0.5 mm Delicate smooth tips
- Stainless Steel,

WP6036 Curved, 12 cm, with Lock

WP6037 Curved, 11.5 cm (no Lock)



WP6037



WP6036

WP6037

See other suggested instruments on pages 113-119

WORLD PRECISION INSTRUMENTS

www.wpiinc.com

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MICROINJECTION SYRINGE PUMP

Delivering picoliter volumes precisely

FEATURES

- Graphic display with SMARTouch™ touch screen controller for "intelligent," easy to use interface controlling up to four syringe pumps
- Splash proof touch screen
- User configurable mounting bar
- Dual mode motor drive
- Compatible with all UMP, UMP2 and UMP3 pumps
- Optional foot switch available
- 5 digit display

BENEFITS

- Accepts a wide variety of microinjection syringes
- Manual or automated injections
- Quiet operation for electrophysiology recordings
- Mounts directly on micromanipulator or stereotaxic frame
- Nominal injections down to 1 nL
- Rapid setup with intuitive touchscreen controller

APPLICATIONS

- Microinjection
- Neuroscience
- Microfluidics

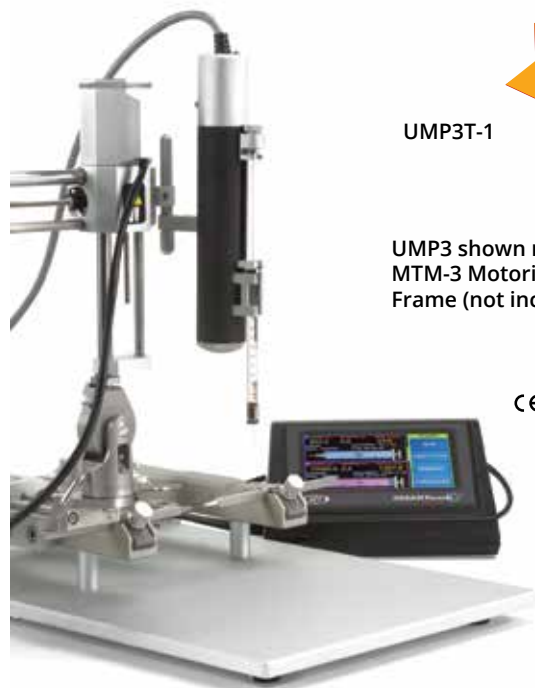
The UltraMicroPump 3 (UMP3) is a versatile pump which uses micro syringes to deliver picoliter to milliliter volumes. The pump is optimum for applications that require injections of precise and small amounts of liquid. With its touchscreen controller, UMP3 can displace as little as 0.53 µL/step (using 10 µL syringe with 60 mm scale length). The new SMARTouch™ controller for the UltraMicroPump features Patent Pending technology which includes:

- Total system calibration – Calibrate the syringe and the controller together as a system. This feature eliminates the variability of the syringes and delivers the calibrated volume.
- Smart smoothness – The controller can be set to automatically adjust microstepping according to the injection rate to deliver the smoothest flow.
- User defined travel limits – Set the limits for a specific syringe in the software. This prevents the pump from over-driving the plunger into the syringe, potentially causing syringe breakage.

The **MICRO2T** SMARTouch™ controller is feature rich. All operations are controlled through interactive touch screen. It has a graphical indication of the flow and the volume remaining in the syringe. It offers automatic end stop detection that is dependent on the syringe volume. You can control two pumps independently from one controller with its dual display. It also has automatic pump detection and a Pause/Resume feature that allows dosing during infusion/withdrawal. The volume accumulated is displayed on screen, as well as the percentage of volume left in the syringe. The SMARTouch™ controller is fully compatible with all earlier versions of the UltraMicroPump.

Low Fluid Dead Volume - Syringes may be filled externally and then inserted into the pump or filled while mounted in the pump. Fluids injected or withdrawn are held entirely within the micro syringe to maintain a low fluid dead volume.

Flexibility in Mounting - For positioning, the **UMP3** may be attached to any of several WPI micropositioners such as the **M3301** (manual), **DC3001** (motorized) or any manual stereotaxic manipulator.



UMP3T-1

UMP3 shown mounted to the MTM-3 Motorized Stereotaxic Frame (not included).

CE

MTM-3

Rapid Setup with Intuitive Touchscreen Controller

- An integral component in the **UMP3** system is the SMARTouch™ touchscreen controller, which provides an "intelligent" and easy-to-use interface to up to four (or two) syringe pumps. Operating parameters are set with the touchscreen panel. You can save your parameters for instant recall. An optional footswitch offers "hands free" start/stop operation.

Computer Control—A USB port on the rear of the controller can be used to connect it to a computer for scripted protocols.

NOTE: UMP3 accepts glass syringes with barrel diameters from 5.5 to 9 mm.

ULTRAMICROPUMP SPECIFICATIONS (based on 10 µL syringe)

NORMAL MODE

TRAVEL	62 mm
MINIMUM DISPENSING VOLUME	0.58 nL / step (10 µL syringe)
LINEAR MOTION PER STEP	3.175 µm/half step
WEIGHT	325 g (11.5 oz.)
MOUNTING ROD DIAMETERS	7.9 mm (0.31 in.)
MAINS POWER SUPPLY	90-264VAC @ 47-63Hz
DIMENSIONS	32 mm x 190 mm (1.3 in. x 7.5 in.)

MICROSTEPPING MODE

Precision is increased eight-fold

UMP3T-1	UltraMicroPump 3 (one) and Micro2T Controller
UMP3T-2	UltraMicroPump 3 (two) and Micro2T Controller
UMP3	UltraMicroPump 3 (without controller)
MICRO2T	SMARTouch Controller, Two-Channel
OPTIONAL ACCESSORIES/REPLACEMENT PARTS	
13142	Footswitch for Micro2T*
502201	V-Clamp for Stereotaxic Frame
503301	Extension Cable, Mini DIN (male-female) 10 ft.
503207	Small Base Stand and Clamps

***13142** is the foot pedal for use with the MICRO2T ONLY. It is not compatible with the old **MICRO4** controller, which uses the **15867** foot pedal. The two foot pedals are not cross-compatible.

WORLD PRECISION INSTRUMENTS

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HOOKS

Surgical grade hooks are designed for use as probes for dissection and to manipulate small pieces of tissue during surgical procedures.

HALVESTON "TEASER" HOOK

- 12.4 cm (4.9 in) Long
- Stainless Steel

504061 Halveston "Teaser" Hook



504061

TYRELL HOOK

- 13 cm (5 in) Long
- Sharp/micro
- Stainless Steel

14136 Tyrell Hook



14136

ENGEL TENOTOMY HOOK

- 13 cm (5.1 in) Long
- Double prongs with sharp tips
- Stainless Steel

504021 Engel Tenotomy Hook



504021

GRAEFE HOOK

- 15 cm (6 in) Long
- Stainless Steel

503221 Graefe Hook



503221

SURGICAL SPOONS

Surgical spoons or scoops are used for scraping or debriding tissue. A surgical spoon, curette or excavator can be used to remove pathologic tissue. A dental curette is used to scrape a carious cavity prior to a filling.

PERFORATED SPOON

- 15 cm (5.9 in.) Long
 - Bowl diameter 20 mm (0.8 in.)
 - Stainless Steel,
- 501997** Perforated Spoon



501997

WELLS ENUCLINATION SPOON

- 14 cm (5.5 in.) Long
 - Stainless Steel
- 503762** Wells Enucleation Spoon



503762

PATON SPATULA AND SPOON

- 14 cm (5.5 in.) Long
 - Stainless Steel
- 504022** Paton Spatula and Spoon



504022

CULLER LENS SPOON

- 13 cm (5.1 in.) Long
 - Stainless Steel
- 503760** Culler Lens Spoon



503760

BUNGE EVISCERATION SPOON

- 13.5 cm (5.3 in.) Long
 - Stainless Steel
- 503761** Bunge Evisceration Spoon



503761

SPATULAS

PATON SPATULA AND SPOON

- 14 cm (5.5 in.) Long
- Stainless Steel

504022 Paton Spatula and Spoon



504022

HALVESTON TISSUE RETRACTOR

- 12.5 cm (4.9 in.) Long
- Thin, curved blade, 7 mm
- Stainless Steel

503759 Halveston Tissue Retractor



503759

KIMURA SPATULA

- 16 cm (6.3 in.) Long
- 2.5 mm Wide spatula
- 0.3mm Thick
- Stainless Steel

504773 Kimura spatula



504773

CURETTE

MEYHOEFER CURETTE

- 13 cm (5.1 in) Long
- Stainless steel

504769 Size 2 (2.25 mm Spoon Diameter)

504771 Size 4 (3.5 mm Spoon Diameter)

504770 Size 3 (2.5 mm Spoon Diameter)

504772 Size 0 (1.5 mm Spoon Diameter)



504769

504769

504770

504771

504772

KIMURA SPATULA

- 16 cm (6.3 in.) Long
- 2.5 mm Wide spatula
- 0.3 mm Thick
- Stainless Steel

504773 Kimura spatula



504773

504773

RETRACTORS

DESMARRES LID RETRACTOR

- Flat serrated handle
- 14 cm (5.5 in.) Long

WP108200 Size 0: Blade 11 mm wide

WP108220 Size 1: Blade 13 mm wide

WP108230 Size 2: Blade 15 mm wide



WP108230

WP108200

WP108220

WP108230

KNIVES

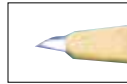
MICROSURGICAL KNIFE

- 13.5 cm (5.25 in) Long
- 15° Blade
- Disposable
- Package of 6

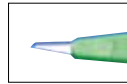
501731 3 mm Blade
500249 5 mm Blade



501731



501731



500249

DISSECTING KNIFE

- 13 cm (5.1 in) Long
- 1 mm Blade
- Right angle
- Stainless steel

14135 Dissecting Knife



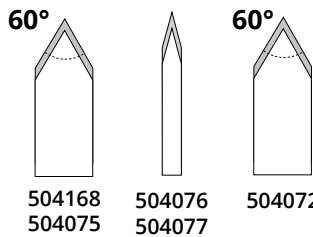
14135



SAPPHIRE BLADE

- 0.20 mm Thick
- Double-edge lance
- Handle sold separately

504077 1.0 mm wide
504076 0.5 mm wide
504072 0.75 mm wide, 60° Angle
504075 2.80 mm wide, 60° Angle, Elbow
504168 2.80 mm wide, 60° Angle, Elbow



504077

TITANIUM HANDLE FOR SAPPHIRE BLADES

- 13 cm (5.12 in) Long
- Retractable
- Use with Sapphire Blades 504074, 504075 and 504168
- Blades sold separately
- Titanium,

501811 Titanium Handle for Sapphire Blades



501811

OTHER SUGGESTED KNIVES AND BLADES

500250.....	111	507074.....	108
504073.....	107	501250.....	108

WORLD PRECISION INSTRUMENTS

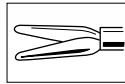
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FORCEPS

MICROINTRAOCULAR FORCEPS

- 14 cm Long
- 2.5 x 0.3 x 0.25 mm Jaws
- Stainless Steel

500373 Microintraocular Forceps



500373

STRAIGHT FORCEPS

555827L Perone Lasik Forceps, 10.8cm (4.25") Long, 2mm OD rings, Titanium



555827L

SCISSORS

TENOTOMY SCISSORS

- Commonly used in ophthalmology, neurology and plastic surgery
- One serrated blade prevents slippage
- Beveled blade, rounded tips to avoid punctures
- Smooth and clean cuts—minimal tearing
- Stainless Steel

14220 12.5 cm, Straight
14220-G 12.5 cm, Straight, German
14221 12.5 cm, SuperCut, Curved
14221-G 12.5 cm, SuperCut, Curved, German
14395 10 cm, SuperCut, Straight
14395-G 11.5 cm, SuperCut, Straight, German



14220



14220



14221



14220

MICRO SCISSORS

- 12 cm Long
- Diamond coated blades

503364 Curved
503365 Straight



503364



503365

503364

OTHER SUGGESTED SCISSORS

14122-G	48	501263	73
14218	69	501263-G	73
14218-G	69	504487	70

SCISSORS

IRIS SUPERCUT SCISSORS

- One edge micro serrated, one edge honed to the sharpness of a knife edge—prevents tissue slippage
 - SuperCut
 - 12.5 cm (5 in.)
 - Straight
 - Stainless Steel,
- 14225** Iris Supercut Scissors



WILMER IRIS SCISSORS

- General procedure microdissection
 - 10.5 cm (4 in.)
 - 45° Angled Blades
 - Stainless Steel,
- 503248** Wilmer Iris Scissors



MAYO SCISSORS

- Robust configuration used to cut deep tissue and general dissection
 - 17 cm (6.75 in.) Long
 - Straight
 - Stainless Steel
- 501751** Mayo Scissors



OTHER SUGGESTED PATHOLOGY SCISSORS

501218.....	64	501758.....	64	503275.....	70
501222.....	64	501759.....	64	503276.....	71
501753.....	63	501752.....	67	501739.....	72
501747.....	65	14224.....	69		

WORLD PRECISION INSTRUMENTS

FORCEPS & HEMOSTATS

DRESSING FORCEPS

- Used to hold gauze and cotton during surgical procedures
- Used to pick up small objects or hold tissues or in any lab procedure
- Stainless Steel,

- 501217** 12.5 cm (5 in.), Serrated
- 500365** 30.5 cm (12 in.), Straight, Serrated Jaws
- 501727-G** 15 cm (6 in.), Serrated, Angled Tips, **German**

Standard and German versions may differ slightly in appearance.



501217



501217



501217-G



500365

REVERSE ACTION TWEEZER

- Used mostly where a high precision self-closing is needed
- Good for general lab applications, microscopy and assembly applications
- 16.5 cm (6.5 in.) Long
- 7.5 cm Tips
- 0.06 cm Jaw
- Stainless Steel

- 504501** Reverse Action Tweezer



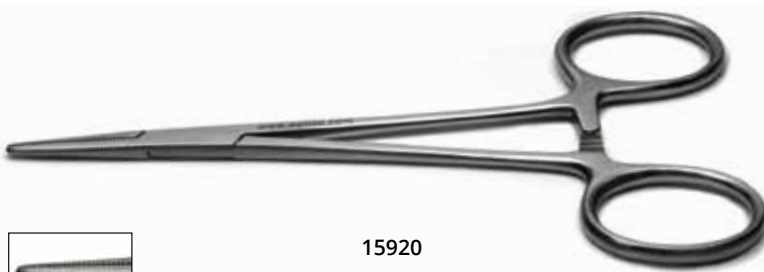
504501



HALSTED MOSQUITO HEMOSTATIC FORCEPS

- 12.5 cm (5 in.) Long
- Straight
- Standard
- Stainless Steel

- 15920** Halsted Mosquito Hemostatic Forceps



15920



OTHER SUGGESTED PATHOLOGY FORCEPS

500365.....	86	503283.....	86	503313.....	92
15908.....	86	503311.....	92	501727-G.....	86
15919.....	86	503312.....	92		

SURGERY

CIRURGIA

CHIRURGIE

CHIRURGIA

METZENBAUM SCISSORS

- Carbide is a harder metal than stainless steel and will retain its sharpness longer.
- 17.75 cm (7 in.) Long
- **Tungsten Carbide** blades
- Curved
- Stainless Steel

501745 Metzenbaum Scissors



501745

METZENBAUM SCISSORS

- 14.5 cm (5.7 in.) Long
- Curved
- Stainless Steel

501253 Metzenbaum Scissors

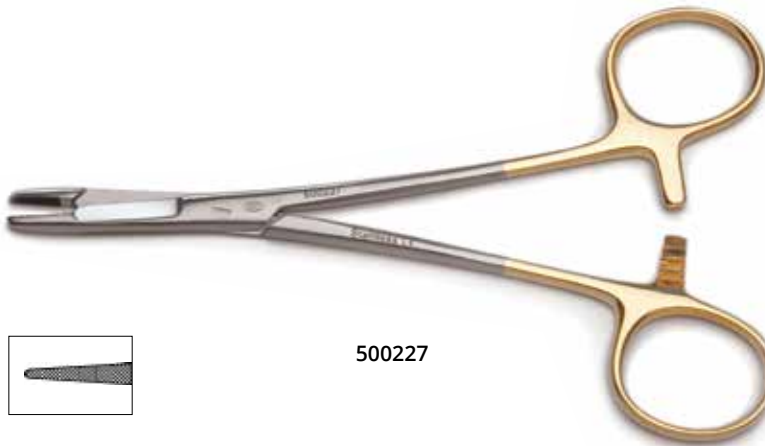


501253

OLSEN-HEGAR NEEDLE HOLDER WITH SUTURE SCISSORS

- 14 cm (5.5 in.) Long
- Serrated
- **Tungsten Carbide** jaws

500227 Olsen-Hegar Needle Holder With Suture Scissors



500227

IRIS SCISSORS

- 11 cm (4.3 in) Long
- Sharp tips
- SuperCut
- Straight
- One blade serrated and one honed to a razor edge
- Tungsten carbide insert blades
- Stainless steel

501263 Iris Scissors



501263

WORLD PRECISION INSTRUMENTS

MAYO SCISSORS

- 17 cm (6.75 in.) Long
- Curved
- Stainless Steel

501752 Mayo Scissors



501752

LISTER BANDAGE SCISSORS

- 15 cm (6 in.) Long
- 4 cm Blades
- Stainless steel

500444 Lister Bandage Scissors

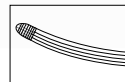


500444

ROCHESTER-CARMALT HEMOSTATIC FORCEPS

- 16 cm (6.25 in.) Long
- Curved
- Stainless Steel

501243 Rochester-Carmalt Hemostatic Forceps

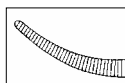


501243

HARTMAN MOSQUITO HEMOSTATIC FORCEPS

- 12.5 cm (5 in.) Long
- Curved
- Stainless Steel

15921 Hartman Mosquito Hemostatic Forceps



15921

FOR MORE SUGGESTED INSTRUMENTS, SEE: PAGES 101-105 (HEMOSTATIC FORCEPS)
 PAGES 46-75 (SCISSORS) PAGES 112-119 (NEEDLE HOLDERS)

ANIMAL TEMPERATURE CONTROLLER

Maintain optimal animal temperature during research procedures

FEATURES

- Animal Temperature Controller with Adaptive mode—auto adjust PID regardless of animal size
- Plate's internal temperature sensor prevents localized hot spots under animal with maximum temperature stability
- Compatible with RTD (resistive temperature device) and thermocouple probes
- Extremely quiet DC heater to facilitate electrophysiological recordings
- Three temperature sensor inputs
- Auto shutdown if the plate reaches 45°C

BENEFITS

- Low noise temperature control system
- Adapts to different size animals automatically
- Accepts RTD and thermocouple probes.

APPLICATIONS

- Small animal surgery
- Stereotaxic surgery



ATC2000

The **ATC2000** Animal Temperature Controller is a low-noise heating system for maintaining animal body temperature during experimental procedures. The DC heater is extremely quiet in terms of electromagnetic radiation. This is essential in electrophysiological recordings which are very sensitive to electromagnetic interference. The controller uses proportional, integral, derivative (PID) technology to provide precise and stable control of a subject's temperature. Compared with switched on/off type controllers, PID controllers provide a much more precise and stable control of temperature. The PID approach is also more immune to the variation of the experimental conditions such as change in animal size and unexpected disturbances. Our unique adaptive mode technology automatically senses and adjusts the PID values based on the size of the animal.

MULTIPLE TEMPERATURE SENSING INPUTS

The **ATC2000** has three temperature sensing inputs.

- The resistive temperature device (RTD) probe input can be used to monitor an RTD rectal probe to control the animal temperature or to monitor ambient temperature, induction chamber temperature or any other temperature.
- When using a thermocouple probe, the thermocouple (TC) probe input can be used just like the RTD input. (A T type thermocouple must be used.)
- The heater plate also has an internal temperature sensor. The ATC2000 monitors this sensor to prevent the localized hot spots under animal.

OPERATIONAL MODES

The controller has three operational modes:

- Normal mode uses the configured sensor (RTD or TC) or the plate sensor to drive the control loop.
- Adaptive mode uses the temperature of the heated plate and the temperature of the subject to control. This approach is less prone to overshoot, but somewhat slower than the normal mode, depending on the sampling rate used.
- Shutdown is a fail safe mode used if the plate temperature ever exceeds 45°C.

REQUIRED ACCESSORIES

The **ATC2000** is tuned at the factory. However, the PID parameters may also be set manually. The temperature resolution of the controller is 0.1°C. The rectal temperature probe has a 5 ft. ultra-flexible, shielded cable and an RTD sensor.

The metal heating plates (available separately) have built-in temperature sensors. The small heating plate (WPI#61840) is compatible with stereotaxic systems, the rigid, flat surface of the warming pads fits under the U-frame. Our homeothermic warming pads are washable with water and detergent.

A heating plate and a probe are required for use with this unit.



61840

ATC2000 Animal Temperature Controller

RECOMMENDED ACCESSORIES (SELECT ONE SENSOR AND ONE PLATE)

- 61800** Heating Plate with Built-In RTD Sensor, 15 x 25 cm
- 61830** Heating Plate with Built-In RTD Sensor, 15 x 10 cm
- 61840** Heating Plate with Built-In RTD Sensor, 15x4 cm*

*for Stereotaxic Frame

OPTIONAL ACCESSORIES/REPLACEMENTS

- 61824** RTD Rectal Temp Probe, 1.25 mm shaft 2.5 mm Ball Tip
- RET-2** TC Rat Rectal Temp Probe, 1 mm shaft, 3.2 mm Ball Tip
- RET-3** TC Mouse Rectal Temp Probe, 1 mm shaft, 1.6 mm Ball Tip
- 503573** Silicone Pad for ATC2000 (10 x 15 cm)
- MT-D** Needle Microprobe, 5 ft. cable
- IT-18** 0.025" Diameter Flexible Implantable Probe, 3 ft. cable
- IT-23** 0.009" Diameter Flexible Implantable Probe, 3 ft. cable
- IT-1E** 0.025" Diameter Flexible Implantable Probe, 3 ft. cable

WORLD PRECISION INSTRUMENTS

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PERIODONTAL SURGERY KIT

503447 Veterinary Periodontal Surgery Basic Kit, 11 instruments



503414 Double End Explorer, 18 cm (7 in.), Stainless Steel



503420 Orban Scaler, 18 cm (7 in.), Stainless Steel



503415 Periodontal Probe, 15 cm (5.9 in.), Stainless Steel



503421 Jacquette Scaler #1SSE, 18 cm (7 in.), Stainless Steel



503417 Ochsenbein 1 Chisel, 16.5 cm (6.5 in.), Stainless Steel



503422 Gracey Curettes #11-12, 18 cm (7 in.), Stainless Steel



503419 Kirkland Gum Knife #15/16, 17.5 cm (6.9 in.), Stainless Steel



503423 Scaler, Double-Ended #12, 18 cm (7 in.), Stainless Steel



503424 Gracey Curettes #13-14, 18 cm (7 in.), Stainless Steel



503406 Periosteal Elevator, 17 cm (6.7 in.), Stainless Steel
Double Ended: Rounded 5 mm Blade, Slightly Curved; 3 mm Spear Point



500236 Scalpel Handle #3, 13 cm (5 in.), Stainless Steel

For use with Sterile Stainless Steel Blades #10-15

SURGICAL EXTRACTION

These veterinary surgical instruments are designed for use in veterinary dentistry.

UNIVERSAL PLIER

- 15 cm (5.9 in.) Long
- Stainless Steel

503405 Universal Plier



RODENT MOLAR CUTTER

- 17.5 cm (6.9 in.) Long
- Stainless Steel

503441 Rodent Molar Cutter



EXTRACTING FORCEPS #65

- 19 cm (7.5 in.) Long
- Stainless Steel

503398 Extracting Forceps #65



EXTRACTING FORCEPS,

- 14.5 cm (5.7 in.) Long
- Small breed
- Stainless Steel

503397 Extracting Forceps



EXTRACTING UNIVERSAL FORCEPS #150 (CRYER FORCEPS)

- 17.8 cm (7 in.) Long
- Stainless Steel

503426 Extracting Universal Forceps #150 (Cryer Forceps)



ROOT ELEVATOR #28 RIGHT

- 15 cm (5.9 in.) Long
- Stainless Steel

503401 Root Elevator #28 Right



ROOT ELEVATOR

- 14.6 cm (5.75 in.) Long
- Stainless Steel

503427 Root Elevator



ROOT ELEVATOR #301

- 15 cm (5.9 in.) Long
- Stainless Steel

503402 Root Elevator #301



CRANE ELEVATOR, RIGHT

- 15 cm (5.9 in.) Long
- Stainless Steel

503404 Crane Elevator, Right



ROOT ELEVATOR #27 LEFT

- 15 cm (5.9 in.) Long
- Stainless Steel

503400 Root Elevator #27 Left



CRANE ELEVATOR, LEFT

- 15 cm (5.9 in.) Long
- Stainless Steel

503403 Crane Elevator, Left



RODENT DENTAL SPATULA

- 16.5 cm (6.5 in.) Long
- Stainless Steel

503440 Rodent Dental Spatula



ALBRIGHT FORCEPS

- 16 cm (6.3 in.) Long
- Stainless Steel

503395 Albright Forceps, Round Tips

503396 Albright Forceps, Sharp Tips



503395



503396

WORLD PRECISION INSTRUMENTS

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GENERAL SURGERY VETERINARY PACK

503407 This suggested kit for veterinary surgery includes 19 instruments plus a sterilization case.

For details on custom surgical kits, see page 4.



500236 #3 Scalpel Handle, 13 cm, Stainless Steel



501289 Snook Ovariectomy, 17.7 cm, Stainless Steel



500177 Brown-Adson Forceps, 12 cm, 7x7 Teeth, **Tungsten Carbide** Jaws



500023 Olsen Hegar Needle Holder with Suture Scissors, 14 cm, Stainless Steel



15921 Halsted Mosquito Forceps, 12.5 cm, Curved, Stainless Steel



501700 Backhaus Towel Clamps, 13 cm, Stainless Steel
4 included in General Surgery Pack



501241 Kelly Hemostatic Forceps, 14 cm, Straight, Stainless Steel

2 included in General Surgery Pack



501243 Rochester Carmalt Forceps, 16 cm, Curved, Stainless Steel

4 included in General Surgery Pack



503392 Sterilization Case, 28x18 cm



501751 Mayo Scissors, 17 cm, Straight, Stainless Steel



501253 Metzenbaum Scissors, 14.5 cm, Curved, Stainless Steel

SUGGESTED FELINE SPAY PACK

503409 This kit includes 19 instruments. Be sure to get a sterilization basket with your purchase.

For details on custom surgical kits, see page 4.



501241 Kelly Hemostatic Forceps, 14 cm, Straight, Stainless Steel

2 included in Deluxe Feline Spay Pack



501751 Mayo Scissors, 17 cm, Straight, Stainless Steel

2 included in Deluxe Feline Spay Pack



15920 Halsted Mosquito Forceps, 12.5 cm, Straight, Stainless Steel

2 included in Deluxe Feline Spay Pack



500236 #3 Scalpel Handle, 13 cm, Stainless Steel



501289 Snook Ovariectomy, 17.7 cm, Stainless Steel



501217 Dressing Forceps, 12.5 cm, Stainless Steel



V503382 Mayo-Hegar Needle Holder, 15 cm, Stainless Steel



501288 Kelly Hemostatic Forceps, 14 cm, Curved, Stainless Steel

2 included in Deluxe Feline Spay Pack



15921 Halsted Mosquito Forceps, 12.5 cm, Curved, Stainless Steel

2 included in Deluxe Feline Spay Pack



14226 Adson Brown Forceps, 12 cm, Stainless Steel



V503380 Jones Towel Clamp, 9 cm, Stainless Steel

3 included in Deluxe Feline Spay Pack



501998 Olsen Hegar Needle Holder, 15 cm, Stainless Steel

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SUGGESTED DELUXE CANINE SPAY PACK

503408

This kit includes 21 instruments. Be sure to get a sterilization basket with your purchase.

For details on custom surgical kits, see page 4.



500236 #3 Scalpel Handle, 13 cm, Stainless Steel



14226 Adson Brown Forceps, 12 cm, Stainless Steel



501217 Dressing Forceps, 12.5 cm, Stainless Steel



15920 Halsted Mosquito Forceps, 12.5 cm, Straight, Stainless Steel

2 included in Deluxe Canine Spay Pack



501241 Kelly Hemostatic Forceps, 14 cm, Straight, Stainless Steel

2 included in Deluxe Canine Spay Pack



501324 Allis Tissue Forceps, 15 cm, 4x5 Teeth, Stainless Steel



V503382 Mayo-Hegar Needle Holder, 15 cm, Stainless Steel



15921 Halsted Mosquito Forceps, 12.5 cm, Curved, Stainless Steel

2 included in Deluxe Canine Spay Pack



501288 Kelly Hemostatic Forceps, 14 cm, Curved, Stainless Steel

2 included in Deluxe Canine Spay Pack



501751 Mayo Scissors, 17 cm, Straight, Stainless Steel

2 included in Deluxe Canine Spay Pack



V503380 Jones Towel Clamp, 9 cm, Stainless Steel

3 included in Deluxe Canine Spay Pack



501998 Olsen Hegar Needle Holder, 15 cm, Stainless Steel



V503381 Groove Director, 15 cm, Stainless Steel



501289 Snook Ovariectomy, 17.7 cm, Stainless Steel

SUGGESTED MICROSURGICAL PACK

501315 Microsurgical Pack, 10 pieces

For details on custom surgical kits, see page 4.



14112 Spring Scissors, 14 cm, Curved, Stainless Steel



14098 Dumont #5 Tweezers, 11 cm, Stainless Steel



14395 Tenotomy Scissors, 10 cm, Straight, Stainless Steel



501247 Knife Handle, 10 cm, Round Knurled, Stainless Steel



14137 Castroviejo Needle Holder, 14 cm, Stainless Steel



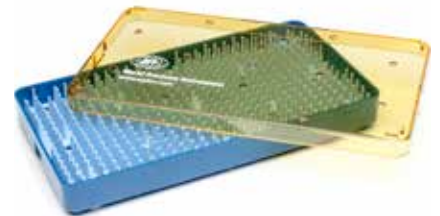
501313 Probe, 14 cm, 1 mm Diameter, Stainless Steel



501250 Miniature Edge Blades, 12 Pack



501314 Weitlaner Retractor, 10.2 cm, Stainless Steel



500253 Autoclavable Instrument Sterilization Tray with Silicone Mat, 10x10x2 cm



500452 Micro Hemostatic Forceps, 12.5 cm, Curved, Stainless Steel

WORLD PRECISION INSTRUMENTS

EXOTIC ANIMAL SURGICAL PACK

KIT-EXOTIC Exotic Animal Surgical Pack, 12 piece

For details on custom surgical kits, see page 4.



501244 Micro Adson Forceps, 12 cm, Stainless Steel



500216-G Iris Scissors, Tungsten Carbide Blades, 11 cm, Straight, Stainless Steel



14192 Surgical Scissors, 14 cm, Straight, Sharp/Blunt Tips, Stainless Steel



501291 Hartman Forceps, 9 cm, Curved, Stainless Steel

2 included in Exotic Animal Surgical Pack



501705 Hartman Mosquito Forceps, 9 cm, Stainless Steel

2 included in Exotic Animal Surgical Pack



500227-G Olsen Hegar Needle Holder with suture scissors, Stainless Steel



500236 #3 Scalpel Handle, 13 cm, Stainless Steel



15908 Dressing Forceps, 12.5 cm, Straight, Stainless Steel



14240 ALM Self-Retaining Retractor, Stainless Steel



14213 Instrument Sterilization Tray with Silicone Pads, 20 x 11 x 3 cm

CAUTERY UNITS

Handheld disposable cautery are battery operated and are usually sold with replaceable tips. These thermal cautery units are designed for use in research laboratories. **Coagulation:** Use higher voltage in a pulsed manner to produce heat more slowly. With this method, tissue damage is more widespread (a few millimeters from the probe) and blood coagulates. **Cutting:** Use lower voltage with a continuous AC current to produce heat rapidly and completely vaporize the tissue at the tip of the probe.

HIGH TEMPERATURE CAUTERY

- 500389** Handle
- 500392** Kit (includes handle plus 2 #500394 tips and 2 #500393 tips)



DISPOSABLE ADJUSTABLE HIGH TEMPERATURE CAUTERY

- 500388** Tip, 1500-2100°F, Sterile, 10 per box



LOW TEMPERATURE CAUTERY

- 500390** Handle
- 500391** Kit (includes handle plus 2 #500395 tips and 2 #500396 tips)



DISPOSABLE ADJUSTABLE LOW TEMPERATURE CAUTERY

- 501090** Tip, 700-1200°F, Sterile, 10 per box



DISPOSABLE HIGH TEMP TIPS

- Sterile
- For Handles #500389 and #500392
- 10 per box

- 500393** 2000° F
- 500394** 2200° F



500393

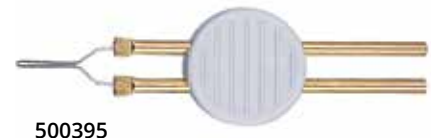


500394

DISPOSABLE LOW TEMP TIPS

- Sterile
- For Handles #500390 and #500391
- 10 per box

- 500395** 1100° F,
- 500396** 1300° F



500395



500396

WORLD PRECISION INSTRUMENTS

THERMAL CAUTERY UNIT

Provides consistent, accurate hemostasis

FEATURES

- Comes with 3 tips
- Long battery life
- 24 gauge platinum wire

APPLICATIONS

- Dermatology
- Ophthalmology
- Any surgical procedure

Traditional thermal cautery utilizes heat in the form of direct current to perform coagulation. This method eliminates the possibility of alternate site burns that can occur with electrosurgery. Only the heated wire tip comes in contact with the tissue and current does not enter the patient's body. WPI's Thermal Cautery Unit provides all the cautery power necessary for treating numerous minor surgical conditions and is ideal for applications such as dermatological, ophthalmological, occupational health, ENT, and plastic surgery cases, or any procedure that requires accurate hemostasis.

The Thermal Cautery Unit maintains the desired temperature during tissue contact and does not rapidly diminish like disposable battery powered cauteries. The autoclavable handpiece with six-foot cord accepts an assortment of reusable thermal cautery electrodes, allowing the surgeon to have the flexibility to perform a wide variety of procedures. This unit will outlast battery-powered units and save money on replacement batteries.

Reusable electrodes have solid 1-inch brass shanks; tips are made with 24 gauge platinum wire. These general purpose electrodes are supplied non-sterile, but may be autoclaved.

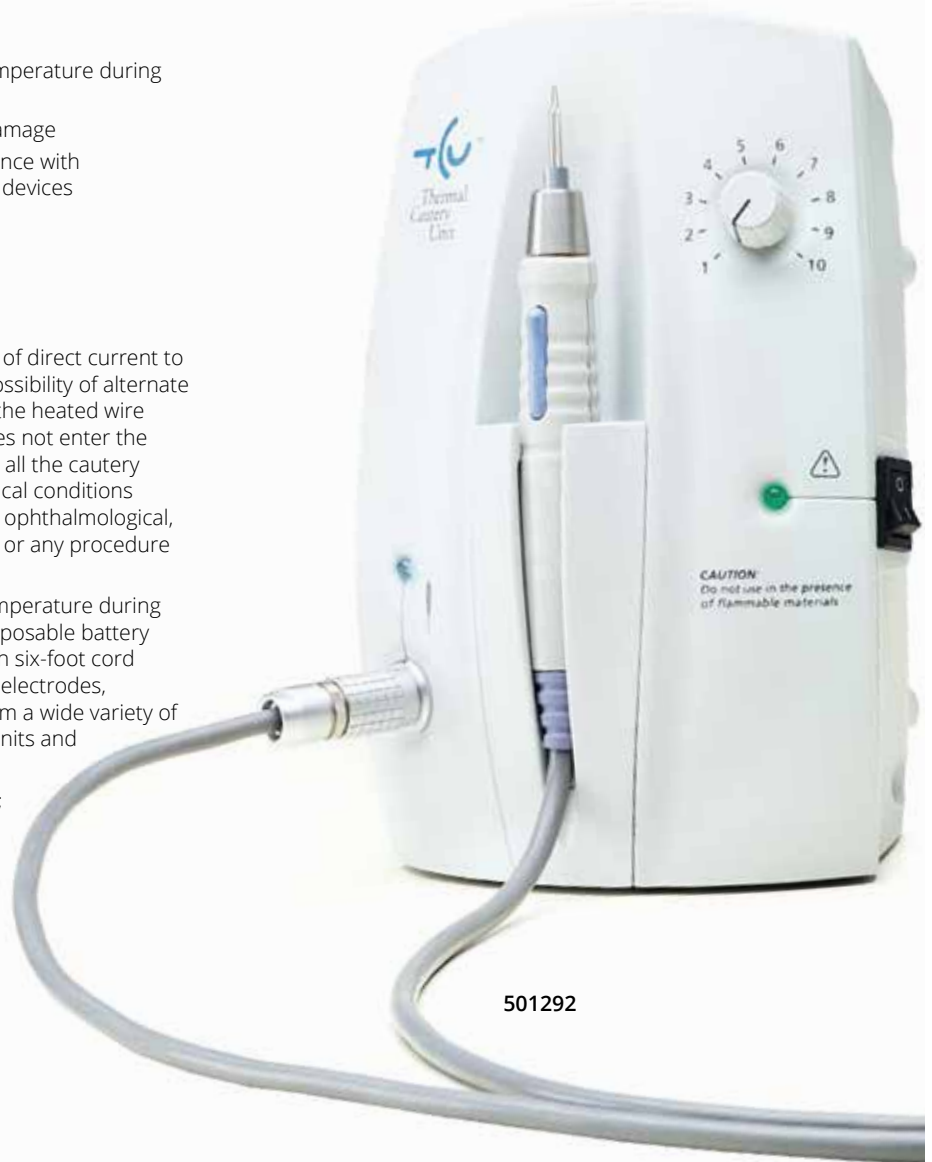
501292 Thermal Cautery Unit, 110 V

501293 Thermal Cautery Unit, 220 V

Includes Handpiece and electrodes A, C and E

BENEFITS

- Maintain temperature during procedure
- No tissue damage
- No interference with implantable devices



REUSABLE ELECTRODES

Style	WPI #	Description
V	503299	Vasectomy Tip Electrode
	501294	Replacement Handpiece for 501292 & 501293

CAUTERY UNIT SPECIFICATIONS

LINE VOLTAGE	110 V/220 V, 60Hz/50Hz
OUTPUT WAVE SHAPE	Clipped Sinusoidal
OUTPUT POWER	0-30 W \pm 6 W (0.2 Ω Load)
MAXIMUM OUTPUT POWER	36 W (0.2 Ω Load)
DIMENSIONS	13 cm x 13 cm x 20 cm (dxwxh)
SHIPPING WEIGHT	5 lb. (2.3 kg)



V
503299

ECONOMY ELECTROSURGICAL UNIT

Cut and coagulate with a press of the foot switch

FEATURES

- 10 levels of output intensity
- Three operational modes (cut, coagulate, cut/coagulate)
- Includes a variety of tips

BENEFITS

- Uses alternating current at radio frequencies
- 3 operational modes
- Economically priced

APPLICATIONS

- Cutting and coagulation of tissue
- Dermatology
- Ophthalmology
- Any surgical procedure

Electrosurgery utilizes alternating current at radio frequencies to cut and coagulate. Using this method, the current enters the subject's body and the subject becomes part of the electrical circuit. This requires the use of a return (or ground) plate. This economically priced electrosurgical unit has 10 levels of output intensity, three operational modes (cut, coagulate, and cut/coagulate) and various choices of electrodes. The unit comes complete and ready-to-use with a handpiece, ground plate, foot switch and one of each electrodes. All accessories can also be ordered separately.

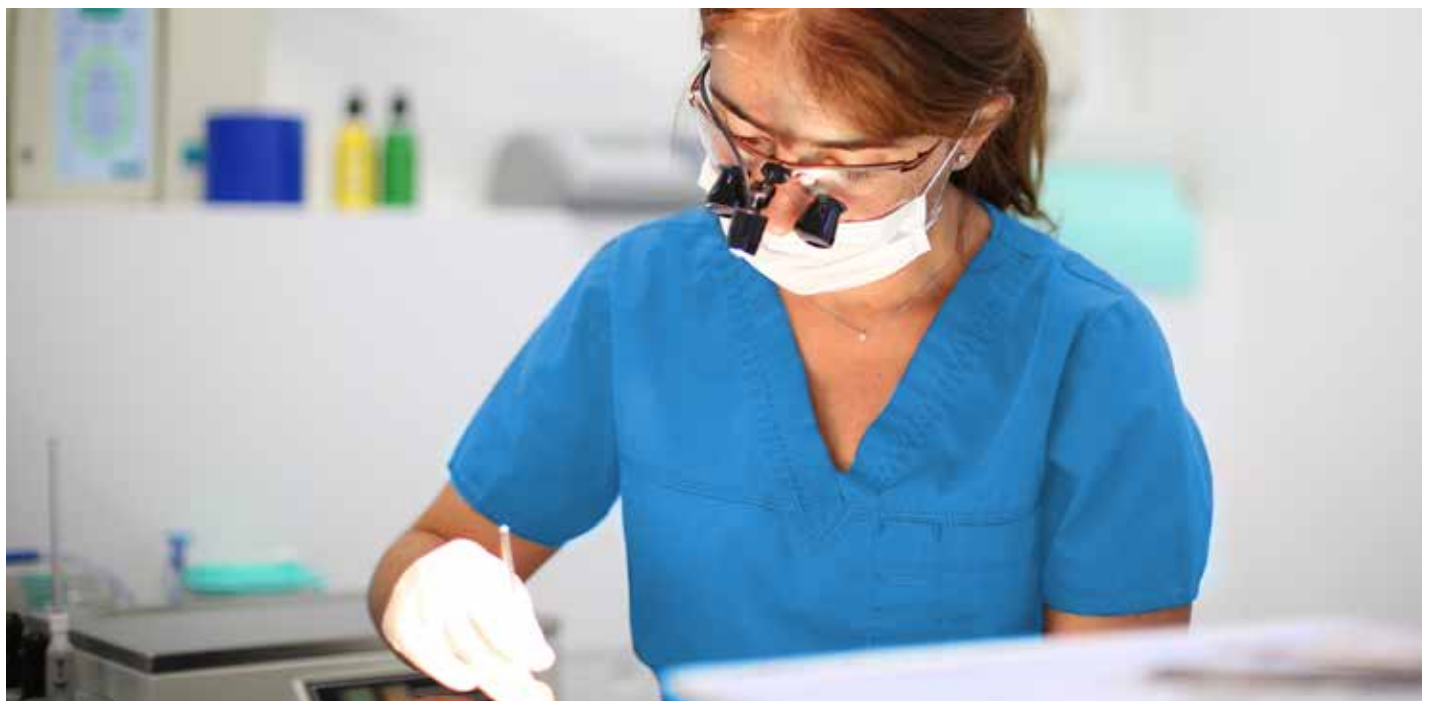
- 501274** Electrosurgical Unit, 110 V
- 501284** Ball Electrode, Ø 1.6 mm shaft



501274

ELECTROSURGICAL UNIT SPECIFICATIONS

OPERATION FREQUENCY	1.5 MHz
STABLE & FINE POWER SETTING	10 Steps
POWER SUPPLY	110 V ± 10% - 50/60 Hz 1.8A, 210 VA 230 V ± 10% - 50/60 Hz 0.9A, 210 VA
OUTPUT POWER	70 W ± 5%
WORKING FREQUENCY	1.5-1.7 MHz ± 5%
DIMENSIONS	24 x 22 x 8.5 cm (lwxhx)
SHIPPING WEIGHT	10 lb. (4.5 kg)



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NON-REFLECTIVE TITANIUM COATING

Our black instruments are coated with titanium nitride (TiN), an extremely hard ceramic material. The TiN coating hardens and protects the cutting edge. Ceramic coated anti-reflective instruments are perfect for microscopy and microsurgical applications. Coating surgical instruments with a black ceramic adds a thin layer to the metal instrument, making the instrument harder and giving you greater precision. This anti-glare surface minimizes reflections off the surface of your instruments. The incredibly smooth coating improves the instruments' resistance to corrosion and minimizes friction. The ceramic coating is virtually impenetrable, because the raw material is bonded to the instrument both physically and chemically. These instruments are much more resilient to the pressure of daily use and chemical processing. Coated instruments last considerably longer.

Corrosion resistant • Non-reflective • Low friction • Wear and tear resistant • Biocompatible

STARBISMUS SCISSORS

- Round tips
- Ceramic coated

WPB407400 12 cm (4.7 in.), Straight

WPB409000 11 cm (4.5 in.), Curved



WPB409000



WPB409000



WPB407400

IRIS SCISSORS

- 11 cm Long
- SuperCut
- Straight
- Ceramic coated

504487 Iris scissors



504487



504487

VANNAS TUBINGEN SCISSORS

- 8 cm Long
- Ceramic coated

504488 Straight

504499 Curved



504488



504499



504488



504499

JAFFE FORCEPS

- 10cm Long
- 0.3mm Tips
- Curved
- Ceramic coated
- Stainless Steel

WPB505210 Jaffe Forceps



WPB505210

MICRO BARRAQUER NEEDLE HOLDER

- 12cm Long
- 0.45mm Fine Tips
- Curved
- Ceramic coated
- Stainless Steel

WPB6036 Micro Barraquer Needle Holder



WPB6036

ST MARTIN MICRO CORNEAL FORCEPS

- 11cm Long
- Fine Tips
- Ceramic coated
- Stainless Steel

WPB5035 St Martin Micro Corneal Forceps



WPB5035

WESTCOTT SCISSORS, BLACK COATED

- 11 cm Long, Flat Handle
- Curved
- Ceramic coated
- Stainless Steel

WPB4041 0.14 mm Sharp Tips

WPB4030 0.9 mm Blunt Tips



WPB4041

WPB4041

LIEBERMANN SPECULUM V

- Wire lid tension is adjustable with thumbscrew control
- 12 mm Blades

WPI105675 Liebermann Speculum V



WPI105675

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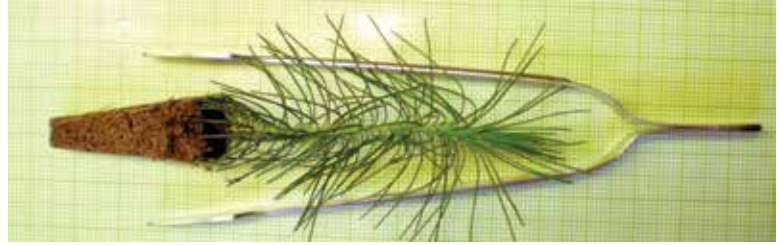
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HORTICULTURAL SCIENCE

We offer a unique assortment of instruments to aid on plant physiology, plant, molecular, cellular and developmental biology.

FORCEPS

- 15917** Iris Forceps, 10 cm, Curved, 1x2 Teeth, Stainless Steel
- 15914** Iris Forceps, 10 cm, Straight, Serrated, Stainless Steel
- 504473** Nugent Utility Forceps, 10 mm, Angled Tip, Stainless Steel
- 500456** Filter Forceps, 11 cm, Straight, Stainless Steel
- 500457** Filter Forceps, 11 cm, Bent Flat Jaw, Stainless Steel
- 503411** Horticultural Forceps, 12.5 cm, Stainless Steel
- 501241** Kelly Hemostatic Forceps, 14 cm, Straight, Stainless Steel
- 501715** Kelly-Rankin Hemostatic Forceps, 15.5 cm, Curved, Stainless Steel
- 501714** Kelly-Rankin Hemostatic Forceps, 15.5 cm, Straight, Stainless Steel
- 501708** Rochester-Pean Hemostatic Forceps, 19 cm, Curved, Stainless Steel
- WPB315AS** Black Epoxy Coated Cutter, 11 cm (4.3 in.), Patented EZ Lever, strong blades, 6.5 mm from tip to bend
- WPB315AB** Black Epoxy Coated Cutter, 11 cm (4.3 in.), Patented EZ Lever, 4.5 mm from tip to bend



503411



WPB315AS



PROBE

- 501313** Probe, 14 cm, 1.0 mm Diameter, Stainless Steel



501313

BIOPSY PUNCH

- 504639** Reusable Rapid Punch Biopsy Kit with replacement 0.5 mm tip
- 504642** Replacement Tips for Reusable Rapid Biopsy Punch

Also see Disposable Biopsy Punches, page 136



504639



Rapid-Punch with 0.5mm tip

SCALPELS

500236 Scalpel Handle #3, 13 cm

500237 Scalpel Handle #4, 14 cm

For blades, see page 110



500236

SCISSORS

500380 Spence Stitch Ligature Scissors, 9 cm, Stainless Steel

501223 Operating Scissors, 16 cm, Sharp/Blunt, Straight, Stainless Steel

501224 Operating Scissors, 16 cm, Blunt/Blunt, Straight, Stainless Steel

501225 Operating Scissors, 16 cm, Sharp/Sharp, Straight, Stainless Steel

501226 Operating Scissors, 16 cm, Sharp/Blunt, Curved, Stainless Steel

501227 Operating Scissors, 16 cm, Blunt/Blunt, Curved, Stainless Steel

501228 Operating Scissors, 16 cm, Sharp/Sharp, Curved, Stainless Steel

501259 Mayo Scissors, 17 cm, Straight, SuperCut with Tungsten Carbide

503385 Mayo Scissors, 17 cm, Curved, SuperCut, Titanium



501226

KITS

501336 Student Kit, 8 pieces plus canvas roll-up

504165 Student Botanical Kit, 11 pieces plus leather case



504165

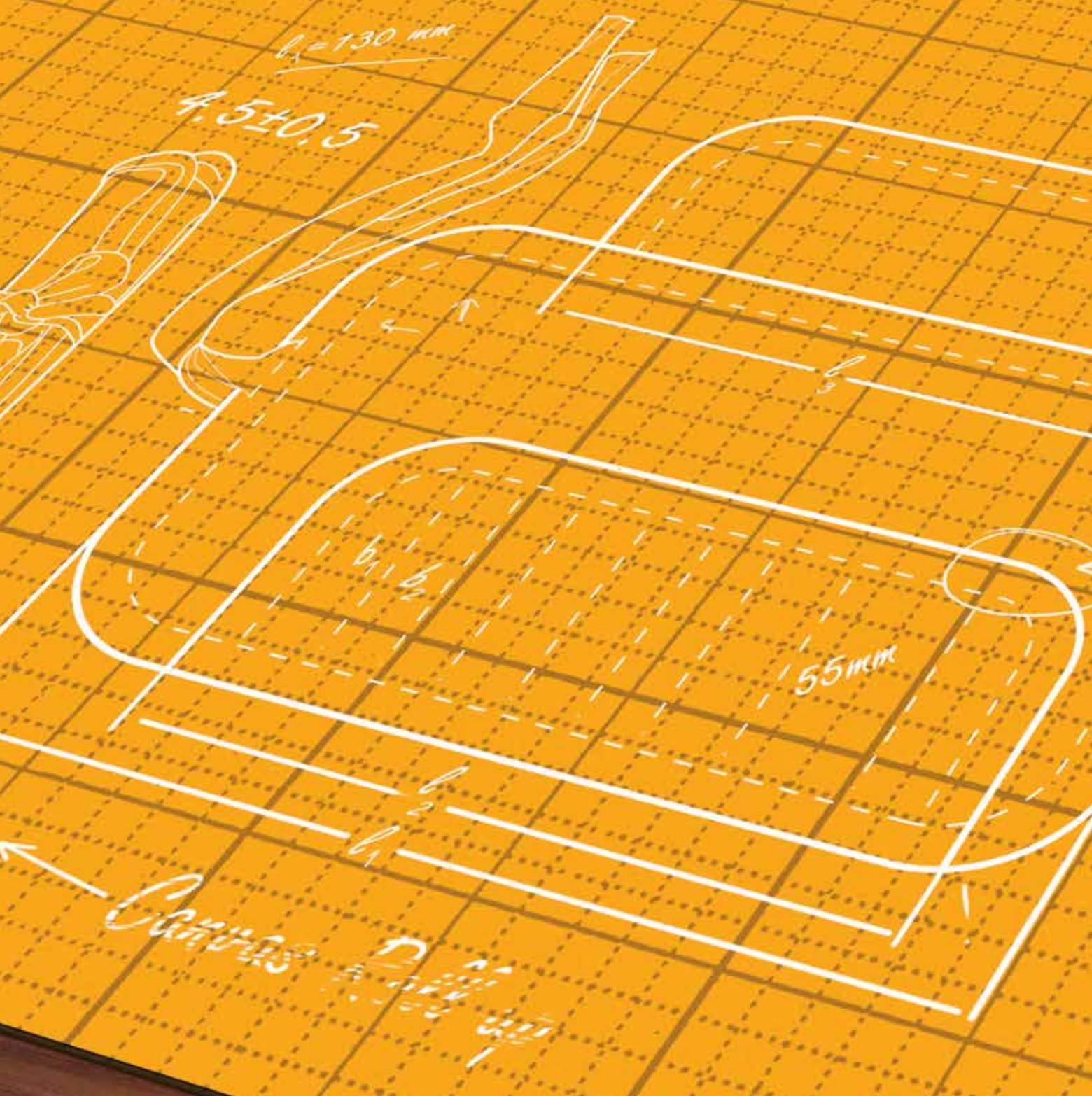


501336

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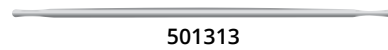
KITS

PHYSIOLOGY KIT I

Kit Includes:

- SuperCut Tenotomy Scissors, Curved (14396)
- Dumont Forceps (500342)
- Rongeur, 3 mm jaw (14091)
- Filter Forceps, 11 cm, Straight, Flat Jaw (500456)
- Utility Scissors (501322)
- Probe, 1.0 mm Diameter, Blunt (501313)
- Operating Scissors, Straight, Sharp/Blunt (14192)

KIT-PHYSIO-I Physiology Kit I (7 instruments)

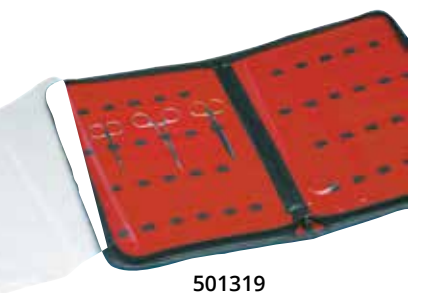
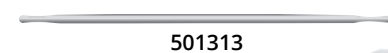
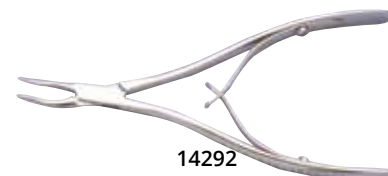


PHYSIOLOGY KIT II

Kit Includes:

- Vannas Scissors (14003)
- Stevenson Retractor (14131)
- SuperCut Iris Scissors, Straight (14218)
- Iris Forceps, Curved, Serrated (15915)
- Rongeur, 1.3 mm Jaw (14292)
- Adson Forceps, 1x2 Teeth (500092)
- Utility Scissors, Straight, Sharp/Blunt (501322)
- Olsen-Hegar Needle Holder (500227)
- Probe, 1.0 mm Diameter, Blunt (501313)
- Dumont Forceps (500342)
- Operating Scissors, Straight, Sharp/Blunt (14192)
- Portfolio (501319)

PHYSIO-II Physiology Kit II (11 instruments plus zipper case)



WORLD PRECISION INSTRUMENTS

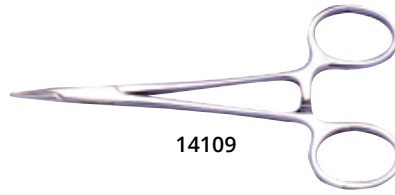
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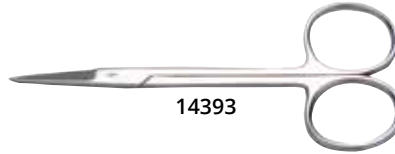
MOUSE DISSECTING KIT

Kit Includes:

- Dumont Forceps (500342)
- Wire Retractor (14130)
- Vannas Scissors (14003)
- Needle Holder (14109)
- Iris Forceps, Curved, Serrated (15915)
- Probe, 1.0 mm Diameter, Blunt (501313)
- Dissecting Scissors, 10 cm, Straight (14393)
- Portfolio (503294)



14109



14393



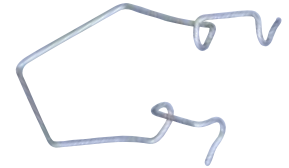
501313



500342



15915



14130

MOUSEKIT Mouse Kit (7 instruments plus zipper case)

504741 Mouse Kit for Telemetry Training (includes 500453)



Vessel Cannulation Forceps (500453)

Included only with Kit 504741



503294



14003

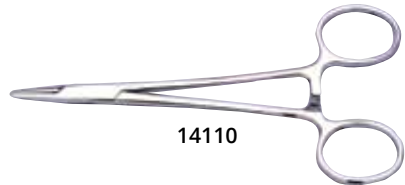
RAT DISSECTING KIT

Kit Includes:

- Dumont Forceps 500342
- Alm Retractor 14240
- Vannas Scissors 14124
- Needle Holder 14110
- Iris Forceps, Curved, Serrated 15915
- Probe, 1.0 mm Diameter, Blunt 501313
- SuperCut Iris Scissors, Straight 14218



15915



14110



14240



500342

RATKIT Rat Kit (7 instruments)

504740 Rat Kit for Telemetry Training (includes 500453)



Vessel Cannulation Forceps (500453)

Included only with Kit 504740



14218



501313



14124

STORAGE PORTFOLIO

501319 Large Surgical Instrument Storage Portfolio, Holds up to 40 Instruments

503294 Small Surgical Instrument Storage Portfolio, Holds up to 10 Instruments



503294



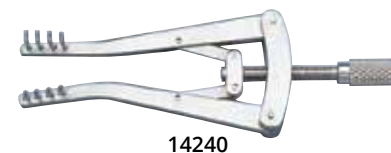
501319

MOUSE VESSEL CANNULATION KIT

Kit Includes:

- Dumont Forceps (500342)
- Vannas Scissors (14003)
- Alm Retractor (14240)
- Fine Serrated Forceps (15908)
- MicroFil 28 ga. (MF28G-5)
- Vessel Cannulation Forceps, 0.5 mm Diameter (500377)

501895 Mouse Vessel Cannulation Kit
(6 instruments)

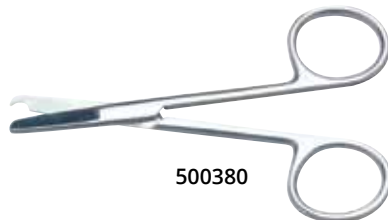
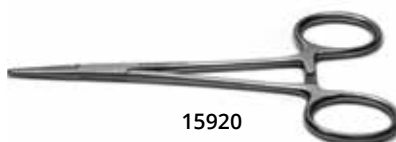


CATHERIZATION & CANNULATION KIT

Kit Includes:

- Castroviejo Needle Holder, 14 cm (14137)
- Forceps, Mosquito 12.5 cm Straight (15920)
- Forceps, Adson-Brown 12 cm Tungsten Carbide (500177)
- Disposable Scalpel, No.15 (500351)
- Scissors, Ligature, 9 cm (500380)
- Scissors, Metzenbaum, Supercut (503269)
- Nugent Utility Forceps, 10 mm (504473)
- WPI Swiss Tweezers, Stainless Steel, 11 cm (504506)
- Skin Stapler 35S, Sterile (504562)

504742 Catherization & Cannulation Kit



STUDENT BOTANICAL PORTFOLIO

Kit Includes:

- Scissors, 14 cm.
- Dropper
- Scalpel Handle #3
- 4 Scalpel Blades
- Teasing Needle, Straight
- Teasing Needle, Angled
- Mariani Tweezers, Angled
- Tweezers, Straight
- Surgical Instrument Portfolio

504165 Student Botanical Portfolio (zipper case included)



STUDENT ENTOMOLOGY PORTFOLIO

Kit Includes:

- 2 Teaser Needles, Straight
- 2 Teaser Needles, Angled
- Iris Scissors, 11.5 cm
- Scalpel Handle #3
- Adson Micro Forceps, 12 cm
- Dropper
- 2 Micro Dissection Forceps, 12 cm, Straight
- 2 Micro Dissection Forceps, 12 cm, Curved
- 2 Entomology Forceps, 10 cm
- Tweezers with Magnifying Mirror
- Stainless Steel Ruler, 6 in.
- 10 Blades #10
- Surgical Instrument Portfolio

504166 Student Entomology Portfolio (17 pieces plus zipper case)



STUDENT DISSECTION PORTFOLIO

Kit Includes:

- Scalpel Handle #3
- Scalpel Handle #4
- Dressing Forceps, 16 cm
- Mayo Hager Needle Holder, 16 cm
- Teasing Needle, Straight
- Teasing Needle, Angled
- Hooks with Chain
- Tissue Forceps, 1:2, 16 cm
- Dissecting Scissors, 16 cm, Sharp/Blunt
- Kelly Forceps, 14 cm, Straight
- Dropper
- Stainless Steel Ruler, 6 in.
- Grooved Director, Plain
- Adson Tissue Forceps, 12 cm
- 4 Blades for Scalpel Handle #4
- 4 Blades for Scalpel Handle #3
- Surgical Instrument Portfolio

504167 Student Dissection Portfolio (16 pieces plus zipper case)



STUDENT ANATOMY PORTFOLIO

Kit Includes:

- Plastic Ruler, 6 in.
- Mall Probe
- Teaser Needle, Angled
- Teaser Needle, Straight
- Dressing Forceps, 16 cm
- Mosquito Forceps, 12.5 cm
- Scalpel Handle #3
- Blades for Scalpel Handle #3
- Scalpel Handle #4
- Blades for Scalpel Handle #4
- Dissecting Scissors, 14 cm, Sharp/Blunt
- Hooks with Chain
- Surgical Instrument Portfolio

504164 Student Anatomy Portfolio (zipper case included)



STUDENT DISSECTING KIT

Kit Includes:

- Dissecting Scissors, 4.5 in.
- Dissecting Scissors, 4 in.
- Dressing Forceps, 5.5 in.
- Micro Dressing Forceps, 4 in.
- #4 Knife Handle
- Teasing Needle, Straight
- Teasing Needle, Angled
- #22 Surgical Blade
- Canvas Roll-up

501336 Student Dissecting Kit



SILICONE DISSECTING PAD KIT

Kit Includes:

- 2-Part SylGard Silicone Elastomer
- 20 Plastic Petri Dishes with Lids, 51 mm Diameter
- Pins

Make your own silicone dissecting pads easily and quickly. Mix the 2-part silicone right in the plastic petri dishes and allow to cure 24 hours at room temperature. Kit includes enough silicone to prepare 20 dishes.

501986 Silicone Dissecting Pad Kit



VETERINARY INSTRUMENT IDENTIFICATION KIT

The Veterinary Instrument ID Kit has all the tools needed to prepare students for the State Proficiency Test, and it comes with a set of flash cards to teach identification of the tools used by Veterinary Assistants. The informative flash cards let you learn more about the uses of each instrument while you learn how to identify them.

Kit includes 28 of the most common surgical instruments:

- | | |
|---------------------------------------|---|
| 1 Halsted Mosquito Hemostatic Forceps | 15 Bone Chisel |
| 2 Rochester-Ochsner Forceps | 16 Brown-Adson Thumb Forceps |
| 3 Olsen-Hegar Needle Holder | 17 Snook Ovariohysterectomy Hook |
| 4 Babcock Tissue Forceps | 18 Backhaus Towel Clamps |
| 5 Rochester-Pean Forceps | 19 Rochester-Carmalt Hemostatic Forceps |
| 6 Mayo-Hegar Needle Holder | 20 Alligator Forceps |
| 7 Allis Tissue Forceps | 21 Adson Thumb Tissue Forceps |
| 8 Metzenbaum Dissecting Scissors | 22 Weitlaner Retractor |
| 9 Mayo Dissecting Scissors | 23 Littauer Suture Removal Scissor |
| 10 Crile Forceps | 24 Tenotome Knife |
| 11 Lister Bandage Scissor | 25 Rat Tooth Thumb Forceps |
| 12 Russian Thumb Forceps | 26 Kelly Forceps |
| 13 Wire Suture Cutting Scissors | 27 Bone Curette |
| 14 Gelpi Retractor | 28 DeBaKey Vascular Thumb Forceps |



504196 Vet Tech Surgical Instrument ID Kit

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STEREOTAXIC KIT

Kit Includes:

- Metzenbaum Scissors, Supercut, Straight (503269)
- Scalpel Handle #3 (500236)
- Micro Dissecting Forceps, Angled, Serrated Tips (504479)
- Needle Holder, Round Handles, Straight (14080)

504743 Stereotaxic Kit



503269



504479



500236



14080

ZEBRAFISH KIT 1

Kit Includes:

- Student Vannas Scissors, 9cm, Straight, 500 micron Tip (501777)
- Microdissecting Forceps, 10.2 cm, Angled, Serrated (504479)
- Probes, 0.25 mm tips, 15 cm (WP10118)
- Probes, 0.25 mm tips, 45 ° angle, 15 cm (WP10218)

WP200018 Zebrafish Kit #1



WP10118



501777



WP10218



504479

ZEBRAFISH KIT 2

Kit Includes:

- Noyes Scissors, 12 cm, Straight, Sharp/Sharp, 15mm Blades (500228)
- Tissue Forceps, 1x2 teeth (15918)
- Iris Forceps, 10cm, Curved, Serrated (15915)
- Probes, 0.25 mm tips, 15 cm (WP10118)
- Probes, 0.25 mm tips, 45 ° angle, 15 cm (WP10218)

WP200218 Zebrafish Kit #2



WP10118



500228



WP10218



15918



15915

combination blades are serrated, one tungsten insert

blunt 5.5mm tips

gold

black

4 cm

mayo scissors

SCISSORS

SELECTING SCISSORS

We offer a large variety of scissors, from standard ring scissors to the spring scissors. Here are some options to consider when you are selecting a fine pair of surgical scissors.

Ceramic Coated Scissors—Coating surgical instruments with a black ceramic offers several distinct advantages. First, the coating adds a thin layer to the metal instrument that actually makes the instrument harder, offering surgeons greater precision and perfection. This anti-glare surface minimizes any reflection off the surface of the instrument. In addition, the ceramic coating is incredibly smooth, which improves the instruments resistance to corrosion. The smooth surface also minimizes friction. The reduced wear and tear means coated instruments last considerably longer. It is nearly impossible to penetrate the ceramic coating, because the raw material is bonded to the instrument both physically and chemically. The black coated instruments are much more resilient to the pressure of daily use and chemical processing.

SuperCut Scissors—We offer some scissors that have the option of one edge being micro serrated, and the other edge having the sharpness of a knife edge. This option is provided in a number of scissor types and models. WPI designates this option with a black handle.

SuperCut Tungsten Carbide—Scissors combine the precise cutting action of the razor-sharp SuperCut blades with the durability of Tungsten Carbide. They provide a clean, smooth cut and retain their sharpness for an extended period of time. These scissors have one black handle and one gold handle.

Diamond coated blades increase the longevity of the cutting edge and improve the quality of the cut. Used to reduce wear on razor blades and industrial metal cutting tools, this coating is now being used in biomedical applications. Some studies have shown that even after double the normal usage of the cutting implement, no blade wear was detected.

Hardness of coated surface resists wear and increases life of cutting edge

- Anti-reflective coating resists glare and assists in better view of surgical field
- Coating is corrosion resistant
- Reduced friction at cutting site decreases necrosis of surrounding tissue and bone

SPRING SCISSORS

- May be used with either left or right hand
- Designed for neurosurgical, vascular and ophthalmic procedures
- Cuts by shearing, reduces crushing of tissue
- Fine tips are ideal for use in very restricted spaces
- Curved tips are useful to avoid cutting of underlying tissue
- Heavier blades are helpful when a thick tissue or vessel is to be cut
- Length of the scissor tips can help with the depth of the incision:
Shorter tips for near-to-surface incision
Longer tips for deep incision

WPI Vannas scissors have small, sharp blades specifically designed for researchers working in tight spaces.

VANNAS SCISSORS

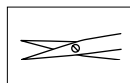
- Small, long blades for uses in ophthalmology, neurosurgery, microsurgery
- Super fine
- 8 cm Long
- 3 mm Blades
- 0.015 mm Tips
- Stainless Steel

501778 Straight

501839 Curved



501778



VANNAS SCISSORS

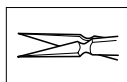
- Diamond shaped tips
- 9 cm (3.5 in.) Long
- 5 mm Blades
- 0.1 mm Tips
- Stainless Steel

14003 Straight

14003-G Straight, German



14003



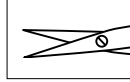
Standard and German versions may differ slightly in appearance.

MCPHERSON-VANNAS SCISSORS

- 7 cm Long
- 3 mm Blades
- 0.1 mm Tips
- Stainless Steel

14177 Straight

501233 Curved



14177



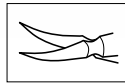
501233

14177

VANNAS SCISSORS

- 8 cm (3 in.) Long
- 5 mm Blades
- 0.1 mm Tips
- Stainless Steel

14122-G Curved, German

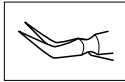


14122-G

VANNAS SCISSORS

- 8 cm (3 in.) Long
- Angled 5 mm blades
- Stainless Steel

501790 0.1 mm Tips



501790

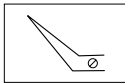
VANNAS SCISSORS

- 8 cm (3 in.) Long
- 45° Angled 5 mm blades
- Stainless Steel

500260 0.1 mm Tips

500260-G 0.1 mm Tips German

Standard and German versions may differ slightly in appearance.



500260

MCPHERSON-VANNAS SCISSORS

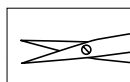
- 8 cm (3 in.) Long
- 5 mm Blades
- 0.1 mm Tips
- Stainless Steel

14124-G Straight, German

501234 Curved

501234-G Curved, German

Standard and German versions may differ slightly in appearance.



14124-G



501234

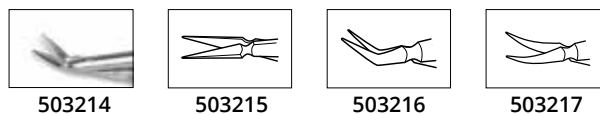
14124-G

WORLD PRECISION INSTRUMENTS

MCPHERSON-VANNAS SCISSORS

- These scissors have slightly rounded tips for blunt dissection.
- 8 cm (3 in.) Long
- Rounded tips
- Stainless Steel

- 503215** 3 mm Blades, 0.22 mm Tips, Straight
- 503214** 5 mm Blades, 0.22 mm Tips, 45° Angled to Side
- 503217** 0.30 mm Tips, Curved
- 503216** 0.50 mm Tips, Angled on Flat



VANNAS TUBINGEN SCISSORS

- 8 cm (3 in.) Long
- 3 mm Blades
- German Steel

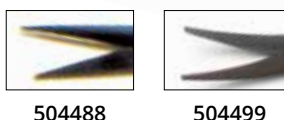
- 503378** Straight
- 503379** Curved



VANNAS TUBINGEN SCISSORS, TITANIUM COATING

- 8 cm (3 in.) Long
- Ceramic coated
- Non-reflective
- Corrosion resistant
- 5 mm Cutting edge
- 0.3 mm Tip
- Stainless Steel

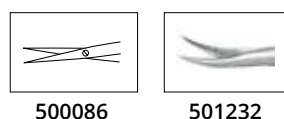
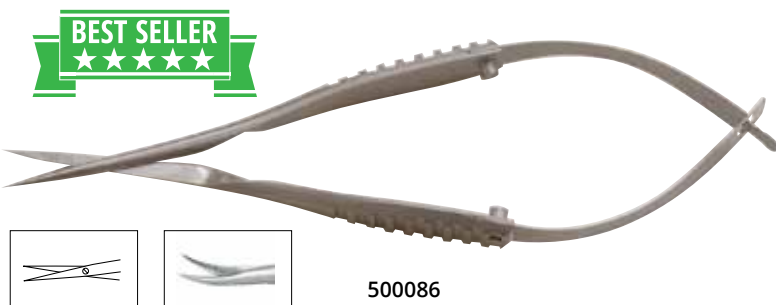
- 504488** Straight
- 504499** Curved



SUPER FINE VANNAS SCISSORS

- 8.5 cm (3.3 in.) Long
- 7 mm Blades
- 0.025 x 0.015 mm Tips
- Stainless Steel

- 500086** Straight
- 501232** Curved



VANNAS SCISSORS

- 9 cm (3.5 in.) Long
- 6 mm Blades
- 3 mm Cutting edge tips
- Stainless Steel

503371 Straight

503372 Curved



503371



503372

503371

STERN-GILLS SCISSORS

- 10 cm (3.9 in.) Long
- Long, extra fine blades
- 10 mm Blades, angled
- Stainless Steel

504490 Stern-Gills Scissors



504490

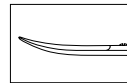
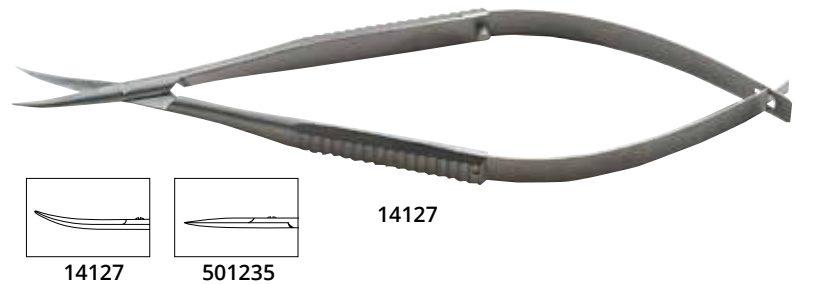
SPRING SCISSORS

- 10.5 cm (4 in.) Long
- 8 mm Blades
- Stainless Steel

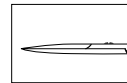
501235 Straight

14127 Curved

14127-G Curved, German



14127



501235

14127

Standard and German versions may differ slightly in appearance.

MCPHERSON-WESCOTT CONJUNCTIVA SCISSORS

- 11 cm (4.3 in.) Long
- 9 mm Blunt blades
- Curved
- Stainless Steel

504023 McPherson-Wescott Conjunctiva Scissors



504023

KATENA-VANNAS SCISSORS

- 11 cm (4.3 in.) Long
- Stainless Steel

- 504024** 7 mm Thin Blades, Straight
- 504025** 7 mm Thin Blades, Curved
- 504026** 10 mm Thin Blades, Straight
- 504027** 10 mm Thin Blades, Curved



MICRO SCISSORS – DIAMOND LIKE CARBON COATED BLADES

Diamond like carbon coated blades increase the longevity of the cutting edge and improve the quality of the cut. Used to reduce wear on razor blades and industrial metal cutting tools, this coating is now being used in biomedical applications. Some studies have shown that even after double the normal usage of the cutting implement, no blade wear was detected.

- Hardness of coated surface resists wear and increases life of cutting edge
- Anti-reflective coating resists glare and assists in better view of surgical field
- Coating is corrosion resistant
- Reduced friction at cutting site decreases necrosis of surrounding tissue and bone
- 12 cm (4.75 in.)
- Sharp coated tips
- 8 mm Blades
- Stainless Steel,

- 503365** Straight
- 503364** Curved

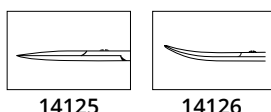


SPRING SCISSORS

- 12 cm (4.75 in.) Long
- 12 mm Extra fine, long blades
- Stainless Steel

- 14125** Straight
- 14125-G** Straight, German
- 14126** Curved

Standard and German versions may differ slightly in appearance.



NOYES SCISSORS

- 12 cm Long
- 15 mm Tips
- Originally designed to remove the iris (iridectomy)
- Fine for multi-purpose use
- Best for trimming tissue from nerves

- 500228** Sharp/Sharp Tips, Straight
- 500228-G** Sharp/Sharp Tips, Straight, **German**
- 501236** Sharp/Sharp Tips, Curved
- 501236-G** Sharp/Sharp Tips, Curved, **German**
- 503305** Sharp/Blunt Tips, Straight
- 503306** Blunt/Blunt Tips, Straight
- 501237** 14 cm, 20 mm Tips, Straight
- 501238** 14 cm, 20 mm Tips, Curved

Standard and German versions may differ slightly in appearance.



500228



501236



503305



503306



501237



501238

NOYES SPRING SCISSORS

- 12 cm (4.75 in.) Long
- 14 mm Blades
- Angled
- Stainless Steel

- 504491** Noyes Spring Scissors



504491

SUPERCUT SPRING SCISSORS

- 12.5 cm (4.9 in.) Long
- 9 mm Blades
- Straight
- Stainless Steel

- 501924** Supercut Spring Scissors



501924

ROUND HANDLED SPRING SCISSORS

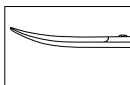
- Used in general microsurgery
- 14 cm (5.5 in.) Long
- Long, fine blades
- Stainless Steel

- 14111** 6.5 mm Blades, Straight
- 14111-G** 6.5 mm Blades, Straight, **German**
- 14112** 7 mm Blades, Curved
- 14112-G** 7 mm Blades, Curved, **German**

Standard and German versions may differ slightly in appearance.



14111



14112

14112

WESTCOTT ROUND BLADE SCISSORS

- 14 cm (5.5 in.) Long
- 10 mm Blades
- Angled
- Stainless Steel

- 504492** Stainless Steel
- WPB4041** Black Coated, Anti-Glare, Corrosion Resistant



504492

SPRING SCISSORS

- 14 cm (5.5 in.) Long
- 8 mm Blades
- Stainless Steel

- 15905** Straight
- 15905-G** Straight, **German**
- 15906-G** Curved, **German**



15905-G

MCCLURE IRIS SCISSORS

- 9 cm (3.5 in.) Long
- Made in Germany

- WP8549** McClure Iris Scissors



WP8549

TITANIUM SCISSORS

100% anti-magnetic, corrosion-resistant, lightweight and strong, titanium alloy is ideal for biological and medical applications. Titanium has the tensile strength of carbon steel and is completely resistant to corrosion from nitric acid, chloride, salt water, and industrial and organic chemicals. Titanium is more flexible and 40% lighter than Inox. This reduces hand fatigue during long procedures. When heated or cooled, the dimensions of titanium alloy change less than half of what stainless steel alloys will, making titanium surgical instruments much more durable. Titanium is stain-free and temperature resistant up to 430°C. Titanium instruments are the premium choice for corrosive environments or MRI applications.

- 100% non-corrosive (great for seawater procedures)
- 40% lighter than stainless steel (reduces hand fatigue)
- 100% non-magnetic (MRI compatible)
- Anodized, non-glare blue finish

IRIS SCISSORS

- 9 cm (3.5 in.) Long
- Sharp 11 mm tips
- Straight
- **Titanium**

WP4400 Iris Scissors, Titanium



WP4400

VANNAS CAPSULOTOMY SCISSORS

- 10.5 cm (4.1 in.) Long
- 12.5 mm Tips
- Curved, sharp tips
- **Titanium**

WP5060L Vannas Capsulotomy Scissors, Titanium



WP5060L

MCPHERSON-WESTCOTT STITCH SCISSORS

- 11.5 cm (4.5 in.) Long
- 10.5 mm Tips
- Curved
- **Titanium**

WP3000L McPherson-Westcott Stitch Scissors, Titanium



WP3000L

CASTROVIEJO CURVED SCISSORS

- 12 cm (4.7 in.) Long
- **Titanium**

WP2100R 16 mm Strongly Curved Tips

WP2120R Blunt 11 mm Tips



WP2100R

WORLD PRECISION INSTRUMENTS

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China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.net

VANNAS SCISSORS

- 8 cm (3.1 in.) Long
- 3 mm Tips
- **Titanium**

WP5000S Straight

WP5030S Angled



WP5000S

VANNAS SCISSORS

- 8.2 cm (3.2 in.) Long
- Sharp 9.5 mm tips
- **Titanium**

WP5050 Straight

WP5070 Angled Up



WP5070

WP5070

WP5050

IRIS SCISSORS

- 9 cm (3.5 in.) Long
- Curved
- Sharp 11 mm tips
- **Titanium**

WP4410 Iris Scissors



WP4410

VANNAS CAPSULOTOMY SCISSORS

- 9.5 cm (3.7 in.) Long
- Angled
- Sharp
- 10.5 mm Tips
- **Titanium**

WP5070L Vannas Capsulotomy Scissors



WP5070L

VANNAS CAPSULOTOMY SCISSORS

- 9.5 cm (3.7 in.) Long
- Curved
- Sharp
- 12.5 mm Tips
- **Titanium**

WP5060 Vannas Capsulotomy Scissors



WP5060

MCPHERSON-WESTCOTT CONJUNCTIVA SCISSORS

- 10.5 cm (4.1 in.) Long
- Curved
- Blunt
- **Titanium**

WP3000 McPherson-Westcott Conjunctiva Scissors



WP3000

IRIS SCISSORS

- 10.5 cm (4.1 in.) Long
- Curved
- Sharp 11 mm tips
- **Titanium**

WP4410L Iris Scissors



WP4410L

CASTROVIEJO SCISSORS

- 10.5 cm (4.1 in.) Long
- 11 mm Tips
- **Titanium**

WP2220 Curved

WP2222 Straight



WP2220

VANNAS CAPSULOTOMY SCISSORS

- 10.8 cm (4.25 in.) Long
- Straight
- Sharp 10.5 mm tips
- **Titanium**

WP5050L Vannas Capsulotomy Scissors



WP5050L

VANNAS SCISSORS

- 11 cm (4.3 in.) Long
- Straight
- Sharp 13 mm blades
- Extra Thin
- **Titanium**

WP5120 Vannas Scissors



WP5120

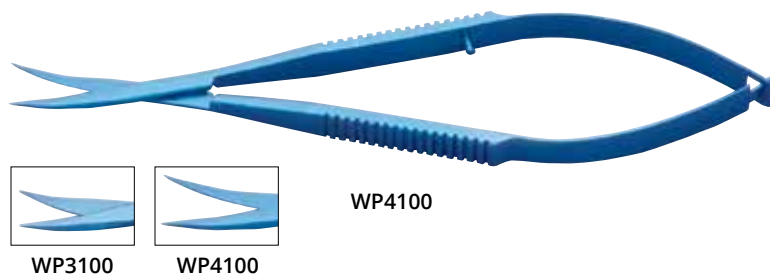
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WESTCOTT CURVED SCISSORS

- 11 cm (4.3 in.) Long
- 19 mm Tips
- **Titanium**
- WP3100** Blunt
- WP4100** Sharp



WESTCOTT CURVED SCISSORS

- 11.5 cm (4.5 in.) Long
- 21 mm Tips
- **Titanium**
- WP3100L** Blunt



CASTROVIEJO CURVED SCISSORS

- 12 cm (4.7 in.) Long
- Blunt 16 mm tips
- **Titanium**
- WP2110R** Castroviejo Curved Scissors, Titanium



Properly cleaning and caring for your surgical instruments is the single easiest way to prolong their use and improve the outcome of your surgical procedure.

Watch our Care and Cleaning videos:



wpiinc.com/sterilize



STUDENT SPRING SCISSORS

Our economy line of spring scissors are perfect for students who are doing small animal surgeries or dissection in a research laboratory. Our student spring scissors are manufactured from hardened surgical grade stainless steel. They are perfect for classroom use or as disposable instruments.

MCPHERSON VANNAS STUDENT SCISSORS

- Can be used in general microsurgery or ophthalmic procedures
- 9 cm (3.5 in.) Long
- 45° Angled, blunt tips
- Stainless Steel

503749 McPherson Vannas Student Scissors



503749

VANNAS STUDENT SCISSORS

- 9 cm (3.5 in.) Long
- 8 mm Blades
- 500 µm Tips
- Stainless Steel

501777 Straight

501930 Curved



501777

501930

501777

STUDENT SPRING SCISSORS

- 9.5 cm (3.7 in.) Long
- Stainless Steel

503309 6 mm Blunt/Blunt Tips, Straight

503308 6 mm Blunt/Blunt Tips, Curved

503310 6 mm Sharp/Ball Tips, Straight



503309

503308

503309

503310

WESTCOTT STUDENT SCISSORS

- 11 cm (4.3 in.) Long
- Stainless Steel

503222 Blunt Tips

503223 Sharp Tips



503222

503222

503223

WORLD PRECISION INSTRUMENTS

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RING SCISSORS

Our standard scissors all have ring handles. They come in a variety of sizes and shapes for any research application. Tips may be straight, curved, angled or bent.

You can typically recognize the construction style of scissors based on the following color code:

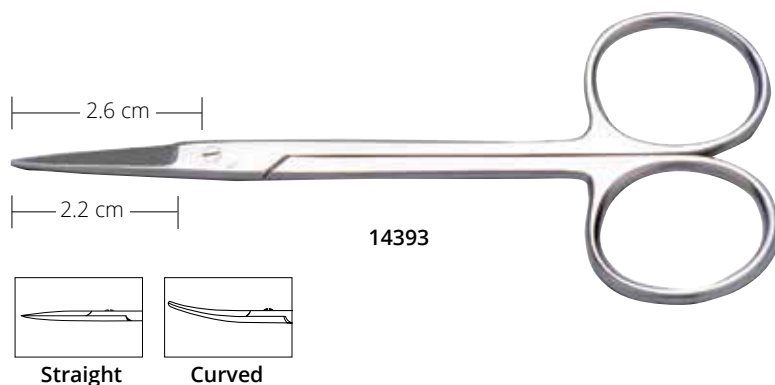
- Black handled rings indicate SuperCut scissors (with one serrated blade).
- Gold handles indicate that the scissors have tungsten carbide inserts.
- One gold handle and one black handle indicates that the scissors have serrations in one blade (black handle) and tungsten carbide on the other (gold handle).
- Blue instruments are typically titanium.

DISSECTING SCISSORS

- Multi-purpose use
- Ideal for cutting soft tissue or cartilage
- Stainless Steel

- 14393** 10 cm (4 in.), Straight
- 14393-G** 10 cm (4 in.), Straight, **German**
- 14394** 10 cm (4 in.), Curved
- 14394-G** 10 cm (4 in.), Curved, **German**
- 15922** 12.5 cm (4 in.), Straight
- 15922-G** 12.5 cm (4 in.), Straight, **German**
- 15923** 12.5 cm (4 in.), Curved
- 15923-G** 12.5 cm (4 in.), Curved, **German**

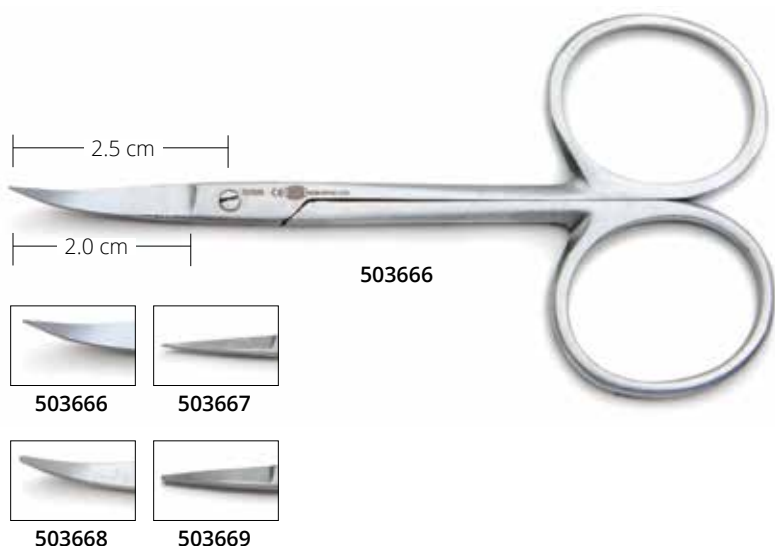
Standard and German versions may differ slightly in appearance.



MINI DISSECTING SCISSORS

- Multi-purpose use
- Ideal for cutting soft tissue or cartilage
- 8.5 cm (3.3 in.) Long
- Stainless Steel

- 503666** Sharp, Curved
- 503667** Sharp, Straight
- 503668** Blunt, Curved
- 503669** Blunt, Straight



WPI SWISS SCISSORS

- Multi-purpose use in microdissection procedures
- 9 cm (3.5 in.) Long
- Stainless Steel

- 504519** Curved, Extra Fine Tips
- 504520** Curved, Fine, Sharp Tips
- 504521** Curved, Heavy Duty, Rounded Tips
- 504522** Curved, Strong, Beveled Tips
- 504613** Straight, Fine, Sharp Tips
- 504614** Straight, Fine, Sharp Tips
- 504615** Curved, Fine Blunt Tips



504519



504520



504521



504522



504613



504614



504615

MINI DISSECTING SCISSORS

- Various lab procedures
- Multi-purpose use
- 9.5 cm (3.75 in.) Long
- Curved
- Regular tips
- Stainless Steel

- 503240** Mini Dissecting Scissors



503240



MINI DISSECTING SCISSORS

- Multi-purpose use
- 9.5 cm (3.75 in.) Long
- Straight
- Sharp fine tips
- Stainless Steel

- 503241** Mini Dissecting Scissors



503241



MINI DISSECTING SCISSORS

- Multi-purpose or laboratory procedures
- 9.5 cm (3.75 in.) Long
- Straight
- Sharp, fine tips
- Square handle
- Stainless Steel

503242 Mini Dissecting Scissors



MINI DISSECTING SCISSORS

- Multi-purpose or laboratory procedures
- 9.5 cm (3.75 in.) Long
- Straight
- Sharp, medium tips
- Stainless Steel

503243 Mini Dissecting Scissors



MINI DISSECTING SCISSORS

- Multi-purpose or laboratory procedures
- 9.5 cm (3.75 in.) Long
- Straight
- Sharp, medium tips
- Stainless Steel

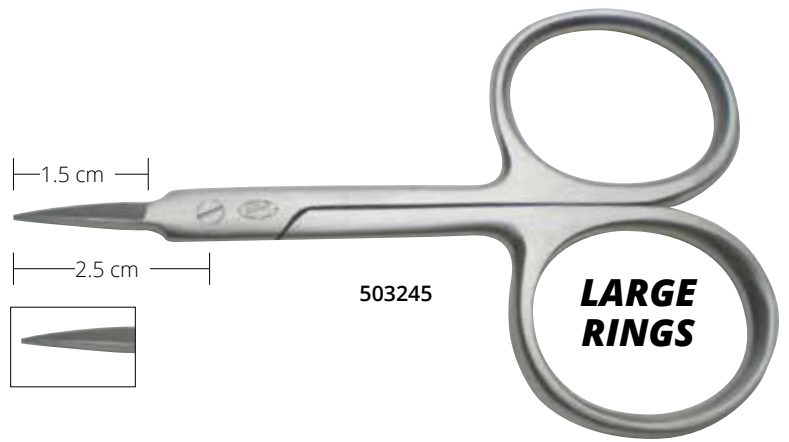
503244 Mini Dissecting Scissors



MINI DISSECTING SCISSORS

- Various lab procedures
- 9.5 cm (3.75 in.) Long
- Straight
- Sharp tips
- Large rings
- Stainless Steel

503245 Mini Dissecting Scissors



IRIS DISSECTING SCISSORS WITH PROBE TIPS

- Multi-purpose
- Ideal for detailed dissection of delicate tissues and can be used in suture removal
- 10 cm (4 in.) Long
- Blunt probe tips
- Stainless Steel

500366 Straight

500366-G Straight, **German**

500367 Curved

500367-G Curved, **German**



LAGRANGE SCISSORS

- Various lab procedures
- 10 cm (4 in.) Long
- S-shaped body
- Curved
- Stainless Steel

503246 LaGrange Scissors

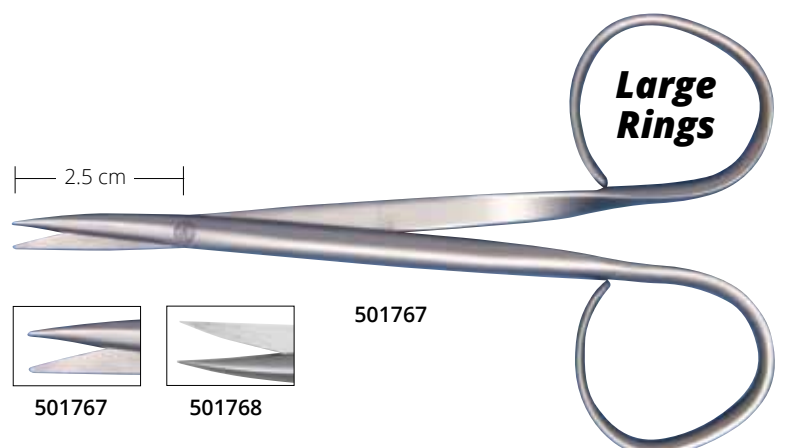


RIBBON HANDLE IRIS SCISSORS

- Designed for ophthalmology use
- Can cut through cartilage and soft tissue
- 11 cm (4.3 in.) Long
- Stainless Steel

501767 Straight

501768 Curved



PLASTIC SURGERY SCISSORS

- Various lab procedures
- 11 cm (4.3 in.) Long
- Curved blades
- Sharp/sharp tips
- Stainless Steel

503247 Plastic Surgery Scissors



IRIS SCISSORS

- 11 cm (4.3 in.) Long
- Pointed 32 mm tips
- Straight
- Titanium

555646S Iris Scissors, Titanium



OPERATING SCISSORS

- Variety of tip combinations
- For general use
- Great for tough tissue, skin, fur, cartilage
- 11.5 cm (4.5 in.) Long
- Blunt/blunt version can be used to cut gauze, tubing or sutures
- Straight
- Stainless Steel

501753 Sharp/Blunt

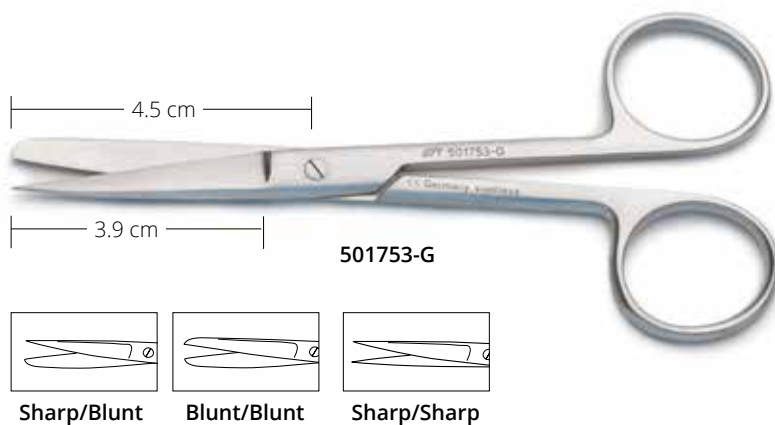
501753-G Sharp/Blunt, German

501754 Sharp/Sharp

501754-G Sharp/Sharp, German

501743 Blunt/Blunt

501743-G Blunt/Blunt, German



OPERATING SCISSORS

- Variety of tip combinations
- For general use
- Great for tough tissue, skin, fur, cartilage
- Blunt/blunt version can be used to cut gauze, tubing or sutures
- 11.5 cm (4.5 in.) Long
- Curved
- Stainless Steel

501755 Sharp/Sharp

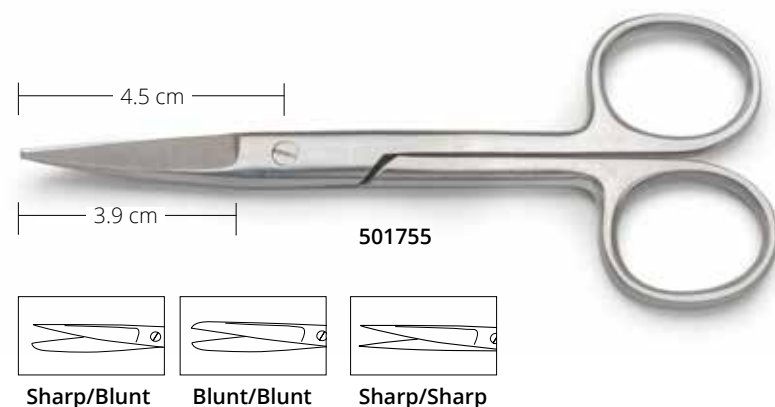
501755-G Sharp/Sharp, German

501756 Sharp/Blunt

501756-G Sharp/Blunt, German

501757 Blunt/Blunt

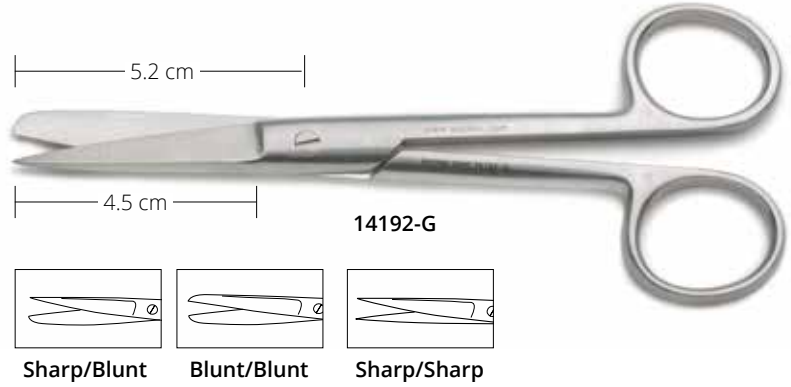
501757-G Blunt/Blunt, German



OPERATING SCISSORS

- Variety of tip combinations
- For general use
- Great for tough tissue, skin, fur, cartilage
- 14 cm (5.5 in.) Long
- Straight
- Blunt/blunt version can be used to cut gauze, tubing or sutures
- Stainless Steel

- 14192** Sharp/Blunt
- 14192-G** Sharp/Blunt, **German**
- 501218** Sharp/Sharp
- 501218-G** Sharp/Sharp, **German**
- 501219** Blunt/Blunt
- 501219-G** Blunt/Blunt, **German**

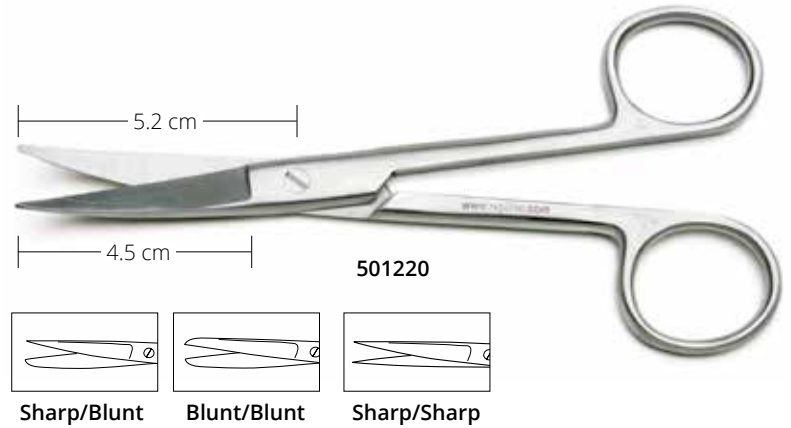


OPERATING SCISSORS

- Variety of tip combinations
- For general use
- Great for tough tissue, skin, fur, cartilage
- Blunt/blunt version can be used to cut gauze, tubing or sutures
- 14 cm (5.5 in.) Long
- Curved
- Stainless Steel

- 501220** Sharp/Sharp
- 501220-G** Sharp/Sharp, **German**
- 501221** Sharp/Blunt
- 501221-G** Sharp/Blunt, **German**
- 501222** Blunt/Blunt
- 501222-G** Blunt/Blunt, **German**

Standard and German versions may differ slightly in appearance.

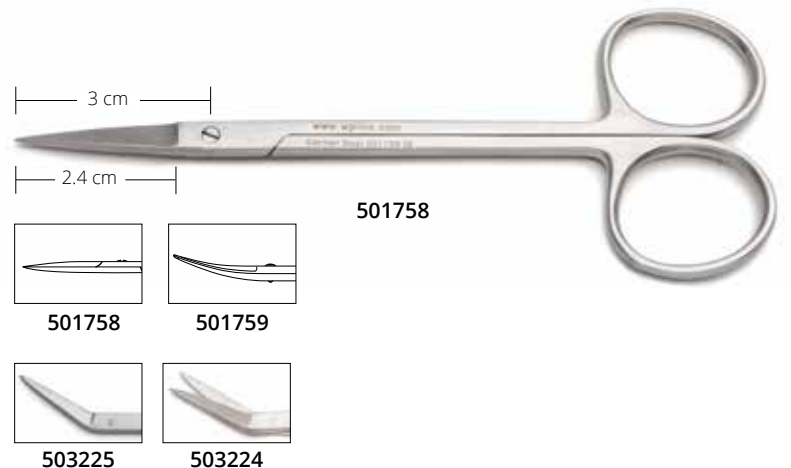


IRIS SCISSORS

- Ideal for use in microdissection, soft tissue removal or suture removal
- Can cut through small bones and cartilage
- 11.5 cm (4.5 in.) Long
- Stainless Steel

- 501758** Straight
- 501758-G** Straight, **German**
- 501759** Curved
- 501759-G** Curved, **German**
- 503225** 45° Angled, Serrated
- 503224** 35° Angled, Serrated

Standard and German versions may differ slightly in appearance.

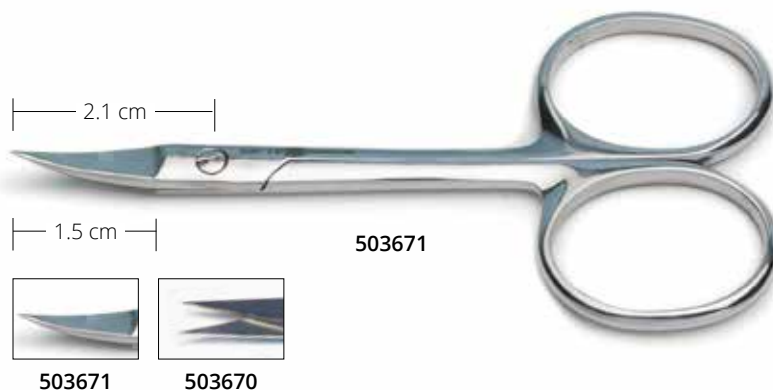


MINI IRIS SCISSORS

- Ideal for use in microdissection, soft tissue removal or suture removal
- Can cut through small bones and cartilage
- 8 cm (3.1 in.) Long
- Sharp
- Stainless Steel

503670 Straight

503671 Curved



METZENBAUM SCISSORS

- Used in dissection to cut tissue
- Rounded tips
- Stainless Steel

501747 11.5 cm (4.5 in.), Straight

501747-G 11.5 cm (4.5 in.), Straight, **German**

501748 11.5 cm (4.5 in.), Curved

501748-G 11.5 cm (4.5 in.), Curved, **German**

501252 14.5 cm (5.75 in.), Straight

501252-G 14.5 cm (5.75 in.), Straight, **German**

501253 14.5 cm (5.75 in.), Curved

501253-G 14.5 cm (5.75 in.), Curved, **German**

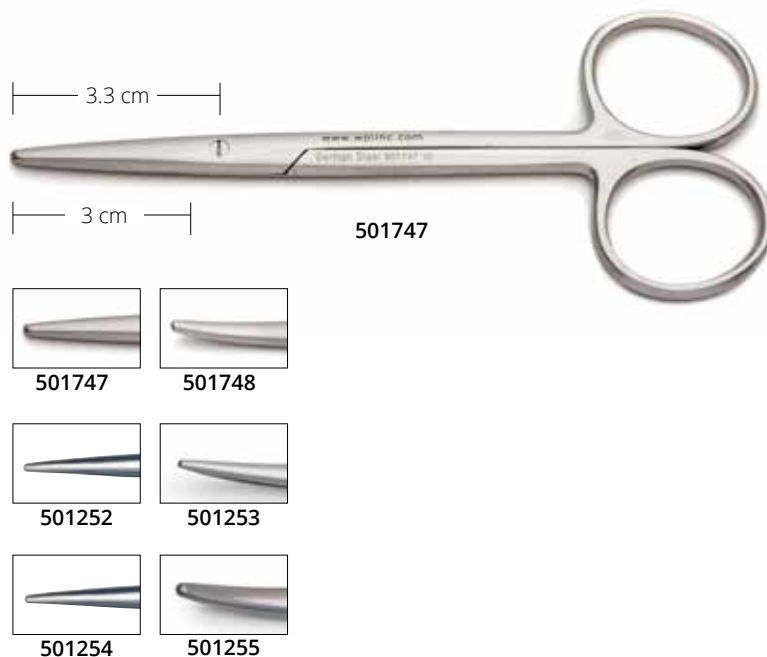
501254 17.5 cm (7 in.), Straight

501254-G 17.5 cm (7 in.), Straight, **German**

501255 17.5 cm (7 in.), Curved

501255-G 17.5 cm (7 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.



GOLDMAN FOX SCISSORS

- Used primarily in dentistry for cutting gingival tissue
- Can be used in any microdissection procedure
- 13 cm (5 in.)
- Serrated Tips
- Curved
- Stainless Steel

503256 Goldman Fox Scissors



WILMER IRIS SCISSORS

- General procedure microdissection
- 10.5 cm (4 in.) Long
- 45° Angled blades
- Stainless Steel

503248 Wilmer Iris Scissors



ANGLED SCISSORS

- Cuts through tissue, skin, fur and cartilage
- Angled blades aid visibility
- 11 cm (4.3 in.) Long
- 45° Angled to side
- Sharp/sharp
- Serrated
- Stainless Steel

503225 Angled Scissors



ANGLED SCISSORS

- Cuts through tissue, skin, fur and cartilage
- Angled blades aid visibility
- 14 cm (5.5 in.) Long
- Sharp/sharp
- 30° Angled to side
- Stainless Steel

500047 Standard

500047-G German

Standard and German versions may differ slightly in appearance.

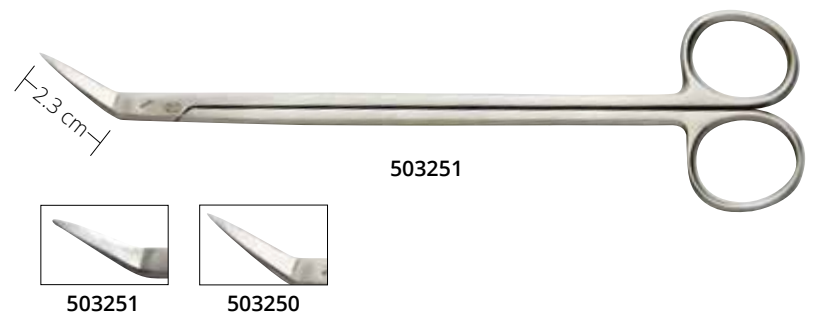


POTTS-SMITH SCISSORS

- Longer shaft allows the scissor to be used in opening of an artery or vein
- 18 cm (7 in.) Long
- Stainless Steel

503251 Angled 60°

503250 Angled 45°



WORLD PRECISION INSTRUMENTS

UK: +44 (0)1462 424700 • wpiuk@wpi-europe.com • www.wpi-europe.com

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Germany: +49 (0)6031 1602171 • wpide@wpi-europe.com • www.wpi-europe.com

China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.net

MAYO HARRINGTON SCISSORS

- Used in dissection, urology and thoracic procedures
- 14.5 cm (5.75 in.) Long
- 32 mm Tips
- Straight
- **Titanium**

555659S Mayo Harrington Scissors, **Titanium**



MAYO SCISSORS

- Heavy duty configuration used to cut deep tissue and general dissection
- 14 cm (5.5 in.) Long
- Stainless Steel

501749 Straight

501749-G Straight, **German**

501750 Curved

501750-G Curved, **German**

Standard and German versions may differ slightly in appearance.



KILNER SCISSORS

- Also known as Ragnell
- For cutting tissue and membranes
- 14 cm (5.5 in.) Long
- Flat tips
- Curved
- Stainless Steel

503307 Kilner Scissors



MAYO SCISSORS

- Heavy duty configuration used to cut deep tissue and general dissection
- 17 cm (6.75 in.) Long
- Stainless Steel

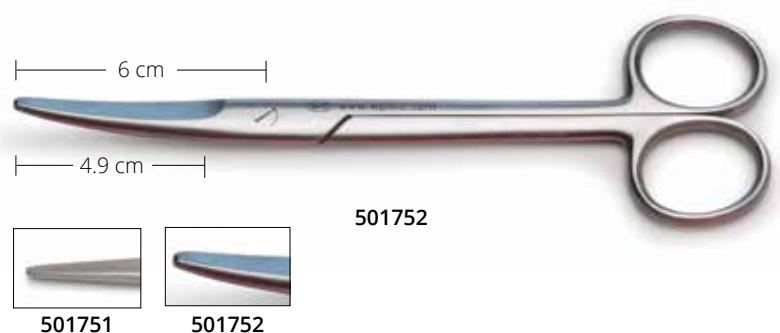
501751 Straight

501751-G Straight, **German**

501752 Curved

501752-G Curved, **German**

Standard and German versions may differ slightly in appearance.

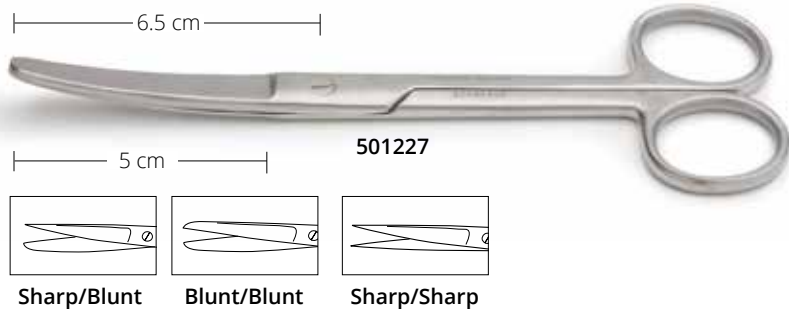


OPERATING SCISSORS

- Recommended for cutting and dissecting tissue
- Also used for cutting surgical drapes
- 16 cm (6.25 in.) Long
- Stainless Steel

- 501223** Sharp/Blunt, Straight
- 501223-G** Sharp/Blunt, Straight, **German**
- 501224** Blunt/Blunt, Straight
- 501224-G** Blunt/Blunt, Straight, **German**
- 501225** Sharp/Sharp, Straight
- 501225-G** Sharp/Sharp, Straight, **German**
- 501226** Sharp/Blunt, Curved
- 501226-G** Sharp/Blunt, Curved, **German**
- 501227** Blunt/Blunt, Curved
- 501227-G** Blunt/Blunt, Curved, **German**
- 501228** Sharp/Sharp, Curved
- 501228-G** Sharp/Sharp, Curved, **German**

Standard and German versions may differ slightly in appearance.

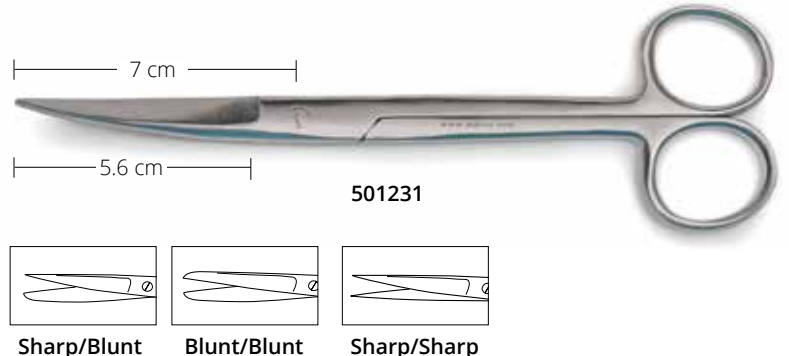


OPERATING SCISSORS

- Recommended for cutting and dissecting tissue
- Also used for cutting surgical drapes
- 18 cm (7 in.) Long
- Stainless Steel

- 500378** Sharp/Blunt, Straight
- 500378-G** Sharp/Blunt, Straight, **German**
- 500379** Blunt/Blunt, Straight
- 500379-G** Blunt/Blunt, Straight, **German**
- 501229** Sharp/Blunt, Curved
- 501229-G** Sharp/Blunt, Curved, **German**
- 501230** Blunt/Blunt, Curved
- 501230-G** Blunt/Blunt, Curved, **German**
- 15924** Sharp/Sharp, Straight
- 15924-G** Sharp/Sharp, Straight, **German**
- 501231** Sharp/Sharp, Curved
- 501231-G** Sharp/Sharp, Curved, **German**

Standard and German versions may differ slightly in appearance.



SuperCut Scissors

Our black handled surgical scissors designate our SuperCut scissors. These scissors have one on razor sharp blade and one micro-serrate blade. This construction offers a couple of advantages for surgeons.

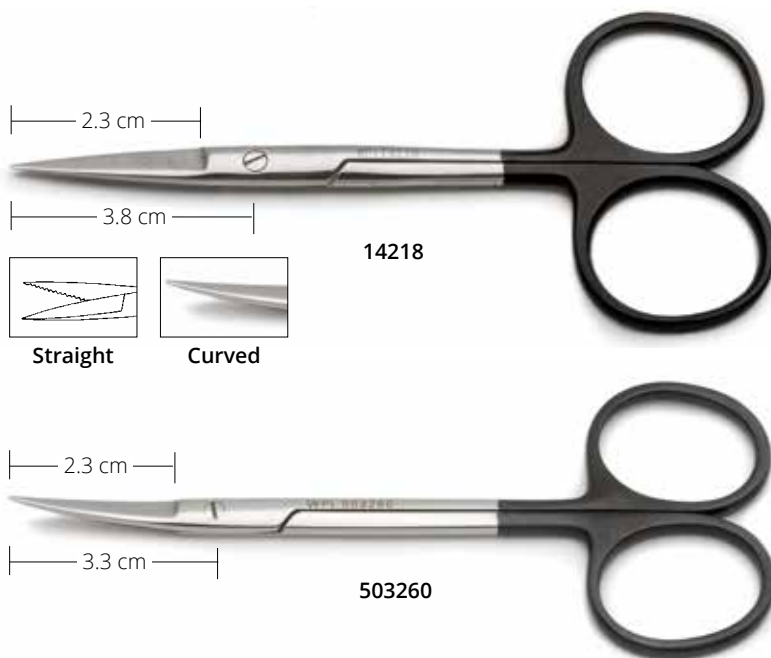
- Sharp edge gives a clean cut with minimal tissue damage
- Serrated edge actually holds the tissue to prevent it from slipping while you are making an incision

IRIS SUPERCUT SCISSORS

- One edge micro serrated, one edge honed to the sharpness of a knife edge—prevents tissue slippage
- Stainless Steel

- 14218** 10 cm (4 in.), Straight
- 14218-G** 10 cm (4 in.), Straight, **German**
- 14219** 10 cm (4 in.), Curved
- 14219-G** 10 cm (4 in.), Curved, **German**
- 503259** 11.5 cm (4.5 in.), Straight
- 503260** 11.5 cm (4.5 in.), Curved
- 14225** 12.5 cm (5 in.), Straight
- 14225-G** 12.5 cm (5 in.), Straight, **German**
- 14224** 12.5 cm (5 in.), Curved
- 14224-G** 12.5 cm (5 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.



IRIS SUPERCUT SCISSORS

- One edge micro serrated, one edge honed to the sharpness of a knife edge
- 10 cm (3.9 in.) Long
- 30° Angled blades
- Stainless Steel

- 500046** Iris Supercut Scissors

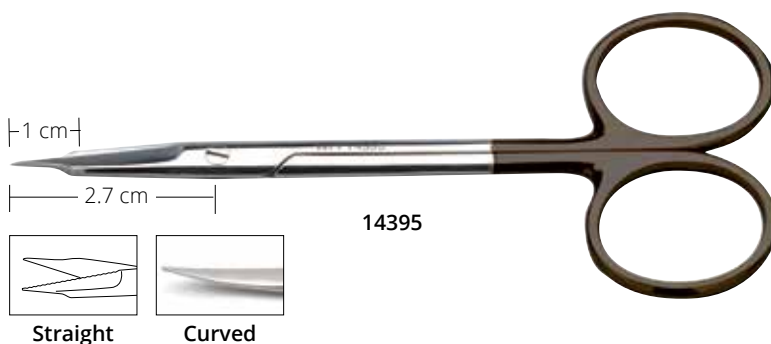


TENOTOMY SUPERCUT SCISSORS

- One edge micro serrated, one edge honed to the sharpness of a knife edge
- Stainless Steel

- 14395** 10 cm (4 in.), Straight
- 14395-G** 11.5 cm (4.5 in.), Straight, **German**
- 14396** 10 cm (4 in.), Curved
- 14396-G** 10 cm (4 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.



IRIS SUPERCUT SCISSORS, TITANIUM POWDER COATED

- More resistance to rust and body fluids
- Anti slippage serrated blade
- Used in microsurgery
- 11 cm (4.3 in.) Long
- Anti-reflective
- One serrated blade
- Stainless Steel

504487 Straight

504500 Curved



STRABISMUS SCISSORS, TITANIUM POWDER COATED

- Anti-reflective
- More resistance to rust and body fluids
- Anti slippage serrated blade
- Rounded tips
- Stainless Steel

WPB407400 12 cm (4.7 in.), Straight

WPB409000 11 cm (4.5 in.), Curved



METZENBAUM SUPERCUT SCISSORS

- Cutting and dissecting tough tissue
- One edge micro serrated, one edge honed to the sharpness of a knife edge—serration prevents slippage
- Not recommended for cutting sutures or drains
- Stainless Steel

503269 11.5 cm (4.5 in.), Straight

503270 11.5 cm (4.5 in.), Curved

14214 12 cm (5 in.), Straight

14214-G 12 cm (5 in.), Straight, **German**

14215 12 cm (5 in.), Curved

14215-G 12 cm (5 in.), Curved, **German**

503271 16 cm (6.2 in.), Straight

503272 16 cm (6.2 in.), Curved

503273 20 cm (7.75 in.), Straight

503274 20 cm (7.75 in.), Curved

503275 25 cm (9.75 in.), Straight

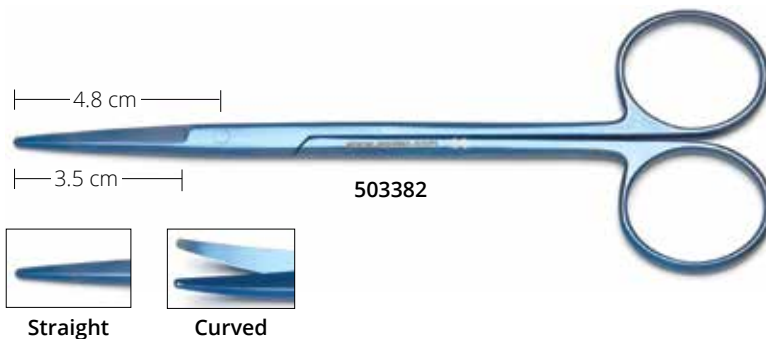
Standard and German versions may differ slightly in appearance.



METZENBAUM SUPERCUT SCISSORS

- Ideal for cutting and dissecting tough tissue
- One edge micro serrated, one edge honed to the sharpness of a knife edge—serration prevents slippage
- Not recommended for cutting sutures or drains
- **Titanium**

- 503276** 25 cm (9.75 in.), Curved
- 503382** 14 cm (5.5 in.), Straight
- 503383** 14 cm (5.5 in.), Curved

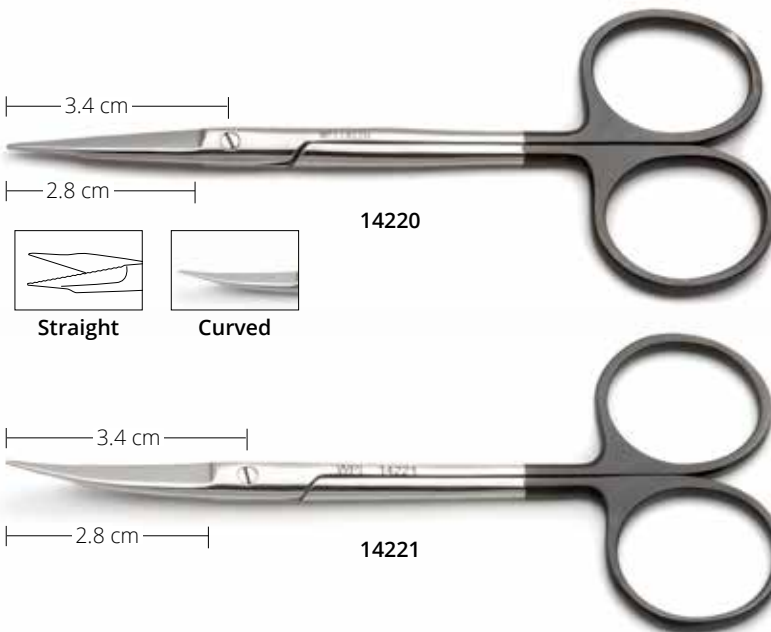


TENOTOMY SCISSORS

- Commonly used in ophthalmology, neurology and plastic surgery
- One serrated blade prevents slippage
- Beveled blade, rounded tips to avoid punctures
- Smooth and clean cuts—minimal tearing
- **Stainless Steel**

- 14220** 12.5 cm (5 in.), Straight
- 14220-G** 12.5 cm (5 in.), Straight, **German**
- 14221** 12.5 cm (5 in.), Curved
- 14221-G** 12.5 cm (5 in.), Curved, **German**
- 503265** 14 cm (5.5 in.), Straight
- 503266** 14 cm (5.5 in.), Curved
- 503267** 16 cm (6.2 in.), Straight
- 503268** 16 cm (6.2 in.), Curved

Standard and German versions may differ slightly in appearance.

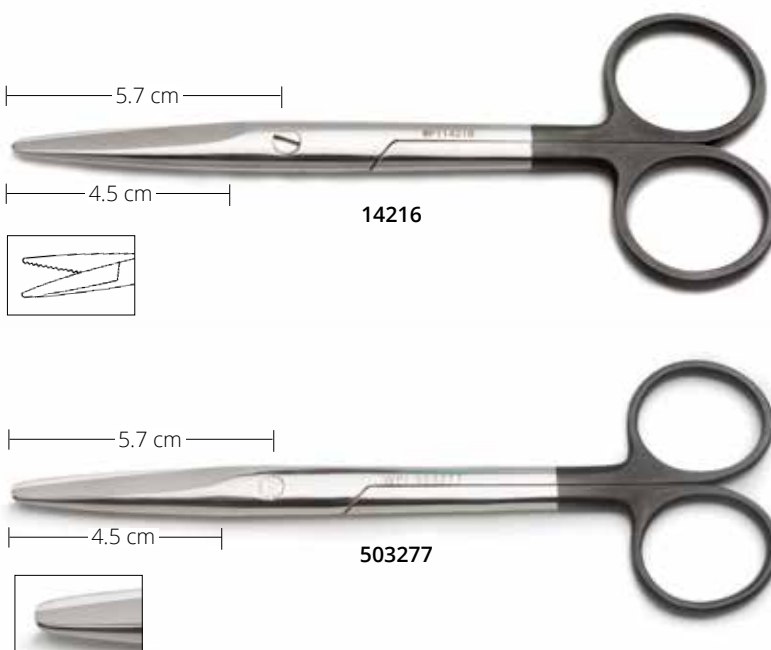


MAYO SUPERCUT SCISSORS

- Can be used to cut both heavy and delicate tissue
- One edge micro serrated, one edge honed to the sharpness of a knife edge—prevents slippage
- Beveled blade, rounded tips to avoid punctures
- Smooth and clean cuts with minimal tissue tearing
- **Stainless Steel**

- 14216** 14 cm (5.5 in.), Straight
- 14216-G** 14 cm (5.5 in.), Straight, **German**
- 14217** 14 cm (5.5 in.), Curved
- 14217-G** 14 cm (5.5 in.), Curved, **German**
- 503277** 16 cm (6.3 in.), Straight
- 503278** 16 cm (6.3 in.), Curved
- 503279** 20 cm (7.8 in.), Straight
- 503280** 20 cm (7.8 in.), Curved
- 503281** 25 cm (9.8 in.), Straight
- 503282** 25 cm (9.8 in.), Curved
- 503384** 17 cm (6.75 in.), Straight

Standard and German versions may differ slightly in appearance.

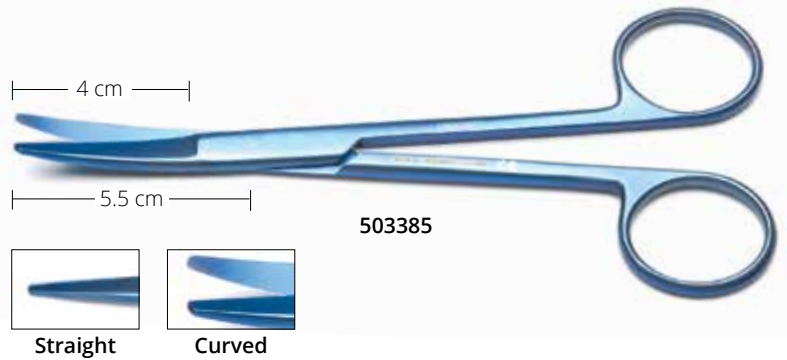


MAYO SUPERCUT SCISSORS, TITANIUM

- Can be used to cut both heavy and delicate tissue
- One edge micro-serrated, one edge honed to the sharpness of a knife edge—prevents slippage
- Beveled blade, rounded tips to avoid punctures
- Smooth and clean cuts with minimal tissue tearing
- Lighter and more resistant to rust, blood, body fluids
- 17 cm (6.75 in.) Long
- **Titanium**

503384 Straight

503385 Curved



Tungsten Carbide Scissors

Our surgical scissors with gold handles have tungsten carbide inserts in the blades. Tungsten carbide instruments are more durable, hold an edge longer and last longer than stainless steel instrument.

IRIS SCISSORS, TUNGSTEN CARBIDE

- Used for incising and dissecting
- Tungsten carbide inserts help retain blade sharpness for longer
- 11 cm (4.3 in.) Long
- Stainless Steel

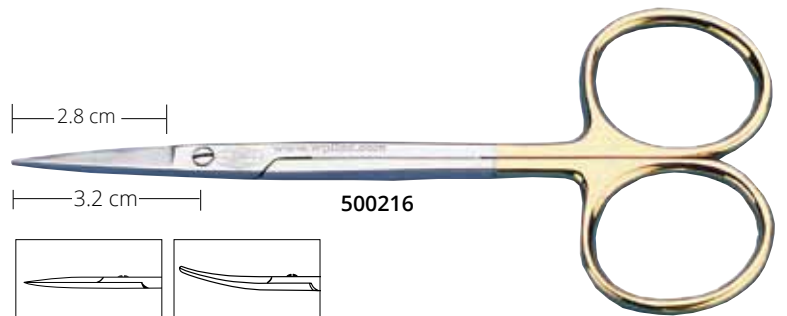
500216 Straight

500216-G Straight, **German**

500217 Curved

500217-G Curved, **German**

Standard and German versions may differ slightly in appearance.



METZENBAUM SCISSORS, TUNGSTEN CARBIDE

- Tungsten carbide inserts help retain blade sharpness longer
- Commonly used for dissecting or cutting heavy tissue
- Beveled blade, rounded tips to avoid punctures
- Stainless Steel

501739 11.5 cm (4.5 in.), Straight

501739-G 11.5 cm (4.5 in.), Straight, **German**

501740 11.5 cm (4.5 in.), Curved

501740-G 11.5 cm (4.5 in.), Curved, **German**

501733 14.5 cm (5.75 in.), Straight

501733-G 14.5 cm (5.75 in.), Straight, **German**

501734 14.5 cm (5.75 in.), Curved

501734-G 14.5 cm (5.75 in.), Curved, **German**

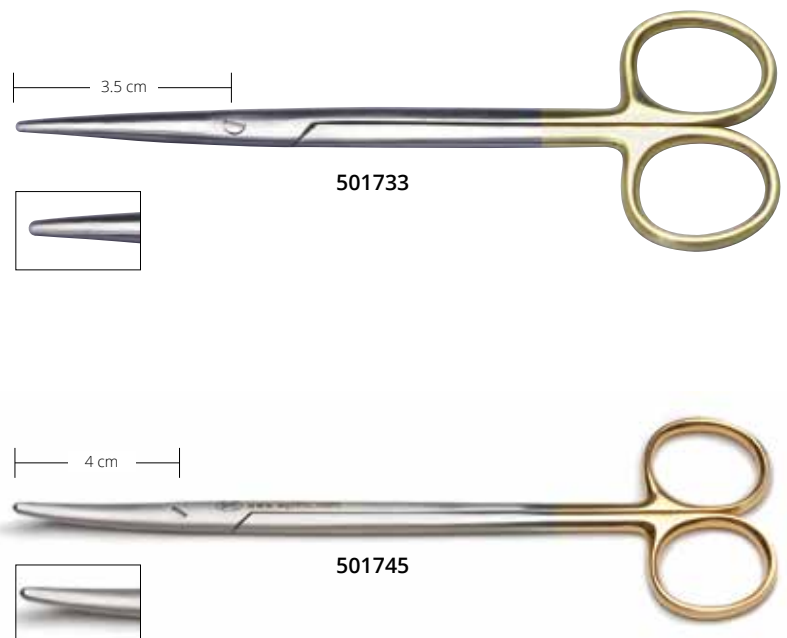
501744 17.75 cm (7 in.), Straight

501744-G 17.75 cm (7 in.), Straight, **German**

501745 17.75 cm (7 in.), Curved

501745-G 17.75 cm (7 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.



MAYO SCISSORS, TUNGSTEN CARBIDE

- Tungsten carbide inserts help retain blade sharpness longer
- Used to cut heavy tissue or suture
- Beveled blade, rounded tips to avoid punctures
- Stainless Steel

- 500218** 14 cm (5.5 in.), Straight
- 500218-G** 14 cm (5.5 in.), Straight, **German**
- 500219** 14 cm (5.5 in.), Curved
- 500219-G** 14 cm (5.5 in.), Curved, **German**
- 500220** 17.5 cm (7 in.), Straight
- 500220-G** 17.5 cm (7 in.), Straight, **German**
- 500221** 17.5 cm (7 in.), Curved
- 500221-G** 17.5 cm (7 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.



500218

Tungsten Carbide SuperCut Scissors

Our black handled surgical scissors designate our SuperCut scissors. These scissors have one on razor sharp blade and one micro-serrate blade. Surgical scissors with one black handle and one gold handle are SuperCut scissors with tungsten carbide inserts. Tungsten carbide is harder than steel, which means the instruments last longer. The SuperCut edges offer a couple of advantages for surgeons.

- Sharp edge gives a clean cut with minimal tissue damage
- Serrated edge actually holds the tissue to prevent it from slipping while you are making an incision

IRIS SUPERCUT SCISSORS, TUNGSTEN CARBIDE

- Gold blade has tungsten carbide insert — black blade is serrated
- Produces clean cut without tearing the tissue
- Used for cutting delicate or heavy tissue
- 11 cm (4.3 in.) Long
- Sharp tips
- **Tungsten Carbide** blades
- Stainless Steel

- 501263** Straight
- 501263-G** Straight, **German**
- 501264** Curved
- 501264-G** Curved, **German**

Standard and German versions may differ slightly in appearance.



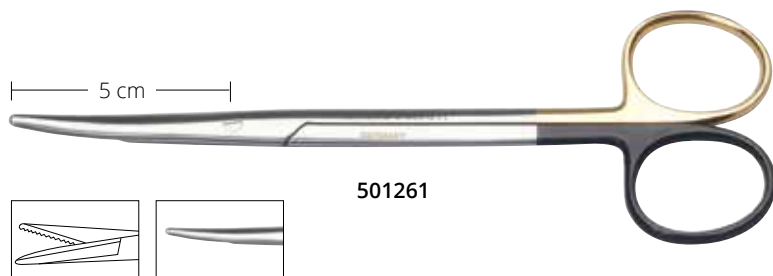
501263-G

METZENBAUM SCISSORS, SUPERCUT

- Precise cutting action of the razor-sharp SuperCut blades with the durability of Tungsten Carbide. They provide a clean, smooth cut, and the blades retain their sharpness for an extended period of time.
- Used for dissection and trimming under delicate tissue
- Beveled blade, rounded tips to avoid punctures
- **Tungsten Carbide** blades
- Stainless Steel

- 501261** 15 cm (5.9 in.), Curved
- 501261-G** 15 cm (5.9 in.), Curved, **German**
- 503359-G** 15 cm (5.9 in.), Straight **German**
- 501262** 18 cm (7 in.), Curved
- 501262-G** 18 cm (7 in.), Curved **German**

Standard and German versions may differ slightly in appearance.



501261

MAYO SUPERCUT SCISSORS

- Gold blade has tungsten carbide insert — black blade is serrated
- Used for cutting heavy tissue
- Produces clean cut with minimal tearing
- 17 cm (6.75 in.) Long
- 5.5 mm Tips
- **Tungsten Carbide** blades
- Stainless Steel

- 501259** Straight
- 501259-G** Straight, **German**
- 501260** Curved
- 501260-G** Curved, **German**

Standard and German versions may differ slightly in appearance.



501259-G

Miscellaneous Scissors

This product category includes bandage scissors, surgical wire cutting scissors, plastic handled scissors, ligature scissors, micro alligator scissors and left hand dissection scissors.

SPENCER STITCH SCISSORS

- Used for suture removal
- A hook-shaped blade is used to grab the suture and lift it for cutting
- Stainless Steel

- 500380** 9 cm (3.5 in.)
- 500380-G** 9 cm (3.5 in.), **German**
- 501703** 10.75 cm (4.25 in.)
- 501703-G** 10.75 cm (4.25 in.), **German**
- 501704** 13.25 cm (5.5 in.)
- 501704-G** 13.25 cm (5.5 in.), **German**

Standard and German versions may differ slightly in appearance.



500380

ROGER WIRE CUTTING SCISSORS

- One serrated blade and two notched blades
- For cutting fine wires
- 12 cm (4.75 in.) Long
- Stainless Steel

- 501321** Roger Wire Cutting Scissors
- 501321-G** Roger Wire Cutting Scissors, **German**

Standard and German versions may differ slightly in appearance.



501321

METZENBAUM SCISSORS

- 14 cm (5.5 in.) Long
- Curved
- Stainless steel

- WP4099** Metzenbaum Scissors



WP4099

WORLD PRECISION INSTRUMENTS

LISTER BANDAGE SCISSORS

- Angled blade with smooth tips
- Used for cutting dressings and bandages
- Stainless Steel

- 500444** 15 cm (6 in.)
- 500444-G** 15 cm (6 in.), **German**
- 501701** 8.75 cm (3.5 in.)
- 501702** 10.75 cm (4.25 in.)
- 501702-G** 10.75 cm (4.25 in.), **German**



LISTER BANDAGE SCISSORS

- Angled blade with smooth tips
- Used for cutting dressings and bandages
- 15 cm (6 in.) Long
- **Titanium**

- 555656S** Lister Bandage Scissors, Titanium



MICRO INTRAOCULAR SCISSORS

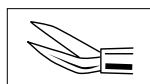
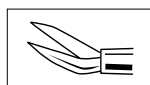
For delicate surgeries or dissections, micro scissors are extremely practical. The scissor tips of our intraocular scissors are the smallest tips available, and they have super fine blades.

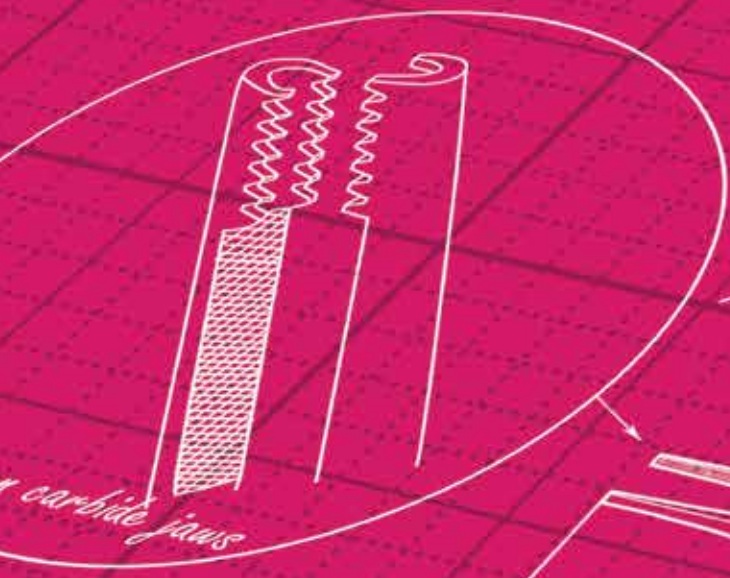
**Smallest tip
in the world!**

MICRO INTRAOCULAR SCISSORS

- 14 cm (5.5 in.) Long
- Stainless Steel

- 500372** 25° Angled Blades
- 500372-T** 25° Angled Blades, **Titanium** Handle
- 500374** 35° Angled Blades





carbide jaws

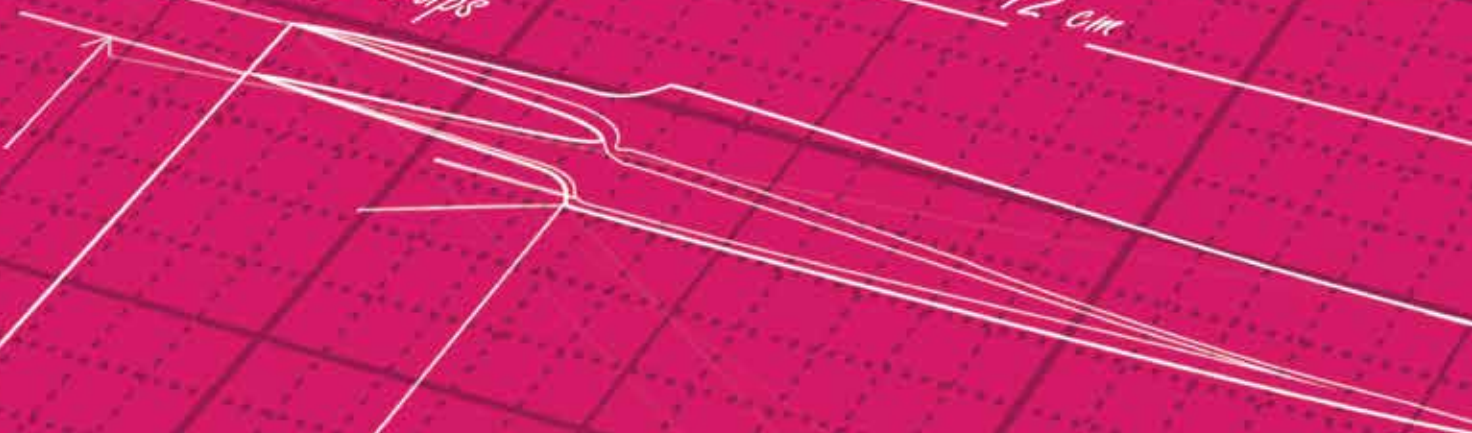
7x7 side grasping teeth

adson-brown forceps



12 cm

0.1 x 0.06 mm straight tips



8 cm

11 cm

THUMB FORCEPS

THUMB FORCEPS

Surgical forceps can be broadly divided into two categories, thumb forceps (frequently called tweezers or pinning forceps) and ring forceps (also called hemostats and locking forceps). Thumb forceps are spring forceps used by compression between your thumb and forefinger and are used for grasping, holding or manipulating body tissue. They are non-ratchet style. For example, you could use thumb forceps to hold or move tissue during surgery or to move dressings.

Thumb forceps are available with a variety of tips. The tips may be flat, serrated, cupped, ringed, grooved, diamond dusted or have teeth. The tips may also be straight, curved or angled. Serrated tweezers (thumb forceps) are designed for use with tissues. The serrations or teeth actually cause less damage than flat forceps, because it requires less pressure to maintain a firm grip. Use smooth or cross-hatched forceps for removing sutures, moving dressing or other drapes.

Commonly used thumb forceps include Adson forceps, Iris forceps and Foester forceps.

SWISS TWEEZERS

Our Swiss surgical tweezers are manufactured from fine Swiss steel. We offer a variety of tweezers and forceps.

WPI SWISS TWEEZERS

- Used in microsurgical procedures to grasp fine tissue
- Sharp tips may puncture tissue
- 10.5 cm (4.1 in.) Long
- Extra fine 90° angled tips

504508 Stainless Steel

504509 Acid-Resistant/Anti-magnetic



Tips: 0.06 × 0.02 mm

504508



504508
504509

WPI SWISS TWEEZERS

- 11 cm (4.3 in.) Long
- Handcrafted to perfection in Switzerland
- For use in general laboratory and medical applications, microscopy, precision manufacturing, electronic industry, watch making
- 0.1 x 0.06 mm Straight tips

504506 Stainless Steel

504507 Acid-Resistant/Anti-magnetic



504506



504506
504507

WPI SWISS TWEEZERS

- 11 cm (4.3 in.) Long
- Diamond Like Carbon coated tips to improve hardness, toughness and wear characteristics

504524 Ni-Cr-Mo Superalloy

504516 Ni-Cr-Mo Superalloy, Diamond Coated Tips

504515 Anti-magnetic, Diamond Coated Tips



504516



504516



504515



504524

WPI SWISS TEFLON-COATED TWEEZERS

- 11 cm (4.3 in.) Long
- 0.25 x 0.1 mm Super fine tips
- Non-porous and non-shiny surface
- Stainless steel with temperature and corrosion resistant Teflon coating

503361 Teflon-Coated Tweezers



503361

WPI SWISS TWEEZERS, HTC (HIGH TEMPERATURE COATING)

- 11 cm (4.75 in.) Long
- Smooth finish
- Heat resistant up to 620°C (1150°F)
- Very resistant to chemicals
- Stainless steel with HTC

504617 Straight #2, 2 mm Flat Tips

504619 Curved #7, Very Fine Tips



504619

504617

504619

WPI SWISS TWEEZERS

- 11.5 cm (4.5 in.) Long
- Stainless Steel

504504 0.18 x 0.2 mm Curved Tips

504505 Acid-Resistant/Anti-magnetic, Curved Tips



504504

504504
504505

WPI SWISS TWEEZERS

- 12 cm (4.75 in.) Long
- Acid Resistant
- Anti-Magnetic
- Stainless steel

504746 High Precision Tweezers, Straight, Thick

504747 High Precision Tweezers, Straight, Flat/Round Tips

504748 Biology Tweezers, Fine Tips



504748

504746

504747

WPI SWISS CUTTING TWEEZERS

- 11.5 cm (4.5 in.) Long
- Angled blades
- Stainless Steel

504744 Stainless Steel

504745 High Precision, Tungsten Carbide Tips



504745

504744

504745

WPI SWISS TWEEZERS - DELUX

- Antimagnetic, acid resistant
- Premium quality kit made in Switzerland
- Most popular instruments compiled in one kit
- For use in medical and general laboratory applications—microscopy, electronics, watch making

504518 High Precision (Kit of 5)



504518



504616

WPI SWISS TWEEZERS - PREMIUM

- Quality student kit made in Switzerland
- Most popular student instruments compiled in one kit

504616 Student Kit (5 instruments)

STUDENT FORCEPS KITS

- Quality student kits
- Stainless Steel

WP00118 3 Instruments (501979, 501978, 501981)

WP00218 5 Instruments (501979, 501978, 501981, 501974, 501977) plus canvas roll-up (501838)



501977



501978



501974



501979



501838



501981

DUMONT FORCEPS

High quality Dumont tweezers are available in a variety of metals.

Dumostar – Anti-magnetic. Dumostar is more elastic and more corrosion-resistant than the best stainless steel.

Dumoxel – Extremely flexible. Dumoxel is 95% anti-magnetic and stain resistant.

Stainless Steel – This is the standard metal for most surgical instruments.

MINI DUMONT #M5S

- 8.2 cm (3.25 in.) Long
- 0.09 x 0.05 mm Tips
- Stainless Steel

501764 Mini Dumont #M5S



501764

DUMONT #3C

- 11 cm (4.3 in.) Long
- 0.08 x 0.04 mm Tips
- Non-magnetic
- Non-corrosive
- Dumostar Steel

500064 Dumont #3C



500064

DUMONT #4

- 11 cm (4.3 in.) Long
- 0.06 x 0.02 mm Tips
- Non-magnetic
- Non-corrosive
- Dumostar Steel

500339 Dumont #4



500339

DUMONT #4

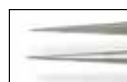
- 11 cm (4.3 in.) Long
- Stainless Steel

500340 0.13 x 0.08 mm Tips

500231 0.02 x 0.06 mm Tips



500340



500231

500340

DUMONT #5

- 11 cm (4.3 in.) Long
- Non-magnetic
- Non-corrosive
- Dumostar Steel

500085 0.025 x 0.015 mm Tips

500233 0.1 x 0.06 mm Tips



500085

WORLD PRECISION INSTRUMENTS

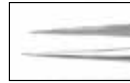
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DUMONT #5

- 11 cm (4.3 in.) Long
- 0.1 x 0.06 mm Tips
- Non-magnetic
- Dumoxel Steel

14098 Dumont #5



14098

DUMONT #5

- 11 cm (4.3 in.) Long
- Stainless Steel

501985 0.025 x 0.005 mm Tips

500341 0.05 x 0.01 mm Tips

500342 0.10 x 0.06 mm Tips



500341



DUMONT #5

- 11 cm (4.3 in.) Long
- 0.05 x 0.01 mm Tips
- Biology
- Stainless Steel

14095 Dumont #5



14095

DUMONT #5

- 11 cm (4.3 in.) Long
- 0.05 x 0.01 mm Tips
- Self-closing
- Stainless Steel

501202 Dumont #5



501202

DUMONT #5

- 11 cm (4.3 in.) Long
- Stainless Steel

14101 0.05 x 0.01 mm Tips, Bent 45°

501201 0.05 x 0.01 mm Tips, Bent 90°

500232 0.02 x 0.06 mm Tip, Half Curved



500232



14101



501201



500232

DUMONT #5

- 11 cm (4.3 in.) Long
- 0.1 x 0.06 mm Tips
- Titanium

14096 Dumont #5



14096

DUMONT #5B

- 11 cm (4.3 in.) Long
- 0.05 x 0.01 mm Tips
- Bent 45°
- Biology
- Stainless Steel

500234 Dumont #5B



500234

DUMONT #55

- 11 cm (4.3 in.) Long
- Non-corrosive
- Non-magnetic
- Dumostar Steel

500235 Dumont #55



500235

DUMONT #55

- 11 cm (4.3 in.) Long
- 0.05 x 0.01 mm Tips
- Stainless Steel

14099 Dumont #55



14099

DUMONT #7

- 11 cm (4.3 in.) Long
- 0.17 x 0.1 mm Tips
- Curved
- Serrated jaws
- Titanium

501302 Dumont #7



501302

DUMONT #7

- 11 cm (4.3 in.) Long
- 0.07 x 0.03 mm Tips
- Curved
- Self-closing
- Stainless Steel

501205 Dumont #7



501205

DUMONT FORCEPS

- 12 cm (4.75 in.) Long
- 2.0 x 0.20 mm Tips
- Wide and square
- Stainless Steel

503233 Dumont Forceps



503233

WORLD PRECISION INSTRUMENTS

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Brazil: (013) 406-29703 • info@brazil.wpiinc.com • www.wpiinc.com China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

DUMONT #1

- 12 cm (4.75 in.) Long
- 0.20 x 0.12 mm Tips
- Stainless Steel

500335 Dumont #1



500335

DUMONT #2

- 12 cm (4.75 in.) Long
- Stainless Steel

500336 0.34 x 0.14 mm Tips

500230 0.17 x 0.07 mm Tips - Medical Biology



500336

DUMONT #3

- 12 cm (4.75 in.) Long
- 0.08 x 0.04 mm Tips
- Non-corrosive
- Non-magnetic
- Dumostar Steel

500337 Dumont #3



500337

DUMONT #3

- 12 cm (4.75 in.) Long
- Stainless Steel

500338 0.17 x 0.10 mm Tips

503235 0.20 x 0.12 mm Tips



500338

DUMONT #7

- 12 cm (4.75 in.) Long
- 0.17 x 0.1 mm Tips
- Curved
- Stainless Steel

14097 Dumont #7



14097

DUMONT #7

- 12 cm (4.75 in.) Long
- 0.17 x 0.1 mm Tips
- Curved
- Titanium

14187 Dumont #7



14187

DUMONT #7

- 12 cm (4.75 in.)
- 0.17 x 0.1 mm Tips
- Curved
- Non-magnetic
- Dumoxel Steel

14188 Dumont #7



14188

DUMONT #7

- 12 cm (4.75 in.) Long
- Self-closing

501206 Dumoxel, 0.08 x 0.04 mm Tips

503234 Stainless Steel, 1.50 x 0.20 mm Tips, Flat and Rounded



501206



501206



503234

VESSEL CANNULATION

Vessel cannulation forceps are designed to insert small catheters into vessels. The small hollow jaws of the forceps ensure a secure insertion without damage.

VESSEL CANNULATION FORCEPS

- Stainless Steel

500377 10 cm (4 in.), 0.5 mm Diameter Cannula

500453 10 cm (4 in.), 1.0 mm Diameter Cannula

504765 WPI Swiss, 13 cm (5.1 in.), 0.35 mm OD Cannulation

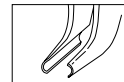
503375 Dumont, 13 cm (5.1 in.), 1.0 mm OD Cannulation



503374



500453



500377



504765



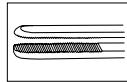
503375

DRESSING FORCEPS

Dressing forceps are used when dressing wounds. They hold gauze and other dressings. They may also be used during wound debridement to remove infected or necrotic tissue or debris from the wound. They may also be used for suturing.

GRAEFE FORCEPS

- Used in iridectomy and other ophthalmic procedures
 - Can be used microdissection or general laboratory procedures
 - 7 cm (2.75 in.) Long
 - 0.7 mm Tips
 - Serrated
 - Stainless Steel
- 14142** Straight
- 14142-G** Straight, **German**
- 501215** Curved
- 501215-G** Curved, **German**



14142

Standard and German versions may differ slightly in appearance.

NUGENT UTILITY FORCEPS

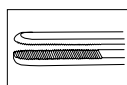
- Designed for ophthalmic procedures to grasp eye tissue
 - Tip angled at 45° allows better visibility of work area
 - A pin inside the shank limits the applied pressure
 - Can be used in general laboratory procedures
 - 10 cm (4 in.) Long
 - 1 mm Tips
 - Serrated
 - Stainless Steel
- 504473** Angled
- 504489** Straight



504473

IRIS FORCEPS

- Designed for grasping or handling tissue during ophthalmic procedures
 - Can be used in microsurgery or general laboratory procedures
 - 10 cm (4 in.) Long
 - 0.8 mm Tips
 - Serrated
 - Stainless Steel
- 15914** Straight
- 15914-G** Straight, **German**
- 15915** Curved
- 15915-G** Curved, **German**



15914

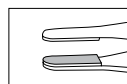
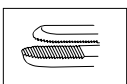
15914

15915

Standard and German versions may differ slightly in appearance.

ADSON FORCEPS

- Used to grasp tissue during stapling of the skin
 - 12 cm (4.75 in.) Long
 - Serrated
 - Stainless Steel
- 14226** 1.5 mm Tips
- 14226-G** 1.5 mm Tips, **German**
- 500222** **Tungsten Carbide** Jaws
- 500222-G** **Tungsten Carbide** Jaws, **German**



500222

14226

500222

Standard and German versions may differ slightly in appearance.

DRESSING FORCEPS

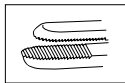
- Used for grasping tissue and for applying dressings and packing
- Serrated
- Stainless Steel

501217	12.5 cm (5 in.)
501217-G	12.5 cm (5 in.), German
500363	15.5 cm (6 in.)
500363-G	15.5 cm (6 in.), German
500364	25.5 cm (10 in.)
500364-G	25.5 cm (10 in.), German
500365	30.5 cm (12 in.)
500365-G	30.5 cm (12 in.), German

Standard and German versions may differ slightly in appearance.



500363



DRESSING FORCEPS

- Used for grasping tissue and for applying dressings and packing
- 12.5 cm (5 in.) Long
- Serrated
- Stainless Steel

15908	0.35 x 0.10 mm Tips, Straight, Sharp
15919	0.35 x 0.10 mm Tips, Straight
503283	0.5x 0.39 mm Tips, Straight, Round



15908



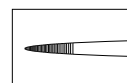
15908



15919



503283



TISSUE FORCEPS

- Used for grasping and manipulation of tissue
- Can be used for general lab procedures
- 15 cm (6 in.) Long
- Serrated
- Angled tips
- Stainless Steel

501727-G Micro Tweezer, **German**

Standard and German versions may differ slightly in appearance.



501727-G



MCINDOE DRESSING FORCEPS

- Criss-cross serration
- Designed for tissue holding, removing debris from wounds, or placing dressing and packing
- Can be used in general laboratory procedures
- 15.5 cm (6 in.) Long
- Serrated
- Stainless Steel

501268	Standard Jaws
501267	Tungsten Carbide Jaws
501267-G	Tungsten Carbide Jaws, German

Standard and German versions may differ slightly in appearance.



501267



TROUTMAN FORCEPS WITH TYING PLATFORM

- 10 cm (3.9 in.)
- Curved 0.52 mm Tip
- Stainless Steel with black coating

WPB505210 Troutman Forceps, Black



WPB505210



TISSUE FORCEPS

Tissue forceps are used in surgical procedures for grasping tissue. Often, the tips have "teeth" to securely hold a tissue. Typically tissue forceps are designed to minimize damage to biological tissue.

GRAEFE FORCEPS

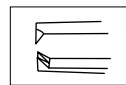
- Used in ophthalmic procedures and microsurgery
- Can be used in general lab procedures
- 7 cm (2.75 in.) Long
- 0.7 mm Tips
- 1x2 Teeth
- Stainless Steel

14140 Straight
14140-G Straight, German
14141 Curved
14141-G Curved, German

Standard and German versions may differ slightly in appearance.



14140



14141

14140

MOREFIELD SUTURE FORCEPS

- 11 cm (4.3 in.) Long
- 0.9 mm Tips
- Straight

WPF5055 Stainless Steel
WPB5056 Stainless Steel with Black Titanium Coating



WPF5055

ST. MARTIN FORCEPS

- 11 cm (4.3 in.) Long
- Straight

WPB5035 Stainless Steel with Black Titanium Coating
WPF5035 Stainless Steel



WPB5035

LESTER FORCEPS

- 1x2 Teeth
- 8.8 cm (3.5 in.) Long
- Stainless Steel

WPF5042 Lester Forceps



MICRO DISSECTING FORCEPS

- Fine tips for microsurgery
- 8.9 cm (3.5 in.) Long
- Stainless Steel

504480 Self Closing, Fine Tips

504481 Smooth, Angular Jaws, Extra Fine Tips



504480



504481

504480

KELMAN MCPHERSON FORCEPS

- Angled tips 0.41 mm
- 7.5 cm Long

WPF5050 Kelman McPherson Forceps



BISHOP HARMON FORCEPS

- Small, fine forceps used in ophthalmology for tissue grasping and manipulation
- Can be used in general lab applications
- 9 cm (3.5 in.) Long
- Stainless Steel

501775 Serrated Tips

501775-G Serrated Tips, German

501776 1x2 Teeth

501776-G 1x2 Teeth, German

Standard and German versions may differ slightly in appearance.



501775



501776

501775

SUTURE TYING FORCEPS

- Used to grasp and manipulate tissue and grasp fine sutures in ophthalmology
- Can be used in general lab procedures
- 10 cm (3.9 in.) Long
- 0.5 x 0.5 mm Tips
- 5 mm Platform
- Stainless Steel

504498 Suture Tying Forceps



504498

JAFFE FORCEPS, CURVED

- 10 cm (4 in.) Long
- 3 mm Tip
- Stainless Steel with black coating

WP505210 Jaffe Forceps, Curved

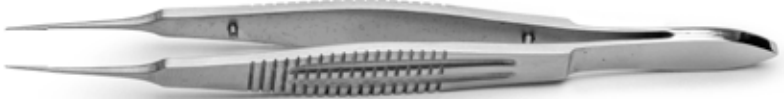


WP505210

CASTROVIEJO SUTURING FORCEPS

- 5.5 mm (2.2 in.) Tying platform
- Wide textured handle
- Stainless Steel

WP5025501 Castroviejo Suturing Forceps



WP5025501

BONN SUTURING FORCEPS

- 7.5 cm (3 in.) Long
- 0.5 mm Tying platform
- Stainless Steel

WP507835 Bonn Suturing Forceps



WP507835

TUEBINGEN SUTURE FORCEPS

- 9.5 cm (3.75 in.) Long
- 0.5 mm Tips, smooth
- Stainless Steel

WPF505000 Tuebingen Suture Forceps



WPF505000

BLACK EPOXY COATED TWEEZERS WITH PATENTED EZ LEVER

- 11 cm (4.25 in.) Long
- Strong blades
- Stainless Steel with black coating

WPB315AB 4.5 mm from tip to bend

WPB315AS 6.5 mm from tip to bend



WPB315AB



WPB315AS

WPB315AB

BONN FORCEPS WITH TYING PLATFORM

- Used in ophthalmic procedures and microsurgery
- Can be used in general lab procedures
- 7.2 cm (2.8 in.) Long
- 0.3 mm Tips
- Stainless Steel

504475 Bonn Forceps with Tying Platform



504475

IRIS FORCEPS

- Used for grasping tissue and dressing applications in microscopy
- 10 cm (4 in.) Long
- 0.8 mm Tips
- 1x2 Teeth
- Stainless Steel

15916 Straight

15916-G Straight, German

15917 Curved

15917-G Curved, German

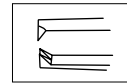
Standard and German versions may differ slightly in appearance.



15916



15917



15916

MICRO DISSECTING FORCEPS

- General tissue manipulation and dressing applications
- 10.2 cm (4 in.) Long
- Stainless Steel

504479 Angled, Serrated 0.8 mm Tips

504482 Angled, Fine Sharp Tips

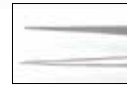
504483 Straight Fine Sharp Tips



504479



504482



504483

504479

MICRO DISSECTING IRIS FORCEPS

- For tissue grasping in ophthalmic procedures
- For general microsurgery
- 10.2 cm (4 in.) Long
- 0.5 mm Tips
- Full curve
- Serrated
- Extra delicate
- Stainless Steel

504478 Micro Dissecting Iris Forceps



504478

FOERSTER TISSUE FORCEPS

- Used mostly to apply dressing and strips over wounds
- Can be used in general microsurgery
- 10.2 cm (4 in.) Long
- 0.5 mm Tips
- Serrated
- Stainless Steel,

504476 Straight

504477 Curved



504477

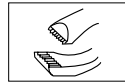
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GRAEFE FIXATION FORCEPS

- Ophthalmic forceps used to hold the eyelid
- Vertical serration holds the tissue firmly
- 11.5 cm (4.5 in.) Long
- 4 mm Tips
- 5x5 Teeth
- Stainless Steel

501988 Graefe Fixation Forceps



501988

MICRO ADSON TISSUE FORCEPS

- Used for grasping or holding delicate tissue
- All Adson forceps are the same length, differentiated by very different inner tips
- 12 cm (4.75 in.) Long
- 0.8 mm Fine point tips
- Stainless Steel

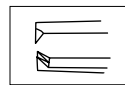
501244 1x2 Teeth

501244-G 1x2 Teeth, **German**

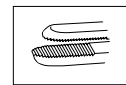
501245 Serrated Tips

501245-G Serrated Tips, **German**

Standard and German versions may differ slightly in appearance.



501244



501245

501244

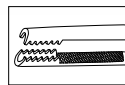
ADSON-BROWN FORCEPS

- Used often in plastic or hand surgery
- The two rows of teeth interlock when closed
- 12 cm (4.75 in.)
- 7x7 Side teeth
- Tungsten carbide maws
- Stainless Steel

500177 Adson-Brown Forceps

500177-G Adson-Brown Forceps, **German**

Standard and German versions may differ slightly in appearance.



500177

ADSON FORCEPS

- Teeth at the tips aid in grasping and holding delicate tissue
- Can also be used in general lab procedures
- 12 cm (4.75 in.) Long
- 1x2 Teeth
- Stainless Steel

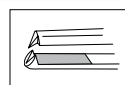
500092 1.5 mm Tips

500092-G 1.5 mm Tips, **German**

500178 **Tungsten Carbide** Jaws

500178-G **Tungsten Carbide** Jaws, **German**

Standard and German versions may differ slightly in appearance.



500178

TISSUE FORCEPS

- Used mostly for grasping heavy tissue during wound closure
- Can also be used in general lab procedures
- 12.5 cm (5 in.) Long
- 1 x 2 Teeth
- Stainless Steel

- 15918** Straight
- 15918-G** Straight, **German**
- 501216** Curved
- 501216-G** Curved, **German**
- 501742-G** Straight, **German**
- 501741-G** Straight, **German**

Standard and German versions may differ slightly in appearance.



15918



15918



501216-G

501741-G
501742-G

TISSUE FORCEPS

- For grasping heavy tissue
- 14.5 cm (5.7 in.) Long
- Stainless Steel

- 503311** 4 x 5 Teeth
- 503312** 3 x 4 Teeth
- 503313** 2 x 3 Teeth



503311



503311



503312



503313

DEBAKEY FORCEPS

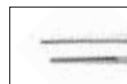
- Atraumatic tip — A set of very fine serrations along the length of one tip interlock with a single row of serrations on the other tip, gripping tissue, vessels and organs without damage
- Considered a cardiac and vascular forceps
- 15 cm (6 in.) Long
- 1.5 mm Wide
- Stainless Steel

- 501239** Straight
- 501239-G** Straight, **German**
- 501996** 45° Angled Tips

Standard and German versions may differ slightly in appearance.



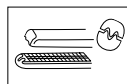
501239



501239



501996



DEBAKEY FORCEPS

- 16 cm (6.25 in.) Long
- Micro
- 1.2 mm Wide
- Atraumatic
- Stainless Steel

- 503212** Straight
- 503213** Angled



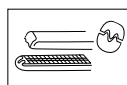
503213



503212



503213



WORLD PRECISION INSTRUMENTS

GILLIES DISSECTING FORCEPS

- Used to grasp tissue in general surgery
- Cross-serrated tips with teeth
- 15.5 cm (6 in.) Long
- 1 x 2 Teeth
- Stainless Steel



501265

501265 Tungsten Carbide Jaws, Standard

501265-G Tungsten Carbide Jaws, German

501266 Gillies Dissecting Forceps

501266-G Gillies Dissecting Forceps, German



501265



501266

Standard and German versions may differ slightly in appearance.

MISCELLANEOUS FORCEPS

These unique instruments are well suited for unusual tasks or special circumstances.

RING-TIPPED FORCEPS WITH ADJUSTMENT SCREW

- For gripping and holding tissue
- Used in ophthalmology to evert the eyelid
- Can be used in general laboratory procedures
- 10 cm (3.9 in.) Long
- Stainless Steel



503203

503202 4.8 mm ID, 6.0 mm OD

503203 2.2 mm ID, 3.0 mm OD



503202



503203

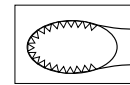
RUSSIAN FORCEPS

- Round tips with star burst serrations
- Used to grasp dense tissue and during wound closure
- Can be used in general laboratory procedures
- 15.25 cm (6 in.) Long
- 7 mm Diameter oval tips
- Serrated
- Stainless Steel



501987

501987 Russian Forceps



RUBBER-TIPPED FORCEPS

- For rodent handling
- 21 cm (8.25 in.)
- Stainless Steel



503370

503370 Rubber-Tipped Forceps

504645 Replacement Rubber Tips



504645

FRANCIS CHALAZION WITH LOCKING THUMB SCREW

- Open upper blade with inside dimension of 19 mm x 12 mm
- 9 cm (3.5 in.) Long
- Stainless Steel



WP505600

WP505600 Francis Chalazion with Locking Thumb Screw

DELRIN PLASTIC TWEEZERS

- Resistant to moisture, solvents and other chemicals
- FDA approved Delrin for use in the food industry
- Can be used in general lab applications, electronics, microscopy

503362 11.8 cm (4.6 in.), Curved



503362

REVERSE ACTION TWEEZER

- Used mostly where a high precision self-closing is needed
- Good for general lab applications, microscopy and assembly applications
- 16.5 cm (6.5 in.) Long
- 7.5 cm Tips
- 0.06 cm Jaw
- Stainless Steel

504501 Reverse Action Tweezer



504501

VACUUM PICK-UP FORCEPS

Pick up and handle flat objects, such as microscope slide cover slips. It lifts up to 80 g. No batteries are required. Vacuum produced by finger button. It includes one straight machined metal needle, one angled metal needle, three spare rubber cups (4, 6, 9 mm) and lubricant.

- 17.5 cm Long
- 1.5 cm Diameter handle

504523 Vacuum Pick-Up Forceps



504523

WPI SWISS CARBON FIBER-TIPPED FORCEPS

- 13 cm (5.1 in.) Long
- Antimagnetic body, replaceable carbon fiber tips
- Ceramic contains no metal, leaves no trace metal residue on tissue
- Not electrically conductive
- Corrosion-resistant
- Low heat conductivity, high heat resistance
- Stainless Steel

504517 Carbon Fiber-Tipped Forceps

504527 Replacement Carbon Fiber Tips



504517

ROUND HOLLOW HANDLED FORCEPS

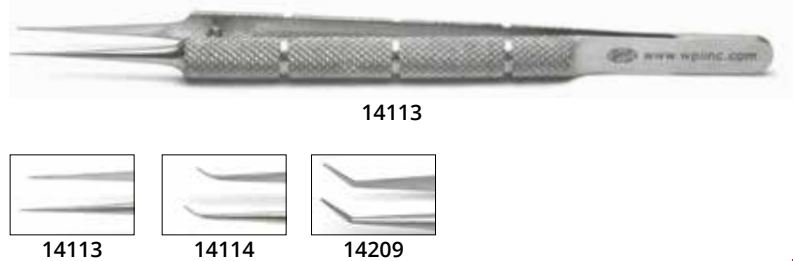
Hollowing out the handles of long, round-handled instruments decreases their overall weight. This makes them efficient and non-fatiguing when operating under a microscope. The round shape of the handle also makes these surgical instruments easier to manipulate during surgery. Made from high quality stainless steel, these instruments are an excellent addition to a microsurgical instrument kit.

ROUND, HOLLOW HANDLE FORCEPS

- 15 cm (6 in.) Long
- Stainless Steel

- 14113** 0.15 mm Straight
- 14113-G** 0.15 mm, Straight, **German**
- 14114** 0.3 mm Tips Curved
- 14114-G** 0.3 mm Tips, Curved, **German**
- 14209** 0.15 mm Tips, 45° Angle

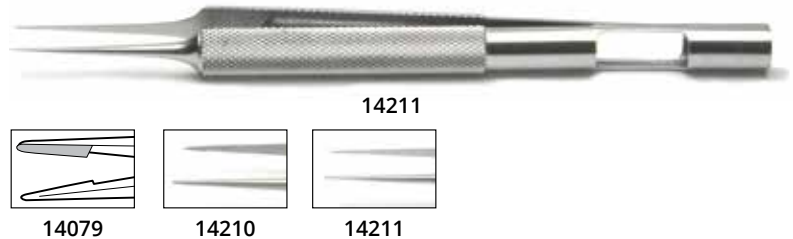
Standard and German versions may differ slightly in appearance.



ROUND, HOLLOW HANDLE FORCEPS

- 14 cm (5.5 in.) Long
- Straight
- Stainless Steel

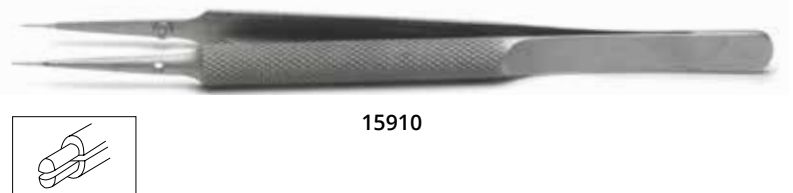
- 14079** 0.15 mm Tips, Smooth
- 14210** 0.3 mm Tips with Tying Platform
- 14211** 0.15 mm Tips



DILATOR FORCEPS

- Used in microsurgery, hand surgery, plastic surgery, neurosurgery
- 14 cm (5.5 in.) Long
- Straight
- 0.15 mm Tips
- Stainless Steel

- 15910** Dilator Forceps



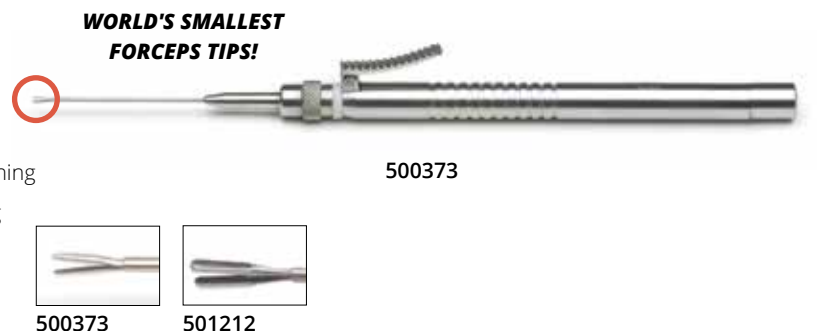
MICRO INTRAOCULAR FORCEPS

Our micro forceps have small tips, 0.25 mm thick and 2.5 mm long. These forceps are designed for maximum control in confined spaces or for delicate surgeries.

MICRO INTRAOCULAR FORCEPS

- Mostly used in ophthalmology to manipulate tissue or sutures
- Can be used in general microsurgery
- 14 cm (5.5 in.) Long
- Stainless Steel

- 500373** 2.5 × 0.3 × 0.25 mm Jaws (l×w×t), 1.5 mm Max. Opening
- 501212** 3 × 0.6 × 0.4 mm Jaws (l×w×t) 1.4 mm Max. Opening



FILTERS AND GEL FORCEPS

Filter and gel forceps are designed for the handling delicate silicon wafers, scintillation discs, glass slides, coverslips and gels. These forceps have smooth, flat tips to avoid scratching or damaging what they grasp.

FILTER FORCEPS

- Polypropylene finger grip — great for gel handling
- 11 cm (4.3 in.) Long
- Straight
- Flat jaw
- Stainless Steel

500455 Filter Forceps



FILTER FORCEPS

- Great for gel handling
- 11 cm (4.3 in.) Long
- Straight
- Flat jaw
- Stainless Steel

500456 Filter Forceps

500456-G Filter Forceps, **German**

Standard and German versions may differ slightly in appearance.



FILTER FORCEPS

- Great for gel handling
- 11 cm (4.3 in.) Long
- Bent
- Flat jaw
- Self-closing
- Stainless Steel

500457 Filter Forceps



TITANIUM FORCEPS

100% anti-magnetic, corrosion-resistant, lightweight and strong, titanium alloy is ideal for biological and medical applications. Titanium has the tensile strength of carbon steel and is completely resistant to corrosion from nitric acid, chloride, salt water, and industrial and organic chemicals. Titanium is more flexible and 40% lighter than Inox. When heated or cooled, the dimensions of titanium alloy change less than half of what stainless steel alloys will, making titanium surgical instruments much more durable. Titanium is stain-free and temperature resistant up to 430°C. Titanium tools are the premium choice for corrosive environments or MRI applications.

- 100% non-corrosive (great for sea water procedures)
- 40% lighter than stainless steel (reduces hand fatigue)
- 100% non-magnetic (MRI compatible)
- Anodized, non-glare blue finish

FORCEPS

- 8.5 cm (3.3 in.) Long
- 12 mm Tips
- 4.5 mm Tying platform
- Straight
- **Titanium**

WP5000 Forceps



WORLD PRECISION INSTRUMENTS

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COLIBRI SUTURING FORCEPS WITH TYING PLATFORM

- 7.5 cm (3 in.) Long
- 1x2 140° Teeth
- **Titanium**

WP1520 Colibri Suturing Forceps with Tying Platform



WP1520



KELMAN-MCPHERSON FORCEPS

- 8.5 cm (3.3 in.) Long
- 45° Angled Tips
- 7.5 mm Smooth Jaw
- **Titanium**

WP5030 Kelman-McPherson Forceps



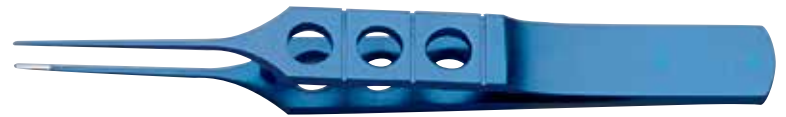
WP5030



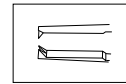
FORCEPS WITH TYING PLATFORM

- 8.5 cm (3.3 in.) Long
- 12 mm Tips
- 5 mm Tying platform
- Straight with 0.12 mm teeth (1x2)
- **Titanium**

WP2000 Forceps with Tying Platform



WP2000



MCPHERSON FORCEPS

- 8.5 cm (3.3 in.) Long
- 45° Angled tips
- **Titanium**

WP5010 8.5 cm (3.3 in.), 4.5 mm Tying Platform

WP5030L 11.5 cm (4.5 in.), 6 mm Tying Platform



WP5010



BISHOP HARMON FORCEPS

- 9 cm (3.5 in.) Long
- 1 x 2 Teeth
- **Titanium**

WP3510 Bishop Harmon Forceps



WP3510



JEWELERS #5 FORCEPS

- 11 cm (4.3 in.) Long
- Titanium

WP6560 0.05 x 0.01 mm Tips, Angled 45°

WP6550 0.01 x 0.06 mm Tips, Straight



WP6560



WP6550



WP6560

JEWELERS #7 FORCEPS

- 11 cm (4.3 in.) Long
- 0.07 x 0.01 mm Tips
- Titanium

WP6570 Jewelers #7 Forceps



WP6570



FECHTNER CONJUNCTIVA FORCEPS

- 11 cm (4.3 in.) Long
- 1 mm Rings
- Titanium

WP1820 Fechtner Conjunctiva Forceps



WP1820



STRAIGHT FORCEPS

- 11.5 cm (4.5 in.) Long
- Titanium

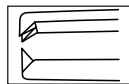
WP2020 1 x 2, 0.12 mm Teeth, 5 mm Tying Platform

WP500097 Calibri Forceps with 6 mm Tying Platform

WP2020-1 Straight Forceps, 1x2 0.12 mm Teeth, 4 mm Tying Platform



WP2020



WP2020



WP500097



WP2020-1

ADSON FORCEPS

- 12 cm (4.7 in.) Long
- 1 mm Serrated Tips
- Titanium

WP4152 Adson Forceps



WP4152



STUDENT FINE TWEEZERS

Made of quality stainless steel, these tweezers are useful for general dissections where ultra fine tips are not necessary. These forceps are perfect for students. Economically priced, they are affordable enough for everyone to have their own instruments. They may be used in microdissection, microscopy and electronics, as well as general lab procedures.

STUDENT TWEEZER, STYLE 1

- 11 cm (4.3 in.) Long
- 0.45 x 0.55 mm Tips
- Stainless Steel

501974 Style 1

501974-6 Style 1, 6 per pack



STUDENT TWEEZER, STYLE 2

- 11 cm (4.3 in.) Long
- 0.40 x 0.55 mm Tips
- Stainless Steel

501975 Style 2

501975-6 Style 2, 6 per pack



STUDENT TWEEZER, STYLE 3

- 11 cm (4.3 in.) Long
- 0.20 x 0.40 mm Tips
- Stainless Steel

501976 Style 3

501976-6 Style 3, 6 per pack



STUDENT TWEEZER, STYLE 3C

- 11 cm (4.3 in.) Long
- 0.40 x 0.45 mm Tips
- Stainless Steel

501977 Style 3C

501977-6 Style 3C, 6 per pack



STUDENT TWEEZER, STYLE 4

- 11 cm (4.3 in.) Long
- 0.40 x 0.45 mm Tips
- Stainless Steel

501978 Style 4

501978-6 Style 4, 6 per pack



STUDENT TWEEZER, STYLE 5

- 11 cm (4.3 in.) Long
- 0.40 x 0.45 mm Tips
- Stainless Steel

501979 Style 5

501979-6 Style 5, 6 per pack



STUDENT TWEEZER, STYLE 6

- 11 cm (4.3 in.) Long
- 0.40 x 0.50 mm Tips
- Stainless Steel

501980 Style 6

501980-6 Style 6, 6 per pack



STUDENT TWEEZER, STYLE 7

- 11 cm (4.3 in.) Long
- 0.40 x 0.50 mm Tips
- Stainless Steel

501981 Style 7

501981-6 6 per pack



TROTMANN FORCEPS

- 10 cm Long
- Curved
- Serrated tips

WP5052 Trotmann Forceps



HORTICULTURAL FORCEPS

- 12.5 cm (5 in.) Long
- Wide, Angled Tips, 0.4 mm Thick
- Stainless Steel

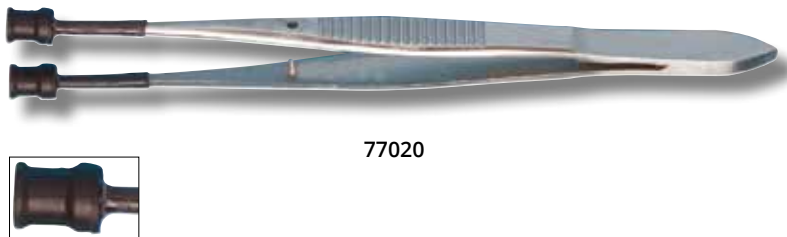
503411 Horticultural Forceps



GLASS HOLDING FORCEPS

- 10 cm Long
- Good for holding capillary glass or fine tubing

77020 Glass Holding Forceps

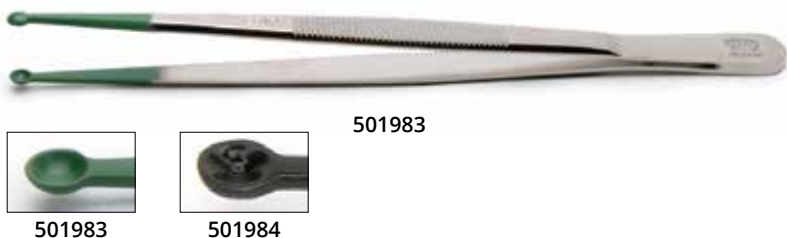


CUPPED FORCEPS

- Atraumatic
- Holding organs or delicate tissue
- Non stick surface

501983 Teflon Coated

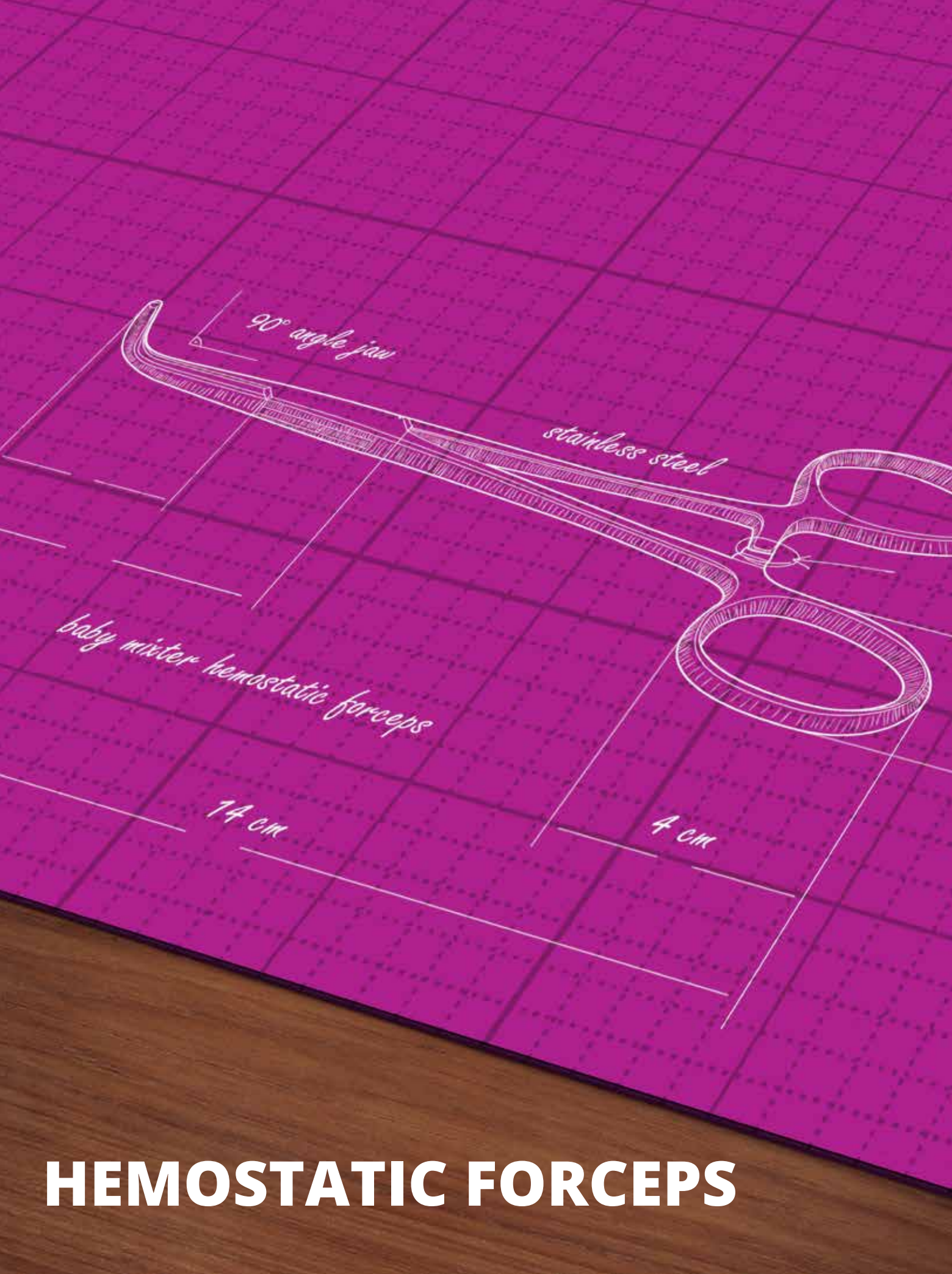
501984 Ceramic Coated



WORLD PRECISION INSTRUMENTS

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90° angle jaw

stainless steel

baby mixer hemostatic forceps

14 cm

4 cm

HEMOSTATIC FORCEPS

HEMOSTATIC FORCEPS

Ring forceps (also called hemostatic forceps) are hinged and look like ring scissors. Frequently, hemostatic forceps have a locking mechanism, called a ratchet, which is used for clamping. The jaws of the locking forceps gradually come together as each increment of the ratchet is employed.

- Used to compress blood vessels or other tubular structures to obstruct the flow of blood or fluids
- Used for small, delicate vessels
- Full serrated jaws
- Used in ophthalmology, biopsy, skin grafting or general surgery and lab procedures

MICRO MOSQUITO HEMOSTATIC FORCEPS

- 12.5 cm (5 in.) Long
- Serrated
- 0.4 x 0.8 mm Tips
- Stainless Steel

500451 Straight

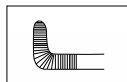
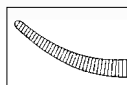
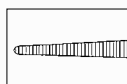
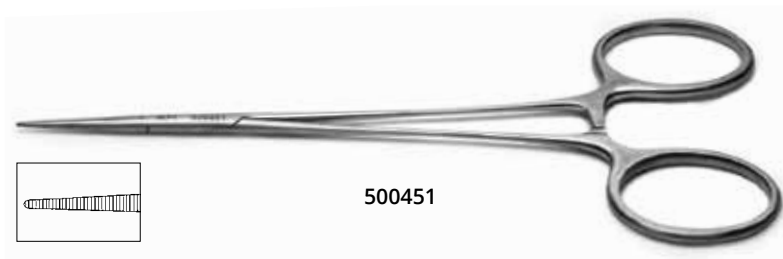
500451-G Straight, German

500452 Curved

500452-G Curved, German

503360 Right-Angle

Standard and German versions may differ slightly in appearance.

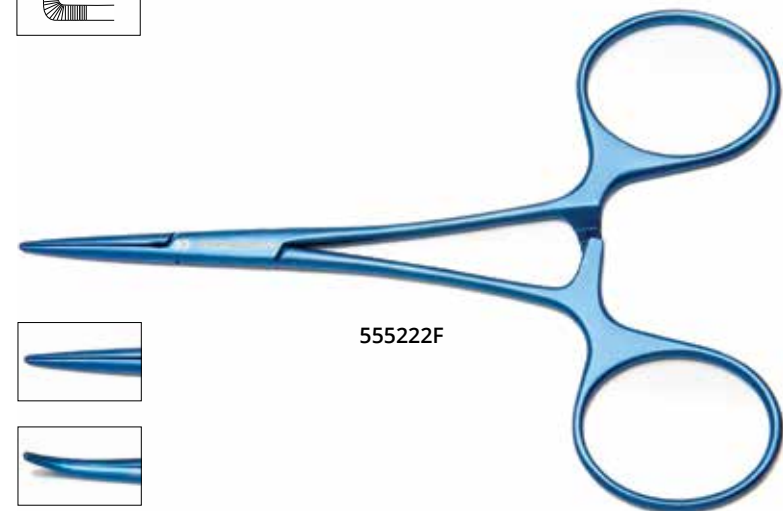


HALSTED MOSQUITO HEMOSTATIC FORCEPS

- 9.5 cm (3.7 in.) Long
- Titanium

555222F Straight

555223F Curved



RADOLF HOLDING FORCEPS

- 13.5 cm (5.3 in.) Long
- Curved
- Serrated jaw
- Stainless Steel

503220 Radolf Holding Forceps

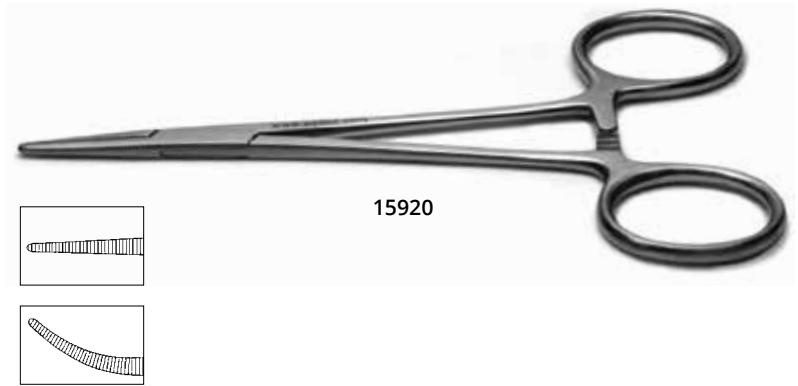


HALSTED MOSQUITO HEMOSTATIC FORCEPS

- Serrated
- Stainless Steel

15920	12.5 cm (5 in.), Straight
15920-G	12.5 cm (5 in.), Straight, German
15921	12.5 cm (5 in.), Curved
15921-G	12.5 cm (5 in.), Curved, German
501705	9 cm (3.5 in.), Straight
501705-G	9 cm (3.5 in.), Straight, German
501291	9 cm (3.5 in.), Curved
501291-G	9 cm (3.5 in.), Curved, German

Standard and German versions may differ slightly in appearance.



MIXTER HEMOSTATIC FORCEPS

- 14 cm (5.5 in.) Long
- "Baby"
- Right Angle
- Stainless Steel

501240	Mixer Hemostatic Forceps
501240-G	Mixer Hemostatic Forceps, German

Standard and German versions may differ slightly in appearance.

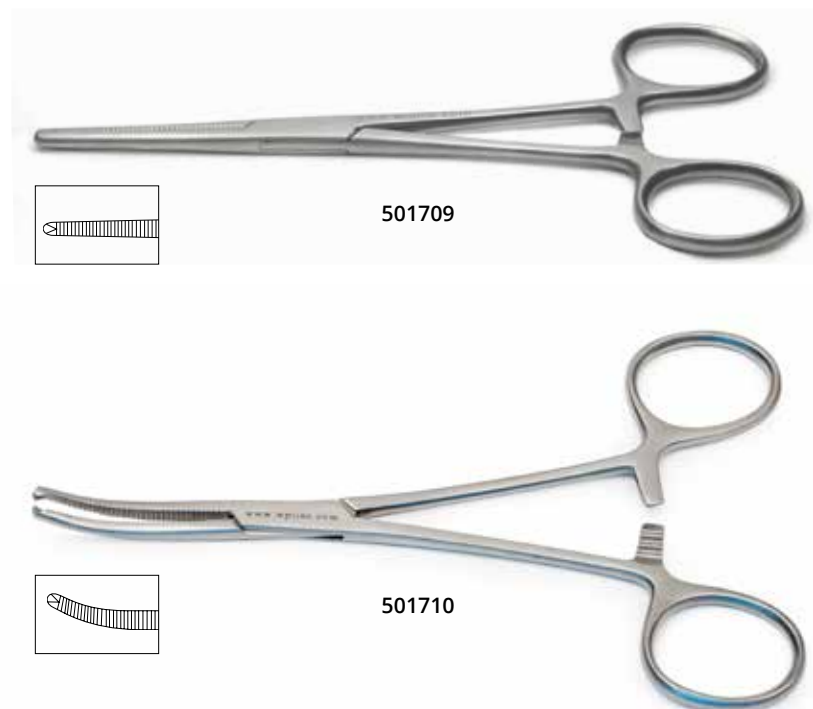


ROCHESTER-OSCHNER HEMOSTATIC FORCEPS

- Serration on the entire length of the jaws
- Good grip on heavy/tough tissue
- Stainless Steel

501709	14 cm (5.5 in.), Straight
501709-G	14 cm (5.5 in.), Straight, German
501710	14 cm (5.5 in.), Curved
501710-G	14 cm (5.5 in.), Curved, German
501326	16 cm (6.25 in.), Straight
501326-G	16 cm (6.25 in.), Straight, German
501711	16 cm (6.25 in.), Curved
501711-G	16 cm (6.25 in.), Curved, German

Standard and German versions may differ slightly in appearance.

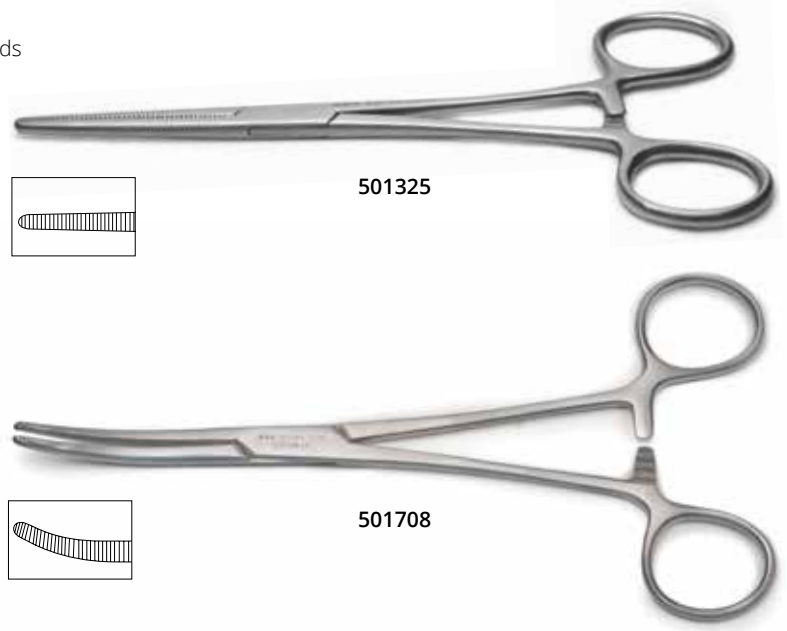


ROCHESTER-PEAN HEMOSTATIC FORCEPS

- Also known as Mayo or Pean
- Used for clamping or occluding of large vessels on deeper wounds
- Heavy construction with broad, serrated jaw
- Stainless Steel

501325	16 cm (6.25 in.), Straight
501325-G	16 cm (6.25 in.), Straight, German
501706	16 cm (6.25 in.), Curved
501706-G	16 cm (6.25 in.), Curved, German
501707	19 cm (7.5 in.), Straight
501707-G	19 cm (7.5 in.), Straight, German
501708	19 cm (7.5 in.), Curved
501708-G	19 cm (7.5 in.), Curved, German

Standard and German versions may differ slightly in appearance.

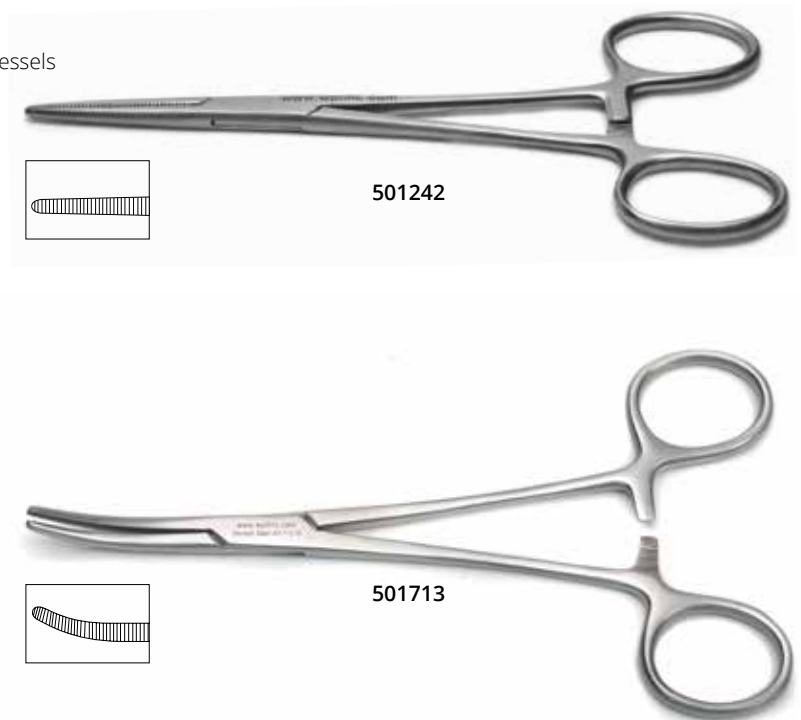


CRILE HEMOSTATIC FORCEPS

- Mostly used before ligation or cauterization to occlude blood vessels
- Serration on entire length of jaws
- Stainless Steel

501242	14 cm (5.5 in.), Straight
501242-G	14 cm (5.5 in.), Straight, German
501730	14 cm (5.5 in.), Curved
501730-G	14 cm (5.5 in.), Curved, German
503227	14 cm (5.5 in.), Straight/Smooth
503228	14 cm (5.5 in.), Curved/Smooth
501712	15.9 cm (6.25 in.), Straight
501712-G	15.9 cm (6.25 in.), Straight, German
501713	15.9 cm (6.25 in.), Curved
501713-G	15.9 cm (6.25 in.), Curved, German
503230	15.9 cm (6.25 in.), Straight/Smooth
503229	15.9 cm (6.25 in.), Curved/Smooth

Standard and German versions may differ slightly in appearance.

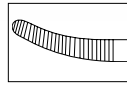
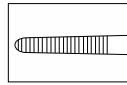


KELLY HEMOSTATIC FORCEPS

- Serration half way up the tip
- Used for clamping and occluding
- Stainless Steel

- 501241** 14 cm (5.5 in.) Straight
501241-G 14 cm (5.5 in.) Straight, **German**
501288 14 cm (5.5 in.), Curved
501288-G 14 cm (5.5 in.), Curved, **German**
501714 15.5 cm (6 in.), Straight
501714-G 15.5 cm (6 in.), Straight, **German**
501715 15.5 cm (6 in.), Curved
501715-G 15.5 cm (6 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.

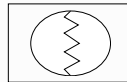


ALLIS TISSUE FORCEPS

- 15 cm (6 in.) Long
- Interlocking 4x5 teeth on the tip
- Used to hold slippery tissue or organs during electrosurgery
- Stainless Steel

- 501324** Allis Tissue Forceps
501324-G Allis Tissue Forceps, **German**

Standard and German versions may differ slightly in appearance.



BABCOCK TISSUE FORCEPS

- Non-perforated tips
- Used to hold delicate tissue
- Atraumatic

- 504218** Babcock Tissue Forceps

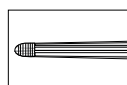
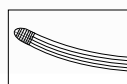


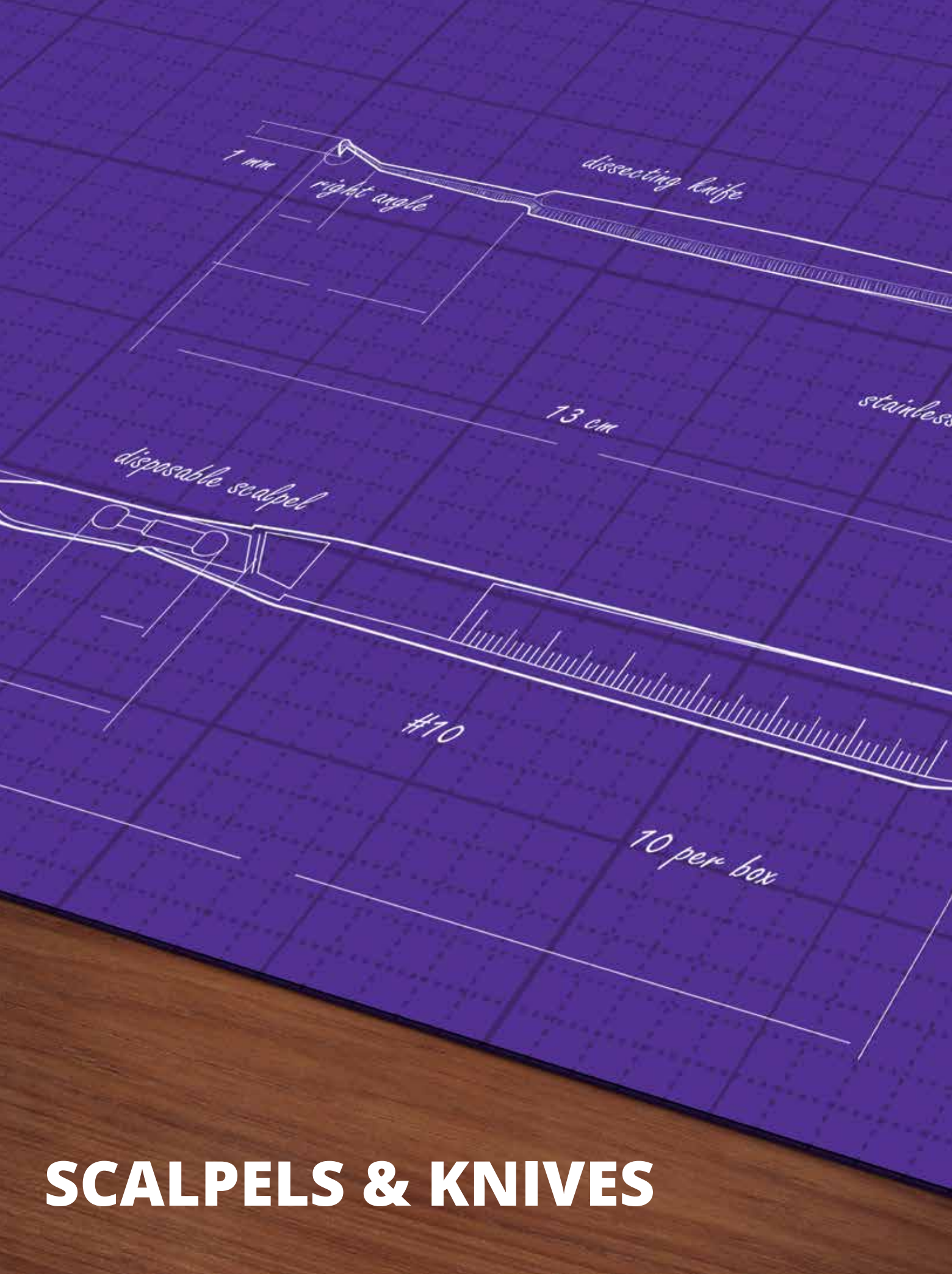
ROCHESTER-CARMALT HEMOSTATIC FORCEPS

- "Stars and stripes" hemostat
- Longitudinal serrations along the blade, with a cross-hatched tip
- Securely clamp tissue without cutting it
- Scissor like ratchet handles
- Stainless Steel

- 501287** 16 cm (6.25 in.), Straight
501287-G 16 cm (6.25 in.), Straight, **German**
501243 16 cm (6.25 in.), Curved
501243-G 16 cm (6.25 in.), Curved, **German**
501717 20 cm (7.75 in.), Straight
501717-G 20 cm (7.75 in.), Straight, **German**
501716 20 cm (7.75 in.), Curved
501716-G 20 cm (7.75 in.), Curved, **German**

Standard and German versions may differ slightly in appearance.





SCALPELS & KNIVES

SAPPHIRE KNIVES

Clear blade increases view of tissue—chemically inert to lymph, blood and disinfectant solutions

STRAIGHT STAINLESS STEEL HANDLE FOR SAPPHIRE BLADE

- Can be used in various medical procedures due to non-thrombogenic surface
- Blades sold separately
- 13 cm (5 in.) Long
- Stainless Steel

500317 Straight Stainless Handle for Sapphire Blade



500317

SAPPHIRE BLADE

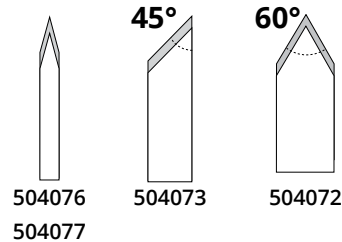
- For use with Handle **500317**
- 0.20 mm Thick

504072 Double Edge Lancet, 0.75 mm Wide, Angled 60°

504076 Double Edge Lancet, 0.50 mm Wide, Straight

504077 Double Edge Lancet, 1.00 mm Wide, Straight

504073 Single Edge Lancet, 1 mm Wide, Angled 45°



WHY CHOOSE A SAPPHIRE BLADE?

Our sapphire knives are constructed of single crystal, synthetic sapphires (Al_2O_3). While not as hard as a diamond, they are still hundreds of times harder than steel razor blades. The durability of the blade guarantees a long operational life that exceeds 100 incisions. In addition, the blade and handle can be sterilized using any currently known procedure.

The super sharp cutting edge, mirror surface finish and low friction coefficient combine to create an accurate, clean cut with minimal tissue trauma. Scarring is reduced, and incisions heal quickly. Both the stainless steel and titanium handles feature safety locks to protect the super sharp cutting edge from damage and prevent injuries to medical personnel.

Hand held sapphire knives are ideal for delicate dissection and microsurgery. Sapphire blades offer several advantages.

- They are extremely hard, and the edge is honed razor sharp. Because of this, they hold the edge better than standard surgical instruments. They are able to make over 100 incisions.
- The incisions made with a sapphire blade are much finer than can be made with standard instruments. This leaves less cell damage along the incision. You get an accurate, clean cut with minimal tissue trauma, which speeds healing and reduces scarring.
- Because these knives are non-metallic, there is no metal ion reactivity. They are chemically inert to lymph, blood and disinfectants.
- The blades of a sapphire knife are clear, allowing you to see the tissue under the knife's edge.

If handled properly, a sapphire knife should last for years. Be aware that sapphire hardness also makes the blade brittle. It should be handled with care. Rough handling and dropping can dull the delicate edge. Excessive force can break the tip.

TIP! Never test the sharpness of a sapphire knife on a finger!

The sapphire knife may be cleaned in an ultrasonic bath or wet sterilized as long as it doesn't touch other instruments or solid objects.



STRAIGHT TITANIUM HANDLE FOR SAPPHIRE BLADE

- Blades sold separately
- 13 cm (5 in.) Long

Titanium

501811 Straight Handle



501811

SAPPHIRE BLADE

- For use with Handle **501811**

504074 0.25 mm Thick, 1.50 mm Wide, Round/Sharp

504075 Elbow Double Lancet, 0.20 mm Thick, 2.80 mm Wide, Angled 60°

504168 0.20 mm Thick, 2.80 mm Wide, Angled 60°

60°



504168
504075



504074

MINIATURE BLADES

These small blades are sterile, perfect for small incisions.

501247 Blade Handle, Round, Knurled, Stainless Steel, 10 cm (3.9 in.)

501247-G Blade Handle, Round, Knurled, Stainless Steel, 10 cm (3.9 in.), **German**

501248 Hex Blade Handle, Stainless Steel, 10 cm (3.9 in.)

501249 Needle Blades, 4.5 cm, Stainless Steel, 6 per pack

501250 Miniature Edge Blades, 3.5 cm, Stainless Steel, 12 per pack

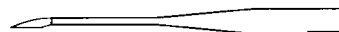
501251 Miniature Edge Blades, 3.5 cm, Round Tip, Stainless Steel, 12 per pack



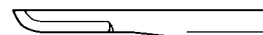
501247



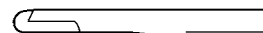
501248



501249



501250



501251

Standard and German versions may differ slightly in appearance.

SCALPEL HANDLES

A variety of scalpel handles and razor blade holders are available here.

SCALPEL HANDLE #3

- 13 cm (5 in.) Long
- Reusable, non-sterile
- For use with blades for tissue separation or surgical incision, #10, #11, #12, #15
- Stainless Steel



500236

500236 Scalpel Handle #3

500236-G Scalpel Handle #3, German

Standard and German versions may differ slightly in appearance.

SCALPEL HANDLE #4

- 14 cm (5.5 in.) Long
- Reusable, non-sterile
- For use with blades for tissue separation or surgical incision, #20, #21, #22, #23, #24
- Stainless Steel



500237

500237 Scalpel Handle #4

500237-G Scalpel Handle #4, German

Standard and German versions may differ slightly in appearance.

SCALPEL HANDLE #7

- 16 cm (6.25 in.) Long
- Stainless Steel



500238

500238 Scalpel Handle #7

500238-G Scalpel Handle #7, German

Standard and German versions may differ slightly in appearance.

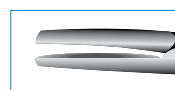
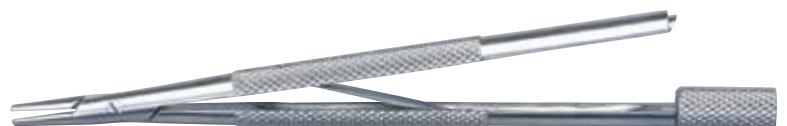
RAZOR BLADE HOLDER

- Special jaw shape prevents blades from slipping
- 12 cm (4.75 in.) Long
- Round Tips
- Convex/Concave Jaws

14134 Razor Blade Holder

14134-G Razor Blade Holder, German

Standard and German versions may differ slightly in appearance.



14134

STERILE STAINLESS STEEL SCALPEL BLADES USED FOR SKIN INCISIONS

Attaching a blade to the handle is easy.

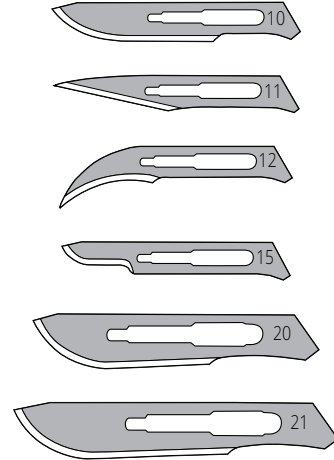
1. Grasp the blade with a needle holder just above the opening of the non-cutting side.
2. Align the groove on the handle with the opening of the blade.
3. Slide the blade into the handle until it clicks into place.

FEATHER® BLADES

Used for skin incision and tissue separation. All stainless steel scalpel blades are made by Feather, using a precise beveling technique to create the edge's micron sharpness. These are the finest blades available.

- Sterile
- 100 per box

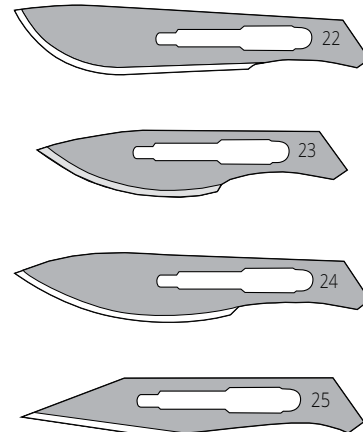
504169	#10 Feather Blades for Handles #3 or #7
504170	#11 Feather Blades for Handles #3 or #7
504171	#12 Feather Blades for Handles #3 or #7
504172	#15 Feather Blade for Handles #3 or #7
504173	#20 Feather Blades for Handle #4
504174	#21 Feather Blades for Handle #4
504175	#22 Feather Blades for Handle #4
504176	#23 Feather Blades for Handle #4
504177	#24 Feather Blades for Handle #4



STANDARD BLADES

- Surgical quality
- Exceptionally strong and uniformly sharp
- A good alternative to Feather
- 100 per Box

500239	#10 Standard Blades for Handles #3 or #7
500240	#11 Standard Blades for Handles #3 or #7
500242	#15 Standard Blades for Handles #3 or #7
500243	#20 Standard Blades for Handle #4
500244	#21 Standard Blades for Handle #4
500245	#22 Standard Blades for Handle #4
500246	#23 Standard Blades for Handle #4
500247	#24 Standard Blades for Handle #4
500248	#25 Standard Blades for Handle #4



BLADE SAFE SURGICAL BLADE REMOVER

- Remove blades easily and safely from any style surgical blade handle.

501335 Blade Safe Surgical Blade Remover



501335

MICRO DISSECTING KNIFE

- 13 cm (5.1 in.) Long
- 1 mm Blade, 90° Angle

14135 Micro Dissecting Knife



14135

WORLD PRECISION INSTRUMENTS

UK: +44 (0)1462 424700 • wpiuk@wpi-europe.com • www.wpi-europe.com
 Germany: +49 (0)6031 1602171 • wpide@wpi-europe.com • www.wpi-europe.com
 Brazil: (013) 406-29703 • info@brazil.wpiinc.com • www.wpiinc.com
 China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

DISPOSABLE KNIVES

Disposable knives, scalpels and lancets are an affordable solution for sterile surgical instruments.

MICROSURGICAL KNIVES

- 13.5 cm (5.25 in.) Long
- Disposable
- Sterile
- 6 per pack

- 501731** Microsurgical Knife, 15° 3 mm Blade,
- 500249** Microsurgical Knife, 15° 5 mm Blade
- 500250** Roundstock Ophthalmic Knife, 15° 5.7 mm Blade



501731



500249



500250

DISPOSABLE SCALPELS

- Carbon steel blades
- Non-slip handles
- Used for incisions and underlying tissue
- Packed 10 per box
- Sterile
- Individually wrapped

- 500348** #10
- 500349** #11
- 500350** , #12
- 500351** #15
- 500352** #20
- 500353** #21
- 500354** #22
- 500355** #23



500348



500351



500355

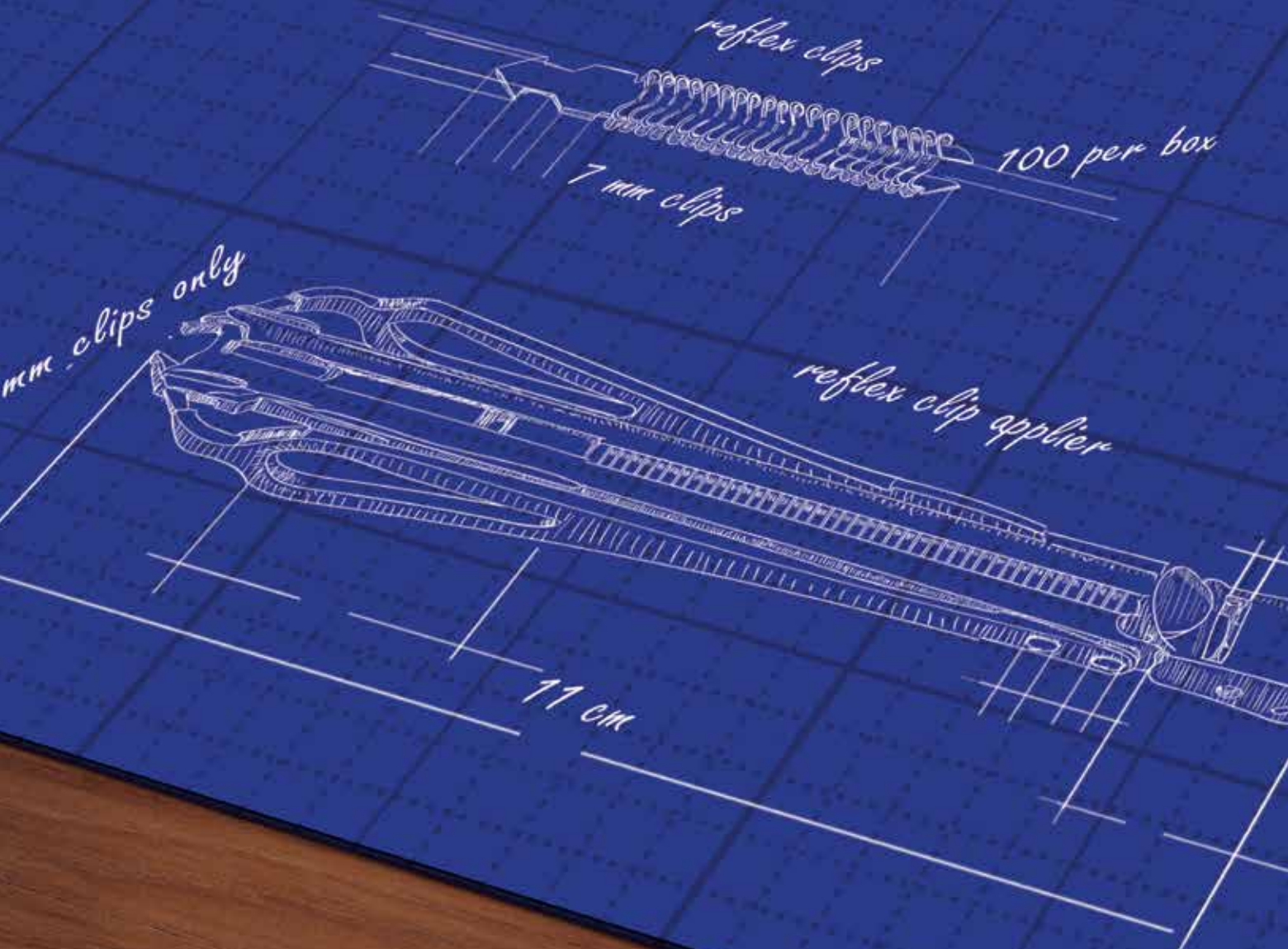
DISPOSABLE SAFETY SCALPELS

- Retractable Blade
- Ambidextrous
- 10 per box

- 501337** #10
- 501338** #11
- 501339** #15



501338



WOUND CLOSURE

SELECTING WOUND CLOSURE INSTRUMENTS

Suture instruments are used to ligate, repair and approximate tissue after a surgical procedure.

Needle holders, also known as needle forceps or needle drivers, are used in suturing during a surgical procedure. Needle holders typically have a textured tip for a secure hold. Often they have a ratchet (or other mechanism for locking). Some have tungsten carbide inserts in the tips. Tungsten carbide inserts are more durable than stainless steel, last longer and typically offer a better grip. Tungsten carbide (TC) is harder than stainless steel. Look for the gold handles which designate tungsten carbide inserts.

Titanium needle holders are lighter weight, which makes them easier to use during long procedures.

Choose your needle holders based on the size of the needle you are using, so that they securely hold your needle. The smaller the needle, the smaller the needle holder.

Staples are designed to be non-crushing when they are inserted into tissue.

This section includes some of our most popular instruments used to aid in wound closure.

Tissue Adhesives which you select will depend largely on your biomedical research laboratory application. If you are building electrodes, you might use a silver-filled, conductive epoxy to connect a Ag/AgCl pellet. For instantaneous bonding when mounting a rodent brain slice, you might select an ethyl cyanoacrylate. When you are looking for a low toxicity adhesive with some elasticity and good moisture resistance, a silicone adhesive is the option of choice.

SPRING-HANDLE NEEDLE HOLDERS

These squeeze-handle needle holders may be used ambidextrously.

MICRO CASTROVIEJO NEEDLE HOLDER

- 9 cm Long
- Round 0.5 cm tips
- Diamond dusted tips
- Stainless Steel

503376 Straight

503377 Curved



503376



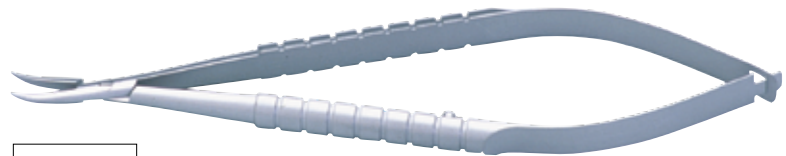
503377

503376

NEEDLE HOLDER

- 12.5 cm (5 in.) Long
- Curved
- Round handles
- 0.4 mm Tips
- Smooth Jaws
- Stainless Steel

14132 Needle Holder



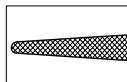
14132

STEVENS NEEDLE HOLDER

- 13 cm (5 in.) Long
- Straight
- 1 mm Tips
- Serrated
- Stainless Steel

14133 Stevens Needle Holder

14133-G Stevens Needle Holder, German



14133

Standard and German versions may differ slightly in appearance.

NEEDLE HOLDER

- 0.4 mm Tips
- Smooth jaws with lock
- Stainless Steel

503355 14 cm (5.5 in.), Straight

503354 20 cm (7.75 in.), Curved



503354



503355

503355

NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Round handles
- 0.4 mm Tips
- Smooth jaws
- Stainless Steel

14081 Curved

14081-G Curved, **German**

503357 Straight



14081



503357



14081

Standard and German versions may differ slightly in appearance.

CASTROVIEJO NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- 1.2 mm Tips
- Lock
- Stainless Steel

14137 Serrated, Straight

14137-G Serrated, Straight, **German**

555419NT Serrated, Straight, **Titanium**

500223 Straight, **Tungsten Carbide** Jaws

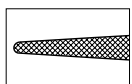
500223-G **Tungsten Carbide** Jaws, **German**

503257 Smooth, Straight

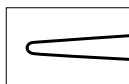
503258 Smooth, Curved



14137



Serrated



Straight



Curved

Standard and German versions may differ slightly in appearance.

NEEDLE HOLDER WITH SCISSORS

- 14 cm (5.5 in.) Long
- Straight
- Round handles
- 0.3 mm Tips
- Smooth
- Stainless Steel

14115 Needle Holder with Scissors

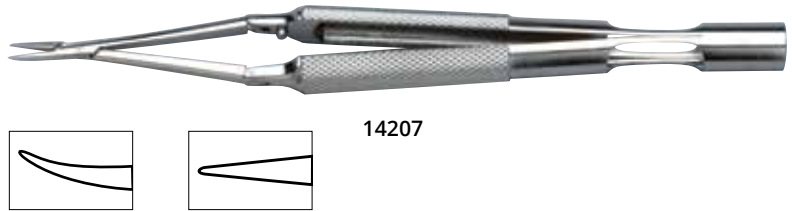


14115

ROUND HANDLED NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Round, hollow handles
- Smooth jaws
- Stainless Steel

14207 Straight
14206 Curved

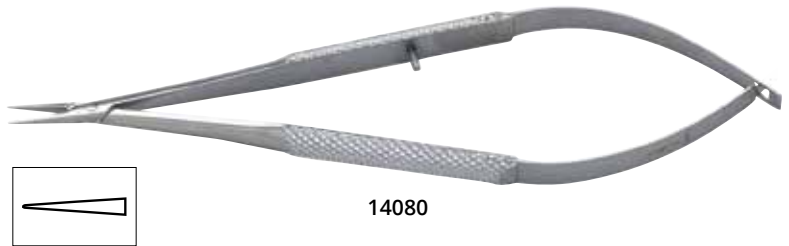


14207

ROUND HANDLED NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Round handles
- 0.3 mm Tip
- Smooth
- Stainless Steel

14080 Straight
14080-G Straight, **German**
14361 Straight, **Titanium**
WP1530 Curved, **Titanium**



14080

Standard and German versions may differ slightly in appearance.

MATHIEU FINE NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Serrated
- **Tungsten Carbide** jaws
- Stainless Steel

500225 Mathieu Fine Needle Holder
500225-G Mathieu Fine Needle Holder, **German**

Standard and German versions may differ slightly in appearance.

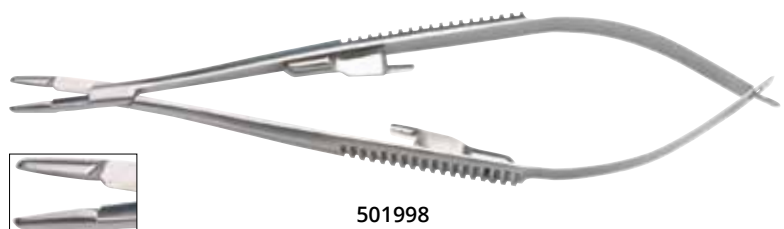


500225

CASTRO OLSEN-HEGAR NEEDLE HOLDER

- 15 cm (6 in.) Long
- Lock
- Suture Scissors
- Serrated
- Stainless Steel

501998 Castro Olsen-Hegar Needle Holder



501998

TITANIUM NEEDLE HOLDERS

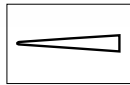
These needle drivers are constructed of titanium, which offers several advantages for small animal surgical procedures:

- 100% anti-magnetic so it can be used for MRI applications
- Completely resistant to corrosion from nitric acid, chloride, salt water and industrial and organic chemicals
- Lightweight and strong with the tensile strength of carbon steel
- Titanium is more flexible and 40% lighter than Inox stainless steel
- When heated or cooled, the dimensions of titanium alloy change less than half of what stainless steel alloys will, making titanium surgical instruments much more durable even with autoclaving
- Titanium is stain-free and temperature resistant up to 430°C.

NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Straight
- Smooth jaws
- **Titanium**

14361 Needle Holder, Straight



14361

BARRAQUER NEEDLE HOLDER

- 11.5 cm (4.5 in.) Long
- Curved
- 9 mm Delicate jaws
- Sharp
- **Titanium**

WP1690 No Lock

WP1680 Lock



WP1680

TROUTMAN NEEDLE HOLDER

- 11.5 cm (4.5 in.) Long
- Curved
- 10 mm Jaws
- Blunt
- **Titanium**

WP3620 Troutman Needle Holder

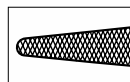
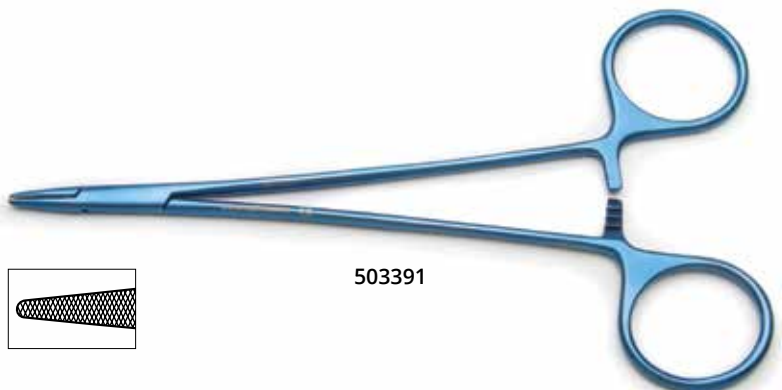


WP3620

NEEDLE HOLDER, SERRATED JAWS

- 16 cm (6.3 in.) Long
- Straight
- Serrated Jaws
- **Titanium**

503391 Needle Holder



503391

WORLD PRECISION INSTRUMENTS

UK: +44 (0)1462 424700 • wpiuk@wpi-europe.com • www.wpi-europe.com Germany: +49 (0)6031 1602171 • wpide@wpi-europe.com • www.wpi-europe.com
 Brazil: (013) 406-29703 • info@brazil.wpiinc.com • www.wpiinc.com China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

RING-HANDLE NEEDLE HOLDERS

Our ring handled needle holders all have a ratchet locking mechanism to securely hold your needles.

DERF NEEDLE HOLDER

- 12 cm (5 in.) Long
- Straight
- Serrated jaws
- Stainless Steel

501246 Derf Needle Holder

501246-G Derf Needle Holder, **German**

Standard and German versions may differ slightly in appearance.



501246

MICRO OLSEN-HEGAR NEEDLE HOLDER

- 12 cm (4.75 in.) Long
- Straight
- Serrated jaws with suture scissors
- 10 mm Jaws
- 2 mm Tips
- Stainless Steel

501989 Micro Olsen-Hegar Needle Holder



501989

BRUCE CLARKE NEEDLE HOLDER

- 12.5 cm (5 in.) Long
- Straight
- Serrated jaws,
- Stainless Steel

503219 Bruce Clarke Needle Holder



503219

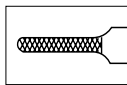
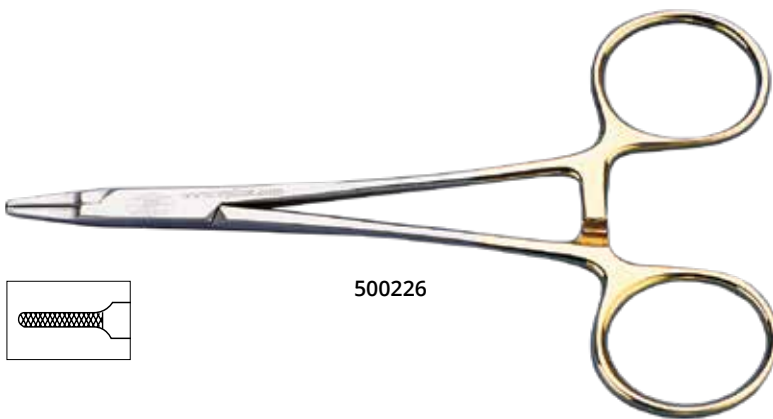
RYDER NEEDLE HOLDER

- 13 cm (5 in.) Long
- Straight
- Serrated
- **Tungsten Carbide** Jaws
- Stainless Steel

500226 Ryder Needle Holder

500226-G Ryder Needle Holder, **German**

Standard and German versions may differ slightly in appearance.



500226

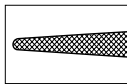
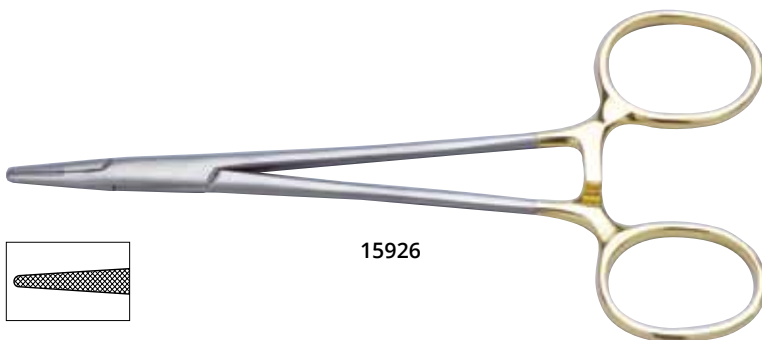
HALSEY NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Straight
- Serrated
- **Tungsten Carbide** jaws
- Stainless Steel

15926 Halsey Needle Holder

15926-G Halsey Needle Holder, **German**

Standard and German versions may differ slightly in appearance.



15926

WEBSTER NEEDLE HOLDER

- 12.5 cm (5 in.) Long
- Straight
- 1.2 mm Tips with lock
- Stainless Steel

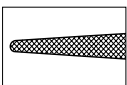
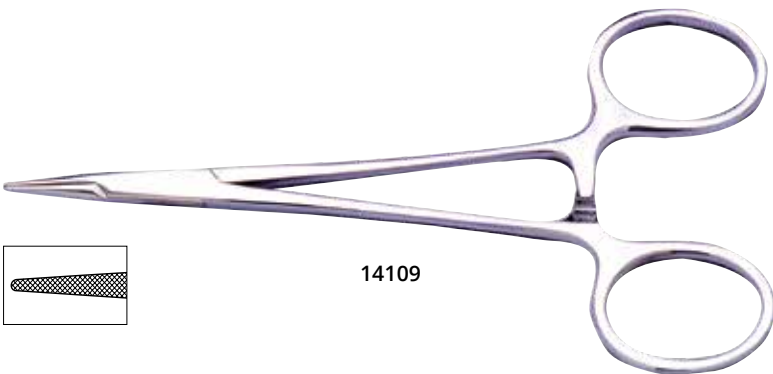
501843 Smooth Jaw,

14109 Serrated/Extra Delicate

14109-G Serrated/Extra Delicate, **German**

501929 Straight

Standard and German versions may differ slightly in appearance.



14109

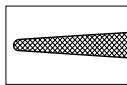
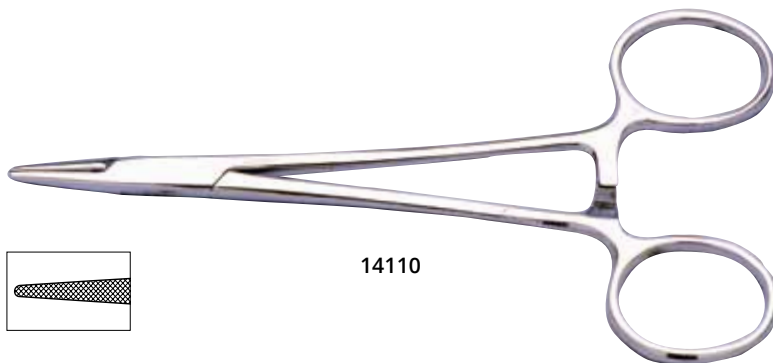
HALSEY NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Straight
- Serrated jaws
- Stainless Steel

14110 Halsey Needle Holder

14110-G Halsey Needle Holder, **German**

Standard and German versions may differ slightly in appearance.



14110

OLSEN-HEGAR NEEDLE HOLDER WITH SUTURE SCISSORS

- Straight
- Serrated
- **Tungsten Carbide** jaws
- Stainless Steel

501312 12 cm (4.75 in.)

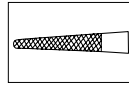
500227 14 cm (5.5 in.)

500227-G 14 cm (5.5 in.), **German**

501725 16.5 cm (6.5 in.)

501725-G 16.5 cm (6.5 in.), **German**

Standard and German versions may differ slightly in appearance.



500227-G



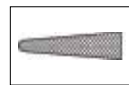
OLSEN-HEGAR NEEDLE HOLDER

- 14 cm (5.5 in.) Long
- Straight
- Serrated jaws with suture scissors
- Stainless Steel

500023 Olsen-Hegar Needle Holder

500023-G Olsen-Hegar Needle Holder, **German**

Standard and German versions may differ slightly in appearance.



500023



CRILE-WOOD NEEDLE HOLDER

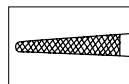
- Straight
- Serrated
- **Tungsten Carbide** jaws
- Stainless Steel

500224 14.5 cm (5.75 in.)

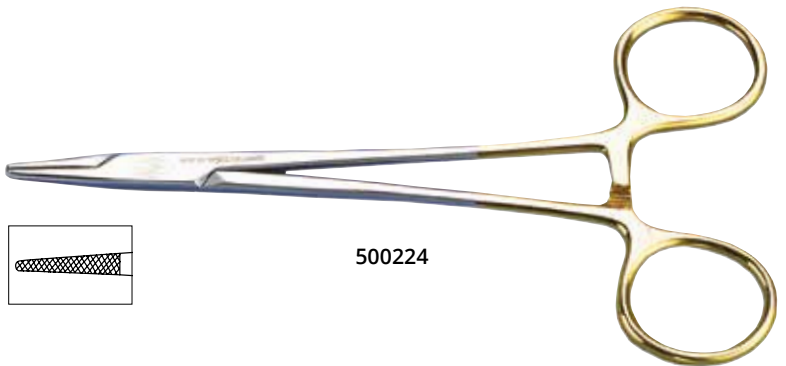
500224-G 14.5 cm (5.75 in.), **German**

503741 15 cm (5.9 in.), Left-Handed

Standard and German versions may differ slightly in appearance.



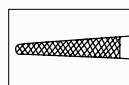
500224



MAYO-HEGAR NEEDLE HOLDER

- 15 cm (6 in.) Long
- Straight
- Stainless Steel

V503382 Mayo-Hegar Needle Holder



V503382



SKIN STAPLERS

Surgical staples are commonly used in place of sutures for closing wounds after surgery. Staples are typically faster to apply than suturing by hand. Staple lines are accurate and consistent, preventing wound leakage.

SKIN STAPLER

The **WPSS01** skin stapler is an affordable, reliable solution for ideal veterinary wound closures.

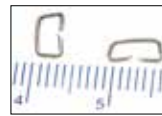
- Made in the U.S.A.
- Designed specifically for veterinarians
- Clear handle makes it easy to spot contaminants
- Uses reloadable cartridges containing 35 stainless steel staples
- Autoclavable handle
- Improves patient safety by considerably reducing surgery and anesthesia time
- Angled tip design helps you maintain a clear view of the incision line at all times
- Lightweight but durable with a comfortable ergonomic grip design
- Simple to use — simple to reload
- Designed to reduce problems with rotated staples

WPSS01 Skin Stapler (one staple cartridge included)

WPSS02 Staple Cartridge (35 staples)



WPSS01



Stainless steel skin staples are 3.6 mm high by 6.9 mm wide after closure.

SURGICLOSE SKIN STAPLER

The SurgiClose™ REP is a reusable device which allows for reloading of sterile multi-feed staples and can be re-sterilized (by autoclave, gas and chemical means) for approximately 100 procedures.

- Extensively engineered materials including surgical stainless steel and thermoplastic resins
- Extremely shallow tissue channel and eversion assisting design
- Sterile staple cartridges sold separately
- Ergonomic design for 5th through 95th percentile of female/male veterinarians

504564 SurgiClose REP Skin Stapler, High Temp Autoclavable

504565 SurgiClose® REP Disposable Cartridges



504564

LEVER ACTION SKIN STAPLER 35S WITH 35 PRELOADED STAPLES

This affordable skin stapler's simple design and quality construction provides consistent and reliable performance. It fits comfortably in your hand to enhance control of skin closure and also reduces surgery time.

- 35 staples pre-loaded
- Individually sterile
- Lever action staplers are the most popular design on the market
- Distinctive staple shuttling feature greatly reduces track friction, a primary cause of jamming
- Short trigger stroke for ease of use and non-stop feed
- Handle design comfortably fits a wide range of hand sizes
- Staple lines are more likely to prevent leakage of blood or air
- Angled head allows visibility of incision to ensure precise staple placement during an operation
- Arrow indicator assists in accurate staple alignment
- Staple count indicator allows you to view staples remaining to help minimize waste
- Quality construction and simple design assure reliable, consistent performance

504562 Lever Action Skin Stapler 35S with 35 Preloaded Staples, Sterile,
Staple size: 5.7 mm x 3.8 mm or 6.5 mm x 4.7 mm



504562

WORLD PRECISION INSTRUMENTS

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CLIPS AND CLAMPS

Save time in surgery using our **reflex clips**. They are a fast, effective suture alternative for wound closure. Choose the 9 mm clips for use in rats or 7 mm clips for mice and young rats. The spring-loaded clip applicator is easy to use. You get minimal tissue trauma and maximum holding power. Use the clip remover to extract the clips when the wound heals. The clips, applicator and remover are all autoclavable.

Vessel clips are used to clamp arteries or veins during surgical procedures. These vascular clamps come in a variety of shapes and sizes.

REFLEX CLIP APPLIER

- 11 cm (4.3 in.) Long

500343 For 7 mm Clips

500345 For 9 mm Clips



500343

REFLEX CLIP

- 100 per box
- Non-sterile
- Stainless Steel

500344 7 mm

500346 9 mm



500344

REFLEX CLIP REMOVING FORCEPS

- 12 cm (4.75 in.) Long
- For 7 mm and 9 mm clips
- Stainless Steel

500347 Reflex Clip Removing Forceps

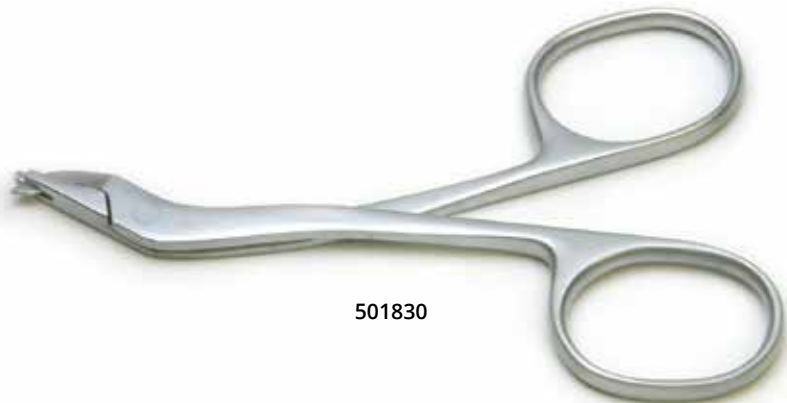


500347

STAPLE REMOVER

- 12 cm (4.5 in.) Long
- For use with Disposable Skin Stapler
- Stainless Steel

501830 Staple Remover



501830

APPLYING FORCEPS

- 18 cm (7 in.) Long
- For silver clips #500087
- Stainless Steel

500088 Applying Forceps



500088

SILVER CLIPS

- Micro Vascular
- 5.1 mm Long
- 0.5 x 0.8 mm
- 100 per pack
- Stainless Steel

500087 Silver Clips



500087

APPROXIMATOR

- 20 g pressure
- For 0.5 to 1.0 mm Vessel
- Stainless Steel

14084 Approximator



14084

SCHWARTZ VESSEL CLIP

- Strong Angle
- 1.7 x 8 mm Jaws,
- German

501788-G Schwartz Vessel Clip



501788-G

VESSEL CLIPS

- 5 per pack
- Stainless Steel

15911 0.8 x 5 mm Jaws, 10 g Pressure

15913 1 x 6 mm Jaws, 15 g Pressure

14120 1.5 x 5 mm Jaws, 30 g Pressure

14121 1.5 x 8 mm Jaws, 60 g Pressure



15911



14120



15913



14121

FROG HEART CLIPS

- 5 per pack
- Stainless Steel

501902 Two Flat Loops, 2.5 mm Diameter, 24 mm,

501903 Two Flat Loops, 0.6 mm Diameter, 17 mm

501904 Two Flat Tips, 1 x 3 mm Tips, 18 mm



501902



501903



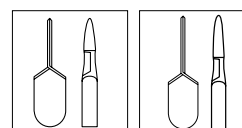
501904

MICRO VESSEL CLIPS

- Straight
- German

501779-G 0.75 x 4 mm Jaws

501780-G 0.8 x 6 mm Jaws



BULLDOG CLAMPS

- 14119** Micro Bulldog Clamp, 3 cm (1.2 in.), 8x1.2 mm Serrated Jaws, Curved, Stainless Steel
- 14119-G** 3.7 cm (1.5 in.), 11x2.6 mm Serrated Jaws, Curved, **German**
- 14118** Small Bulldog Clamp, 6 cm (2.3 in.), Serrated Jaws, Straight, Stainless Steel

Standard and German versions may differ slightly in appearance.



14119



14118

DIEFFENBACH BULLDOG CLAMPS

- 6.5 cm (2.5 in.) Long
- Serrated jaws
- Stainless Steel

- 14117** Curved
- 14117-G** Curved, **German**
- 14116** Straight
- 14116-G** Straight, **German**

Standard and German versions may differ slightly in appearance.



14117



14116

APPLYING FORCEPS

- 10 cm (4 in.) Long
- For Approximator #14084 and Vessel Clips #14120, #15911, and #14121
- Stainless Steel

- 14189** Applying Forceps



14189

JONES TOWEL CLAMP

- 9 cm (3.5 in.) Long
- Curved
- Stainless Steel

- V503380** Jones Towel Clamp



V503380

BACKHAUS TOWEL CLAMP

- Curved
- Locking Handle
- Stainless Steel

- 501320** 9 cm (3.5 in.)
- 501320-G** 9 cm (3.5 in.), **German**
- 501700** 13 cm (5.25 in.)
- 501700-G** 13 cm (5.25 in.), **German**

Standard and German versions may differ slightly in appearance.



501320

“SUPER” ADHESIVES FOR LIFE SCIENCE RESEARCH

Four times stronger than butyl cyanoacrylate and less toxic

Cyanoacrylate adhesives have been on the market since 1958. Most industrial or household grade cyanoacrylate is made of shorter alkyl chain derivatives such as methyl or ethyl cyanoacrylate (7341 and 7342). They are very useful for temporarily holding tissues such as mounting specimens for microtome sectioning. However, they are not suitable for bonding wounds on live animals. The difficulties of using cyanoacrylate for bonding live animals are:

- A strong, irritating odor.
- Quick loss of bonding strength due to breakdown of the bonding by hydration.
- The breakdown products, cyanoacetate and formaldehyde, are toxic and can cause inflammatory reactions.
- They have low flexibility and tend to be brittle.

To overcome these problems, several longer alkyl chain cyanoacrylates have been developed especially for veterinary and human use. The first longer alkyl chain product is butyl cyanoacrylate. This product has been used for animal and human applications outside the USA since 1970. It is much less toxic and has a lower odor than the methyl or ethyl cyanoacrylate. The butyl cyanoacrylate offered by WPI is Vetbond™.

A family of adhesives containing octyl cyanoacrylate, a plasticizer and stabilizer, was developed in the 1990's (one of them approved by FDA for human use). When bonding to tissue, these new adhesives are four times stronger and less toxic than butyl cyanoacrylate. Compared with the traditional suture, the new super adhesive has several advantages. On average, it takes only one-tenth of the time to close an incision. The bonding strength is equal to 5-0 monofilament suture. It also has a mysterious antimicrobial effect that can decrease infection rates in contaminated wounds. Bonding will slough off naturally in 5 to 7 days. Cosmetic appearance of the healed incision is also better.

Gluture Topical Tissue Adhesive 503763 forms a strong and flexible film and is thus more suitable for surface wound bonding, protection, and holding a sensor or other device on the tissue. Setting time is about 10 seconds, which gives ample time for application. It can also be used for temporarily holding a live tissue. For example, there is a report of using it to hold nematodes on a glass slide for patch-clamp neurons recording.

All of the products offered by WPI are veterinary grade (not suitable for human application). Though very similar to the grade for human use, they are **not sterile** and **do not have FDA approval**.

CYANOACRYLATE ADHESIVE

- 10 vials per pack, each approximately 1.5 mL
- Faster healing process
- Strong bonding
- Anti-microbial

7341 Cyanoacrylate Adhesive, low viscosity—90-120 cps

7342 Cyanoacrylate Adhesive, high viscosity—1100-1600



VETBOND TISSUE ADHESIVE

- Bonds tissue
- Use in place of sutures for small animal surgery
- Antimicrobial effect
- Use in forensic science
- Butyl Cyanoacrylate
- Low toxicity
- Cures in < 10 seconds

VETBOND 3M Vetbond™ Adhesive (3 mL)



WORLD PRECISION INSTRUMENTS

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China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

LIQUIVET RAPID TISSUE ADHESIVE

Fast-acting cyanoacrylate-based tissue adhesive for wound care. Polymerizes in 2 seconds. Ideal for skin closure. Excellent for quick repair of minor lacerations, abrasions, and other minor wounds. For veterinary use only. LiquiVet monomeric formulation forms a thin, waterproof adhesion to bond tissue in a variety of vet procedures. Comes in 3 g dispensing bottle with five applicators.

504561 LiquiVet Rapid Tissue Adhesive



504561

GLUTURE TOPICAL TISSUE ADHESIVE

Gluture Topical Tissue Adhesive 503763 forms a strong and flexible film and is thus more suitable for surface wound bonding, protection, and holding a sensor or other device on the tissue. Setting time is about 10 seconds, which gives ample time for application. It can also be used for temporarily holding a live tissue. For example, there is a report of using it to hold nematodes on a glass slide for patch-clamp neurons recording.

- Strong and flexible
- 10 second setting time

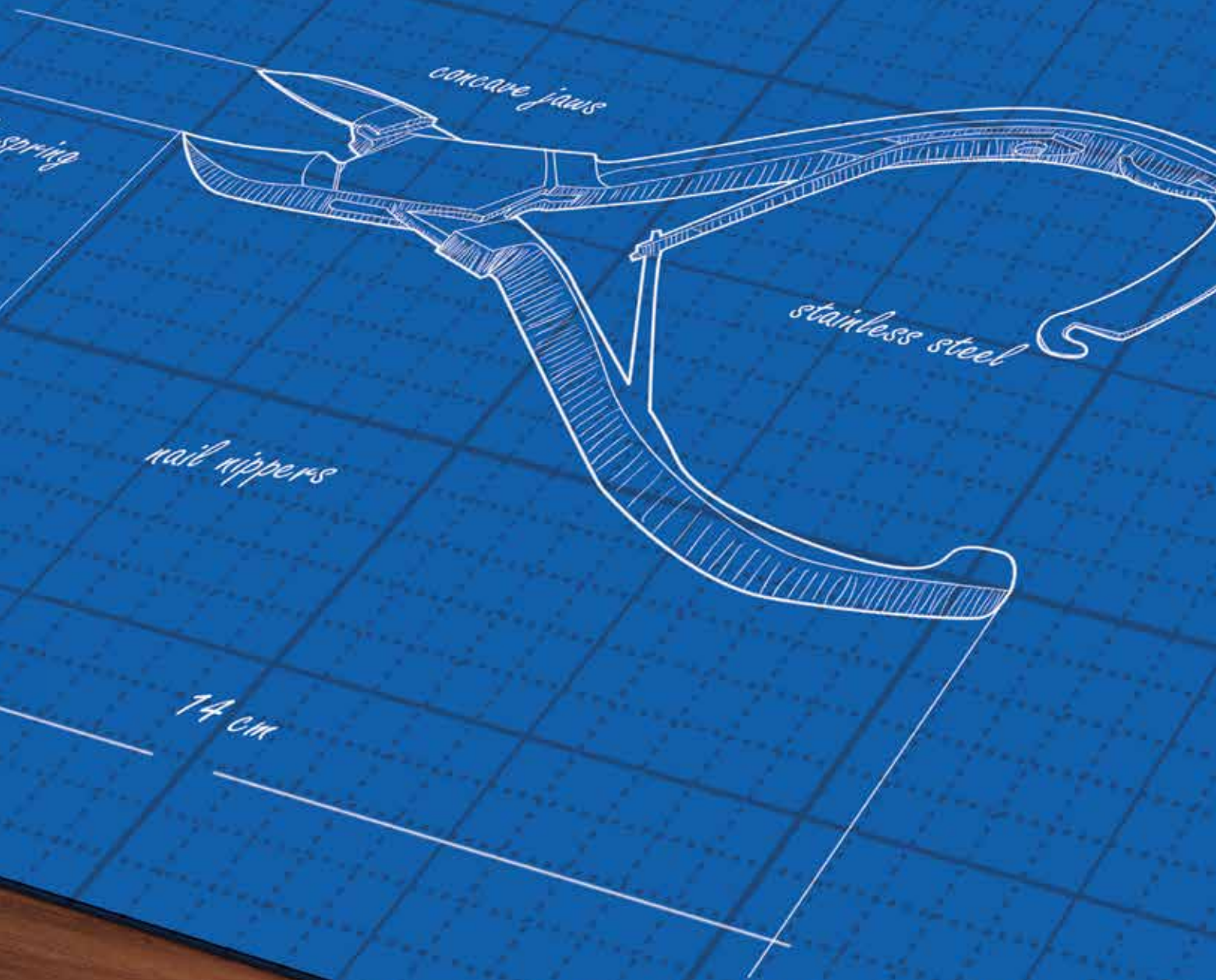
503763 Gluture, 1.5 mL (10 tips)



Ideal for neuroscience applications, peripheral nerve studies and biomedical applications

Premixing tips simplify use

Volume Discounts! Save 15%



BONE INSTRUMENTS

BONE CUTTERS & RONGEURS

Rongeurs are like pliers with a heavy, pointed jaw. They are used for gnawing holes in bones during surgery. This could be used in neurosurgery where the surgeon must remove part of the skull to expose the brain. It could be used in an orthopedic surgery or even a cadaver dissection. With the rongeurs, we have bone cutters too. These are also heavy duty instruments designed for manipulating bones during small animal surgery.

- Manufactured for durability and precise use
- Short tips
- May be used to cut nails, cartilage and skin

BONE CUTTER SCISSORS

- 10.5 cm Long
- Strong Tips
- Stainless Steel

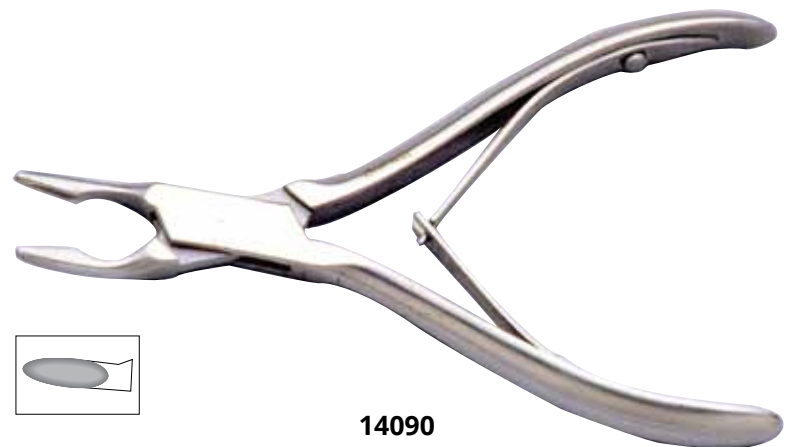
- 503253** Serrated, Straight
- 503255** Serrated, Curved
- 503252** Smooth, Straight
- 503254** Smooth, Curved



MINI BLUMENTHAL RONGEUR

- 11 cm (4.3 in.)
- Durable, strong handles
- Double spring handles
- Cup shaped tips
- 2 mm Jaw
- Stainless Steel

- 14090** Mini Blumenthal Rongeur
- 14090-G** Mini Blumenthal Rongeur, **German**



FRIEDMAN RONGEUR

- Double spring handles
- 2.5 mm Jaw
- Stainless Steel

14089 13 cm (5 in.)

14089-G 13 cm (5 in.), **German**

503295 15 cm (6 in.)

Standard and German versions may differ slightly in appearance.



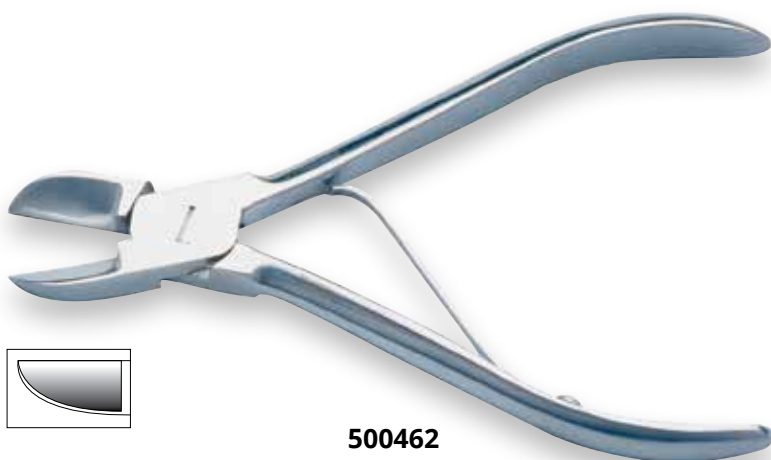
14089

LISTON BONE CUTTING FORCEPS

- Spring handles
- Stainless Steel

500462 14 cm (5.5 in.), Straight

500358 19 cm (7.5 in.), Straight

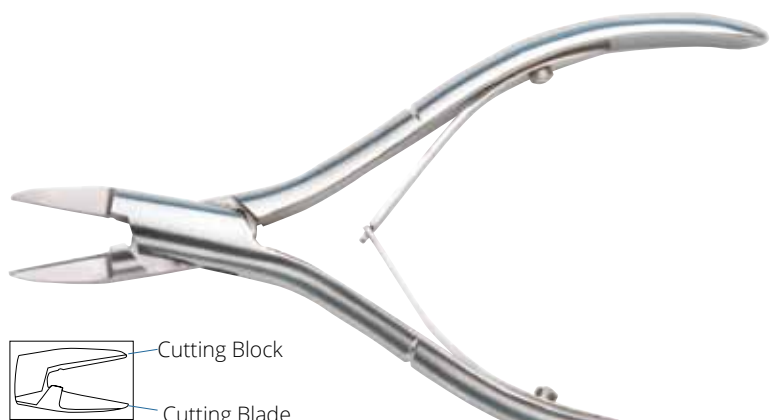


500462

SINGLE BLADE BONE CUTTER

- 14 cm (5.5 in.) Long
- Double spring handles
- 23 mm (0.9 in.) Jaw
- 1 mm Blade tip
- 2 mm Block tip
- Stainless Steel

501990 Single Blade Bone Cutter



501990

NAIL NIPPERS

- 14 cm (5.5 in.)
- Concave jaws
- Double spring handles
- Stainless Steel

500362 Nail Nippers

500362-G Nail Nippers, **German**

Standard and German versions may differ slightly in appearance.



500362

MICRO FRIEDMAN RONGEUR

- 15 cm (5.9 in.) Long
- Double spring handles
- Stainless Steel

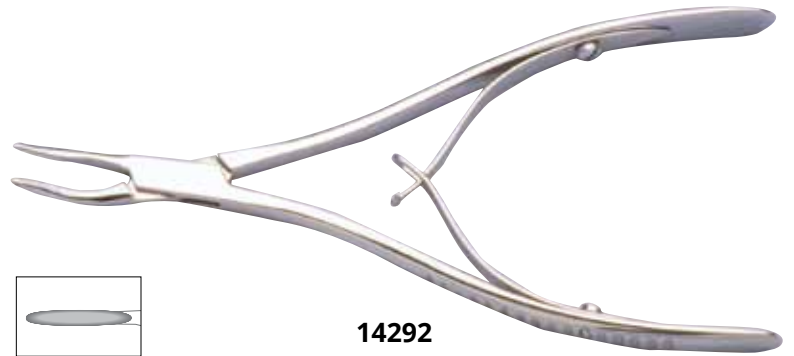
501332 0.8 mm Tip

501333 1.0 mm Tip

14292 1.3 mm Tip

14292-G 1.3 mm Tip, **German**

Standard and German versions may differ slightly in appearance.



14292

BLUMENTHAL RONGEUR

- 15 cm (6 in.)
- 3 mm Jaw
- Double spring handles
- Stainless Steel

14091 Blumenthal Rongeur

14091-G Blumenthal Rongeur, **German**

Standard and German versions may differ slightly in appearance.



14091

BONE CUTTER

- 11 cm (4.3 in.) Long
- Oval Cutting Surface
- 1 cm Cup
- Sharp tips
- Stainless Steel

501269 Bone Cutter



501269

NAIL NIPPER

- 11 cm (4.3 in.) Long
- Sharp tips
- Stainless Steel

500137 Nail Nipper

500137-G Nail Nipper, German

Standard and German versions may differ slightly in appearance.



500137-G

CORNEOSCLERAL PUNCH

- This corneoscleral punch is an excellent tool for opening the skull of a small animal without damaging the brain or spinal cord.
- The lower jaw of the punch is a flat plate which can be inserted into the skull with much less damage to the brain than a rongeur.
- 8 cm (3 in.)

500079 2 mm Wide

500143 1.5 mm Wide



500079

WIRE CUTTERS, TUNGSTEN CARBIDE

- 15 cm (6 in.) Long
- Tungsten carbide tip
- No spring
- Round head
- Stainless Steel

503674 Wire Cutters



503674

WORLD PRECISION INSTRUMENTS

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BONE CURETTES

Surgical spoons or scoops are used for scraping or debriding tissue. A surgical spoon, curette or excavator can be used to remove pathologic tissue. A dental curette is used to scrape a carious cavity prior to a filling.

VOLKMAN CURETTE #3

- 17 cm (6.7 in.) Long
- Oval Cutting Surface
- 1 cm Cup
- Stainless Steel

503689 Volkman Curette #3



503689

VOLKMAN CURETTE #00

- 17 cm (6.7 in.) Long
- Oval Cutting Surface
- 5 mm Cup
- Stainless Steel

503753 Volkman Curette #00



503753

SCHROEDER CURETTE

- 22 cm (8.7 in.) Long
- Oval Cutting Surface
- 3x5 mm Cup
- Stainless Steel

503429 Schroeder Curette



503429

MISCELLANEOUS CURETTES & MORE

This collection contains a variety of curettes, spatulas, probes and dissectors for research applications and dissection..

MEYERHOEFER CURETTE

- 1.5 mm Diameter
- Stainless Steel

501773 14 cm (5.5 in.)

501773-G 14 cm (5.5 in.), German

Standard and German versions may differ slightly in appearance.



501773

MEYHOEFER CURETTE

- 13 cm (5.1 in.)
- Stainless Steel

504772 Size 0, 1.50 mm Diameter

504769 Size 2, 2.25 mm Diameter

504770 Size 3, 2.50 mm Diameter

504771 Size 4, 3.50 mm Diameter



504771

PERFORATED SPOON

- 15 cm (5.9 in.) Long
- Bowl diameter 20 mm (0.8 in.)
- Stainless Steel

501997 Perforated Spoon



501997

WELLS ENUCLINATION SPOON

- 14 cm (5.5 in.) Long
- Stainless Steel

503762 Wells Enucliation Spoon



503762

BUNGE EVISCERATION SPOON

- 13.5 cm (5.3 in.) Long
- Stainless Steel

503761 Bunge Evisceration Spoon



503761

CULLER LENS SPOON

- 13 cm (5.1 in.) Long
- Stainless Steel

503760 Culler Lens Spoon



503760

PATON SPATULA AND SPOON

- 14 cm (5.5 in.) Long
- Stainless Steel
- **504022** Paton Spatula and Spoon



504022

GROOVE DIRECTOR

- 15 cm (6 in.) Long
- Stainless Steel
- **V503381** Groove Director



V503381

DOUBLE END PROBE AND SEEKER

- 15 cm (6 in.) Long, Sharp Ends
- Stainless Steel
- **504033** Double End Probe and Seeker



504033

KIMURA SPATULA

- 16 cm (6.3 in.) Long
- 2.5 mm Wide, 0.3 mm Thick
- Stainless Steel
- **504773** Kimura Spatula



504773

PATON SPATULA AND SPOON

- 14 cm (5.5 in.) Long
- Stainless Steel
- **504022** Stainless Steel, 14 cm (5.5 in.) Long



504022

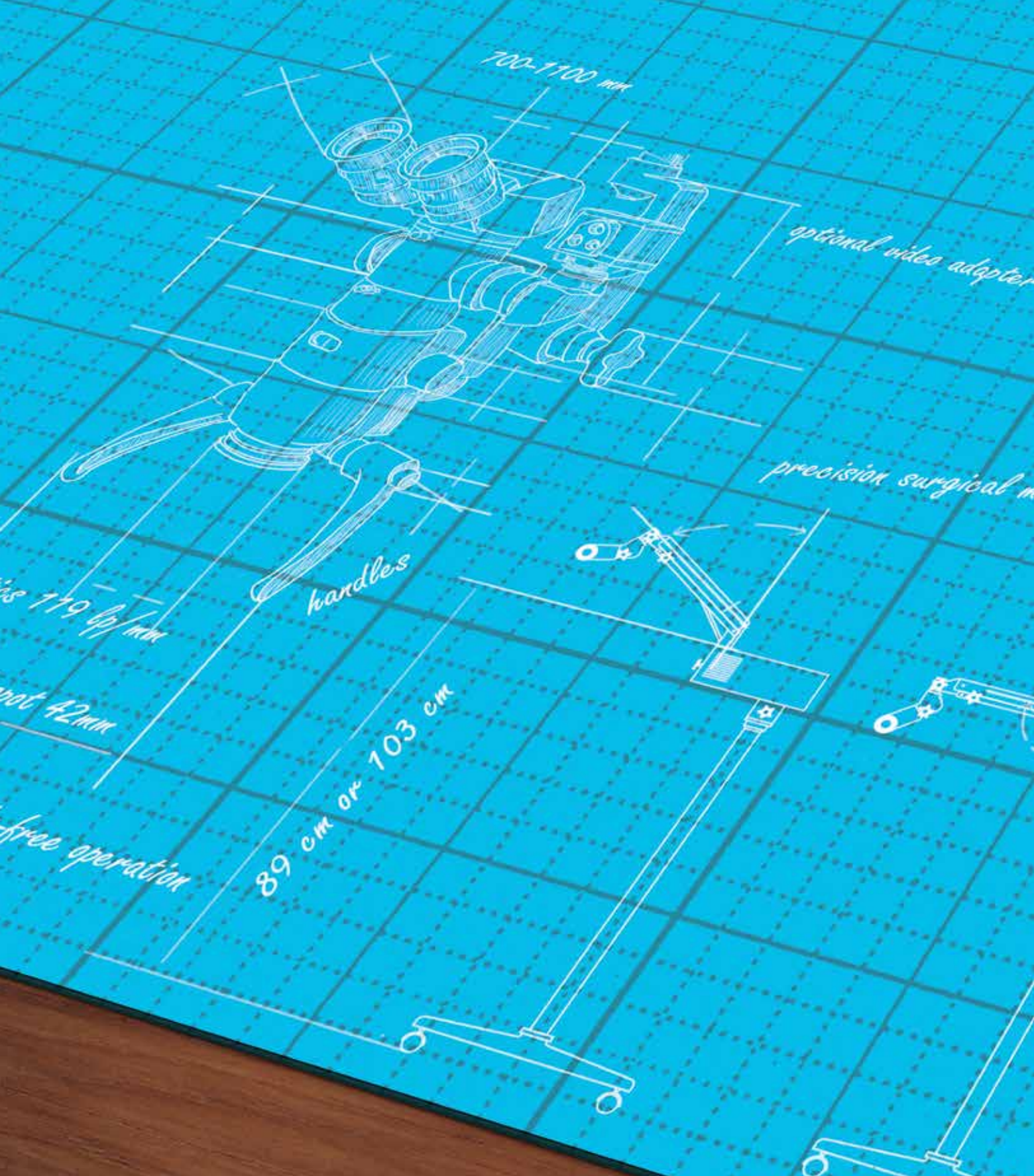
DURA DISSECTOR

- 20 cm (7.9 in.) Long
- Stainless Steel

- **503336** Dura Dissector



503336



700-1100 mm

optional video adapter

precision surgical microscope

handles

89 cm or 703 cm

119 lp/mm

42mm

free operation

LABORATORY & SURGICAL ACCESSORIES

EAR PUNCHES & TAGS FOR RODENTS

Animal researchers use our ear punches and tags as a method of identifying their research animals. These identification ear tags are perfect for rats, mice, rodents and small animals.

EAR TAGS

- 501866** Ear Tags, Pack of 100, Sequence 000-099
- 501867** Ear Tags, Pack of 100, Sequence 100-199
- 501868** Ear Tags, Pack of 100, Sequence 200-299
- 501869** Ear Tags, Pack of 100, Sequence 300-399
- 501870** Ear Tags, Pack of 100, Sequence 400-499
- 501871** Ear Tags, Pack of 100, Sequence 500-599
- 501872** Ear Tags, Pack of 100, Sequence 600-699
- 501873** Ear Tags, Pack of 100, Sequence 700-799
- 501874** Ear Tags, Pack of 100, Sequence 800-899
- 501875** Ear Tags, Pack of 100, Sequence 900-999
- 501893** Ear Tags, Pack of 1000, Sequence 000-999
- 504062** Ear Tags, Pack of 1000, Sequence 1000-1999
- 504063** Ear Tags, Pack of 1000, Sequence 2000-2999
- 504064** Ear Tags, Pack of 1000, Sequence 3000-3999
- 504071** Ear Tags, Pack of 1000, Sequence 4000-4999



EAR TAG APPLICATOR

- 503292** Ear Tag Applicator



503292

EAR PUNCH

- 10 cm (4 in.) Long
- Stainless Steel
- 500077** 2 mm Diameter
- 500076** 1 mm Diameter



500076

EAR PUNCHES

- Stainless Steel
- 500075** 5.7 cm (2.25 in.), 2 mm Diameter
- 504485** 5.5 cm (2.2 in.), 1 mm Diameter
- 504486** 5.5 cm (2.2 in.), 2 mm Diameter

NEW
ERGONOMIC
DESIGN



504485

BIOPSY PUNCHES

Surgeons and laboratory technicians use biopsy punches and curettes to remove tissue samples. These punches are for use in research laboratories.

REUSABLE BIOPSY PUNCHES WITH PLUNGER

- Individual Sterile Packs, Limited Reuse
- Tip material: 304 stainless steel
- Sterilization: ETO (ethylne oxide)



504529

APPLICATIONS

- **Electrophysiology**—Patch recording (various regions of the specimen can be punched prior to separation).
- **Biomedical Pharmacology**—Collect samples from the brain neurotransmitters for analyzing the metabolic changes in response to active substances, or skin samples to analyze the response of anti aging medications.
- **Anatomy**—Sample brain regions for analysis of neurotransmitter concentrations of mRNA levels.
- **Forensic Sampling**—WPI punches can easily cut, retrieve, store and eject material like skin, gel, films, paint chips and paper. (Better samples are collected using one of our self-healing cutting mats **504620** or **504621**.)
- **Microfluidics**—Punch flow inlets in microfluidics chambers molded of PDMS (polydimethylsiloxane).

504638	ID 0.35 mm, OD 0.63 mm, Wall 0.15 mm
504528	ID 0.50 mm, OD 0.80 mm, Wall 0.15 mm
504529	ID 0.75 mm, OD 1.07 mm, Wall 0.15 mm
504646	ID 1.0 mm, OD 1.26 mm, Wall 0.15 mm
504530	ID 1.2 mm, OD 1.5 mm, Wall 0.15 mm
504647	ID 1.5 mm, OD 1.9 mm, Wall 0.20 mm
504531	ID 2.0 mm, OD 2.4 mm, Wall 0.20 mm
504648	ID 2.5 mm, OD 2.9 mm, Wall 0.20 mm

504649	ID 3.0 mm, OD 3.4 mm, Wall 0.20 mm
504650	ID 3.5 mm, OD 3.9 mm, Wall 0.20 mm
504651	ID 4.0 mm, OD 4.4 mm, Wall 0.20 mm
504652	ID 5.0 mm, OD 5.5 mm, Wall 0.25 mm
504653	ID 6.0 mm, OD 6.5 mm, Wall 0.25 mm
504654	ID 7.0 mm, OD 7.5 mm, Wall 0.25 mm
504655	ID 8.0 mm, OD 8.5 mm, Wall 0.25 mm

REUSABLE RAPID-PUNCH BIOPSY KIT

The Rapid-Punch consists of a razor sharp cutting tip designed to cut, retrieve and store cored samples from source materials such as tissue, gels, paper, cloth, leaves, paint chips, films or other thin substrates. The Rapid-Punch is recommended as the special DNA sampling tool. It is ideal for forensic and most laboratory sampling purposes. Designed for heavy, numerous and precise sampling operations. It is durable, lasting up to 2000 punches.

504639	Reusable Rapid Punch Kit with 0.5 mm Tip
WP1010	Reusable Rapid Punch Kit with 1.0 mm Tip
WP1212	Reusable Rapid Punch Kit with 1.2 mm Tip
WP2020F	Reusable Rapid Punch Kit with 2.0 mm Tip
WP3030	Reusable Rapid Punch Kit with 3.0 mm Tip
504640	Replacement Tip for Rapid Punch size 0.5 mm
504641	Replacement Tip for Rapid Punch size 1.0 mm
504642	Replacement Tip for Rapid Punch size 1.2 mm
504643	Replacement Tip for Rapid Punch size 2.0 mm
504644	Replacement Tip for Rapid Punch size 3.0 mm
504735	Replacement Plunger for Rapid Punch, 0.5 mm
504736	Replacement Plunger for Rapid Punch, 1.0 mm
504737	Replacement Plunger for Rapid Punch, 1.2 mm
504738	Replacement Plunger for Rapid Punch, 2.0 mm
504739	Replacement Plunger for Rapid Punch, 3.0 mm



WP1010



Rapid-Punch with 0.5 mm tip

WORLD PRECISION INSTRUMENTS

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China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

DISPOSABLE BIOPSY PUNCHES — NO PLUNGER

Our disposable biopsy punches have a seamless, stainless steel, razor sharp cutting edge. They are individually packaged in color-coded, transparent, sturdy blister pack to protect the cutting edge. Its ribbed handle provides maximum control and comfort.

Pack of 50

- 501816** 1.5 mm Diameter
- 501817** 2.0 mm Diameter
- 501818** 3.0 mm Diameter



501818

CUTTING MATS FOR BIOPSY PUNCHES

- Protect your work surface and the cutting edge of your biopsy punches
- Ensure clean cuts without burrs or rough edges
- Reversible, inert, self-healing cutting mats for biopsy punches
- Sterilize with ethanol
- 1.5mm thick

Use our cutting mats for clean cuts through your tissue samples. Our mats ensure that your cored sample comes out whole without burrs or rough edges. Our 1.5mm thick, five layer composite cutting mats are reversible, inert and self-healing. These mats are designed for use with your biopsy punches.

- 504620** Cutting Mat, 2.5x3 in.
- 504621** Cutting Mat, 6x8 in.



SWABS & BRUSHES

Absorbent paper points are perfect for small surgeries, micro cleaning brushes are an excellent choice for cleaning fine surgical instruments, and our foam swabs work well as solvent applicators.

ABSORBENT PAPER POINTS

- Made from highly absorbent paper
- Uniformly rolled to ensure correct size
- Good for very small areas

- 504179** Sterile, C
- 504180** Sterile, Extra Fine
- 504181** Sterile, #15
- 504182** Sterile, M



504179

MICRO CLEANING BRUSHES

- Bendable handles
- Can be used to apply small amounts of liquid or to clean small areas
- Lint free
- Non-absorbent
- 2 mm diameter fiber head

- 503231** Vial of 100



503231

MEDIUM POINTED WRAPPED SWAB

Durable wrapped foam swabs designed for precise applications. Our wrapped foam swabs provide good particle entrapment and work well as solvent applicators. The small tips on many of the styles allow use in very tight tolerance areas. With the most durable head of any foam swabs, wrapped foam delivers superior abrasion resistance for removal of tough contaminants. Wicking action pulls solvent from surfaces. The small tip allows use in very tight tolerance areas, while the pointed end works especially as pick.

- Handle: nylon — Head: polyurethane foam
- Swab length: 7.1 cm (2.8 in.)
- Handle width: 2.5 mm (0.10 in.)
- Head length: 27.5 mm (1.08 in.)
- Head thickness: 3.6 mm (0.14 in.)
- Head width: 3.6 mm (0.14 in.)

504525 Medium Point, 125 per pack



504525

SMALL POINTED SEALED FOAM SWAB

Economical general purpose swabs. Best solvent retention. The most cost-effective swabs for general purpose applications. 100 ppi reticulated medical grade foam provides excellent particle entrapment. The open cell structure gives the best solvent holding ability of any style of swab. These swabs are free of adhesives or binders that could contaminate your application. Fiber-less construction does not generate particles.

- Handle: polypropylene
- Head: polyurethane foam
- Swab length: 8.0 cm (3.2 in.)
- Handle width: 2.4 mm (0.10 in.)
- Head length: 9.9 mm (0.39 in.)
- Head thickness: 2.7 mm (0.11 in.)
- Head width: 3.3 mm (0.13 in.)

504526 Small Pointed, Sealed, 125 per pack



504526

CATHETERS

Catheters (used for sampling or dosing) can vary and depend on access or animal size. We carry catheters used for common applications. All catheters are ETO sterilized. Need a custom design? Tubing diameters, material, beads, shapes and lengths of existing products can be modified, as necessary. Call us with your requirements at (866) 606-1974 (Toll free in the USA).

VASCULAR & ARTERIAL CATHETERS FOR MICE

504143 Carotid Artery Catheter, 32G, 82 mm, 1 per pack

504144 Femoral Artery Catheter, 110 mm, 1 per pack

TAIL VEIN CATHETERS

504147 Catheter for Mouse, 29G Cannula, 1 per pack

504148 Catheter for Rat, 23G Cannula, 1 per pack



504146

MICRO CANNULA

This micro cannula is ideal for placement in the carotid or femoral artery of mice, rats and other small animal blood vessels. It can be used with a pressure transducer (WPI's **BLPR2**) for blood pressure measurement, or in conjunction with a micro-syringe injection system (like WPI's **UMP3** or **MMP** pumps). The incorporated standard female luer fitting makes connecting to existing experimental plumbing quick and easy. The cannula is provided with a contoured-tip stainless steel stylet (trocar) to facilitate placement using established techniques. A movable "shoulder" ring provides a tie-in point to prevent accidental removal. The cannula may be left in place for two hours or more, and with proper care and cleaning, may be re-used multiple times. Instructions for use included.

- Biocompatible Perfluorocarbon Tubing Material
- 3 in.
- Autoclavable
- 0.4 mm OD
- 0.2 mm ID

KZ1101 3 in., Autoclavable, 3 in., 0.4 mm OD, 0.2 mm ID



KZ1101

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OTHER SURGICAL ACCESSORIES

This surgical instrument category includes a variety of items a researcher may need, like gloves, surgical instrument cases, cannulas and a surgery table that is perfect for rodents.

MAGNETIZER/DEMAGNETIZER

Instantly magnetize or demagnetize small surgical instruments and small steel parts that are over 1.3" in length and 1/8" in diameter. No batteries or electricity required. The box is high quality molded ABS plastic, impact resistant and cadmium free. Dimensions are 2"x2"x1" The innovative step design lets you control the level of magnetism imposed on your tools.

To magnetize a tool — Insert tool into the "+" opening and slide back and forth. Continue this procedure until the desired level of magnetism is reached.

To demagnetize a tool — Insert tool at the lowest "-" opening. Slide back and forth. Continue the procedure, moving up to the next step until the tool is completely demagnetized.

501900 Magnetizer/Demagnetizer



501900

NITRILE EXAM GLOVES, EXTRA THICK, POWDER FREE

- Latex-free exam gloves for durability and safety
- Ambidextrous
- Non-sterile, single use, disposable
- 100 gloves per box, 10 boxes per case
- Key Differentiator: High elongation of 550%

BENEFITS

- 5 Mil thickness for improved puncture resistance
- Micro-textured finish delivers improved grip

Robust® Blue Nitrile Powder-Free Examination Gloves are made from a special Nitrile (NBR) compound. They are ambidextrous and non-sterile. Each batch of gloves is air-tested to detect pinholes. Their 5 Mil thickness offers superior puncture resistance, and their micro-textured finish delivers improved grip.



- WP-93896** Gloves, Nitrile Powder-free, Small, Blue, Case of 10 boxes
- WP-93897** Gloves, Nitrile Powder-free, Medium, Blue, Case of 10 boxes
- WP-93898** Gloves, Nitrile Powder-free, Large, Blue, Case of 10 boxes
- WP-93899** Gloves, Nitrile Powder-free, X-Large, Blue, Case of 10 boxes
- WP-93896-1** Gloves, Nitrile Powder-free, Small, Blue, Box of 100
- WP-93897-1** Gloves, Nitrile Powder-free, Medium, Blue, Box of 100
- WP-93898-1** Gloves, Nitrile Powder-free, Large, Blue, Box of 100
- WP-93899-1** Gloves, Nitrile Powder-free, X-Large, Blue, Box of 100

ERGONOMIC MICRO-SHEAR FLUSH CUTTER

Micro-shears utilize a shearing cut to provide a clean and smooth cut. Anti-shock shear cutting greatly reduces mechanical shock delivered to the component and requires less effort to cut a wire as compared to compression wire cutters.

- Optimized to work in high density areas.
- Rockwell hardness of 55-57 RC.
- Cutting capacity: 18 AWG (1.02 mm) soft wire.
- Stainless Steel

The ergonomic design offers several benefits:

- Ergonomic handle reduces repetitive motion strain
- Anti-slip rubber outer surface for improved grip
- Perfect stiffness for increased productivity
- Easy pick up with or without gloves
- Ultimate operator comfort from UCP intelligent design
- ESD-safe material

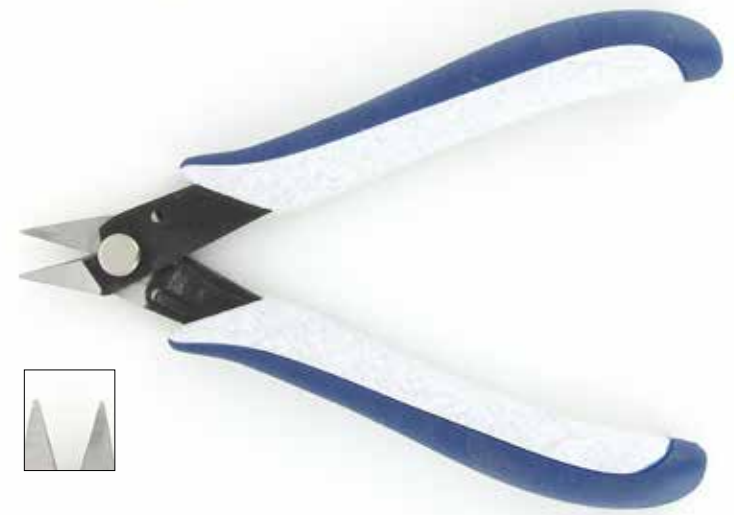
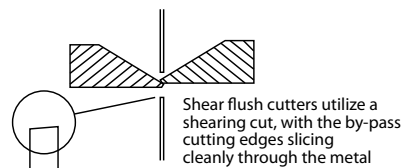
504749 12.7 cm (5 in.), Black Blades



ERGONOMIC MINI-SCISSORS

- Innovative design of these cutters lessens operator hand strain
- 12.7 cm (5 in.) Long
- Cutting capacity: 20 AWG (0.8 mm) soft wire
- 0.005" (0.127 mm) mylar, plastic and shielded cable
- Stainless Steel

504750 Ergonomic Mini-Scissors



ERGONOMIC MICRO-SHEAR FLUSH CUTTER

- Size and shape of these cutters are optimized to work in high density areas
- 12.7 cm (5 in.) Long
- Cutting capacity: 16 AWG (1.29 mm) soft wire
- Polished blades
- Stainless Steel

504751 Ergonomic Micro-Shear Flush Cutters

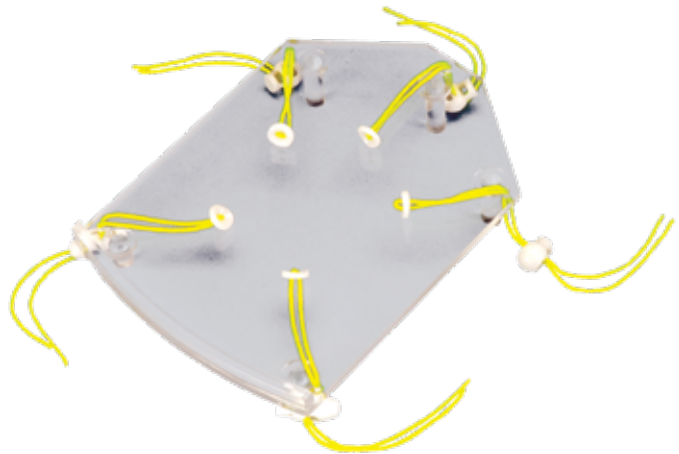


SURGERY TABLE

Constructed of clear acrylic, this economical surgery table features adjustable nylon cords for fast animal restraint and a slight incline for easy viewing. The acrylic construction is durable, yet easy to clean. The nylon cords can be adjusted at the point of contact with the animal and also under the table itself. The surgery table is designed for use in dissecting small animals such as frogs, birds, mice, rats, guinea pigs, etc.

- Acrylic
- 20x14.5 cm
- 4 cm High (Rear)
- 2 cm High (Front)

501892 Surgery Table



501892

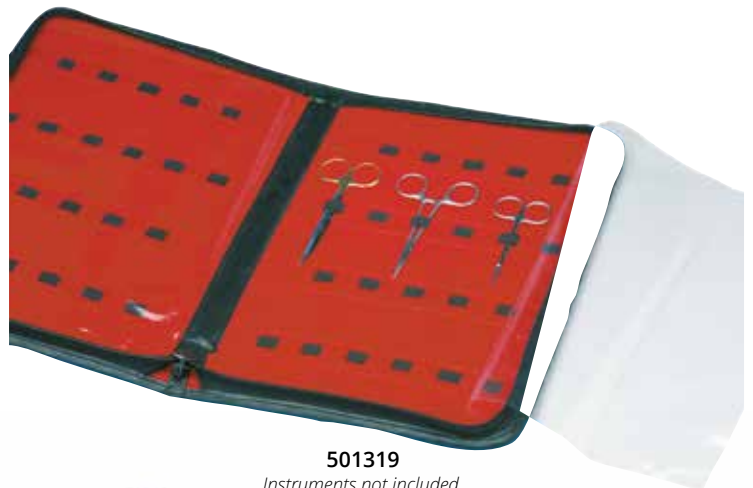
INSTRUMENT PORTFOLIO

Store your instruments in style. Elastic bands hold instruments in place against soft velveteen fabric. Portfolio folds in half and zips closed. Large portfolio holds up to 40 instruments, and the small portfolio holds up to 10.

501319 Large

503294 Small

501838 Canvas Pouch for Instruments



501319

Instruments not included.



501838

Instruments not included.

DISSECTABLE™ DISSECTION BOARD

Clean, safe, efficient way of handling infectious tissue specimens

A new and unique approach makes this dissection board more convenient than any other found on the market today. Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without bending.

- Reusable polyethylene
- Two sizes 575 x 400 cm or 330.2 x 279.4 cm
- Stain resistant
- Double sided one large area, or two smaller areas on opposite side
- Carved drain grooves
- Dimensional scales in centimeters and inches

WP-618 DissecTable Dissection Board, Small, 13 x 11 x 0.5", Case of 96

WP-620 DissecTable Dissection Board, Large, 23 x 16 x 0.5", Case of 48

WP-625 DissecTable Dissection Base for WPI-620, 23 x 16 x 0.5"



DISPO-CUT™ DISSECTION BOARD

Clean, safe, efficient way of handling infectious tissue specimens

The DispoCut™ Disposable Dissection Board is strong but inexpensive enough to throw away. It is a clean, safer and more efficient way of handling infectious tissue specimens. Ideal for pathology labs, medical schools, classroom dissections, forensic labs, medical research labs, pharmaceutical labs, surgery and more. When sterilizing, DispoCut™ may be safely wiped down with alcohol or autoclaved. Reversible.

- Reversible
- Printed imperial and metric dimensional scales in inches, centimeters and millimeters
- Seven dimensional circles from 4 to 16 mm and five larger ones from 2 to 6 cm in diameter
- Strong surface will not dull knives but well suited for using dissecting pins
- Temperature performance range: -27°C to 71°C (17°F to 160°F)
- Melting point: 162°C (324°F)



WP-630-1 DispoCut Dissection Board Small 6x8" Case of 96

WP-630-2 DispoCut Dissection Board Medium 9x12" Case of 48

WP-630-3 DispoCut Dissection Board Large 12x19" Case of 24

OMNIDRILL35 MICRO DRILL

Drill, grind or finish bone or teeth

FEATURES

- Excellent tool for grinding, finishing, and drilling bone and other material
- High-torque motor (35,000 rpm) is quiet
- Includes foot switch

BENEFITS

- Removable nose cone that can be cleaned and sterilized
- Consistent power for the duration of its use
- Variable speeds so you control the amount of heat generated

APPLICATIONS

- Grinding, finishing, cutting and drilling bone, teeth and other material

This line-powered micro drill will make easy work of grinding, finishing, cutting and drilling bone, teeth and other material. The high-torque 35,000 rpm (maximum) motor is quiet and has minimal vibration which reduces wear on the motor and provides greater comfort for you. It also features a forward and reverse switch, "E Type" handpiece and handpiece holder. The handpiece has a removable nose cone that can be cleaned and sterilized. It accepts 3/32" and 2.33 mm burr shanks. Unlike battery-powered drills, this unit maintains consistent power for the duration of use. The wide range of speeds allows you to control the amount of heat generated.

503598 OmniDrill35 Micro Drill System, 110 V

503599 OmniDrill35 Micro Drill System, 220 V

Stand, tips, cutoff disk, mandrels and footswitch are all included. Replacements available below.



OPTIONAL ACCESSORIES/REPLACEMENT PARTS

- 501850** Abrading Tip, Rubber, 5 per pack
- 501851** Abrading Tip, Stone, 5 per pack
- 501852** Accessory Stand
- 501853** Ball Mill, Carbide, #1, 0.031" Diameter, 5 per pack
- 501854** Ball Mill, Carbide, #2, .0039" Diameter, 5 per pack
- 501855** Ball Mill, Carbide, #3, 0.047" Diameter, 5 per pack
- 501856** Ball Mill, Carbide, #4, 0.055" Diameter, 5 per pack
- 501857** Ball Mill, Carbide, #5, 0.063" Diameter, 5 per pack
- 501858** Ball Mill, Carbide, #6, 0.071" Diameter, 5 per pack
- 501842** Ball Mill, Carbide, #7, 0.083" Diameter, 5 per pack
- 501860** Ball Mill, Carbide, #1/4, 0.019" Diameter, 5 per pack
- 501861** Ball Mill, Carbide, #1/2, 0.027" Diameter, 5 per pack
- 501862** Cutoff Disk, 20 per pack
- 501863** Mandrel, Screw, 5 per pack
- 501864** Mandrel, Threaded, 5 per pack
- 504459** Footswitch
- 502237** Stereotaxic Holder for OmniDrill35 Microdrill
- 503563** Micro Drill Accessories Kit (assorted bits & stand)

OMNIDRILL35 SPECIFICATIONS

INPUT	110 V, 50/60 Hz (503598) 240 V, 50/60 Hz (503599)
OUTPUT	0-32 VDC
FUSE	1 A
OPERATING SPEED	0-35,000 RPM
DIMENSIONS	178 x 114 x 89 mm (7 x 4.5 x 3.5 in.)
WEIGHT	1.7 kg (3.75 lb)



501850



501852



501862



501863



501851

PRECISION SURGICAL MICROSCOPE

Ideal for small animal surgery

FEATURES

- Motorized focusing system, allows hands-free operation
- Optional video adapter
- Improved optics 119 lp/mm
- Convenient handles
- New head tilting mechanism

BENEFITS

- Light weight, compact and easy to maneuver
- Dual bulbs prevent illumination failure during surgery
- Five magnification steps

APPLICATIONS

- Small animal surgery
- Veterinary surgery

WPI's improved precision **SurgioScope** (now with five magnification steps) is a portable, high quality surgical microscope offering outstanding image quality and value. Incorporating an agile extension arm and excellent working distance objectives, the SurgioScope provides convenient movement and maneuverability necessary for accurate positioning. These important features, together with a high quality optical system, provide sharp image contrast and enhanced large field of vision. The SurgioScope comes fully equipped with a foot-controlled motorized focusing system, normally only found in more expensive surgical microscopes. A unique dual lamp housing enables safe and rapid changing of the lamp during an operation, without the need to power down. The optional video port on the trinocular version permits operational procedures to be monitored or recorded simultaneously using a video recorder and a **COLCAM** video camera or digital stills with **USBCAM50**.



SURGIOSCOPE SPECIFICATIONS

TOTAL MAGNIFICATION (F200)	3.2x — 25x
ADJUSTABLE DIOPTER	± 6 Diopter
ADJUSTABLE INTERPUPILLARY DISTANCE	min. 50 mm — max. 70 mm
EYEPIECE	12.5x
FINE FOCUS ADJUSTMENT RANGE	30 mm
WORKING HEIGHT (Arm Movement Range Above Floor)	
89 cm Post.....Focus from 34.5" (88 cm) to 51" (130 cm) above floor *	
103 cm Post. Focus from 40.5" (103 cm) to 57" (146 cm) above floor*	
* Subtract Working Distance for height above specimen, 103 cm post recommended for F350 objective.	
RANGE OF MOTION	
Maximum Stretch Radius of Arm ..870 mm	
Vertical Movement Range	700-1100 mm
ILLUMINATION	
Spot = 42 mm	
Dual lamp housing with quick-change spare and internal coaxial fiber optic cable.	
HALOGEN-TUNGSTEN LAMP	12 V, 100W, with cold reflection
OPTIONAL CAMERA	COLCAM, USBCAM50 (1/2" CCD) USBCAM33 (1/2" CCD)
POWER	110 V, 50-60 Hz, or 220 V, 50-60 Hz
SHIPPING WEIGHT	94 lb. (43 kg)

Objectives

Objective	Working Distance	Magnification step	Visual Field of view (mm)	Camera field 1/2" CCD (mm)	Camera field 1/3" CCD (mm)
F100 #504284	90 mm	6.4, 10, 16, 26, 40x	25, 15.5, 10, 6, 4	25, 15.5, 10, 6, 4.5	17.5, 11.5, 7, 4.6, 2.8
F200 (included)	190 mm	3.2, 5, 8, 13, 20x	50, 31, 20, 12, 8	50, 31, 20, 12, 8	35, 23, 14, 9, 5.5
F250 #504285	240 mm	2.6, 4, 6.4, 10.4, 16x	65, 40, 25, 16, 10	63, 40, 25, 16, 10	45, 28, 18, 11, 7
F300 #504286	290 mm	2.1, 3.3, 5.3, 8.7, 13x	75, 46.5, 30, 18, 12	75, 46.5, 30, 18, 12	52.5, 34.5, 21, 13.5, 8.3
F350 #504287	340 mm	1.8, 2.9, 4.6, 7.4, 11x	91, 57, 36, 22, 14	88, 55, 35, 21, 13	60, 38, 24, 15, 9.5

For additional objectives and specifications, see www.wpiinc.com

PSMB5N Binocular SurgioScope, F200 objective

PSMT5N Trinocular SurgioScope, Beam Splitter, Standard Video Adapter, F200 Objective

Specify 89 cm or 103 cm post. Specify line voltage.

OPTIONAL ACCESSORIES/REPLACEMENT PARTS

501636	1/2" CS-mount Adapter (requires Beam Splitter 501637)
501637	Beam Splitter
504284	F100 Objective
504285	F250 Objective
504286	F300 Objective
504287	F350 Objective
500162	Replacement lamp, 12 V, 100 W

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RETRACTORS & EYE SPECULUMS

Retractors are used to hold an incision or a wound open, or to hold an organ or tissue out of the way to expose what is underneath. We stock three broad categories of retractors.

Self-retaining retractors have a mechanical device for holding the tissue during surgery, allowing hands free operations. Self-retaining retractors have a screw, ratchet or some type of clamp to hold the tissue by itself. These allow the surgeon to operate with two free hands.

Hand retractors must be held by an assistant, a robot or the surgeon during a procedure.

Wire Retractors are the simplest style of retractor. Usually the wire has some spring so that the surgeon can pinch it together, position it and release it. These also free up the surgeon's hands.

Our most common retractors include the Belfour, Gelpi, Weitlaner, Barraquer, Wire and Stevenson retractors.

EYE SPECULUMS

Eye Specula may be fixed or adjustable and are used in eye surgery procedures.

WIRE SPECULUM

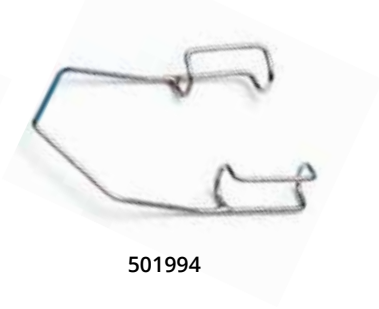
- 4 cm (1.6 in.) Long
- Maximum Spread 15 mm
- Stainless Steel

501993 5 x 5 mm Blades, 5 mm Depth

501994 13 x 5 mm Blades, 7 mm Depth



501993



501994

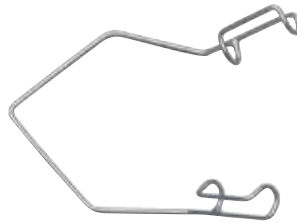
BARRAQUER SPECULUM

- 4 cm (1.5 in.) Long
- 10 x 4 mm Blades
- 7 mm Depth
- Maximum Spread 3 cm
- Stainless Steel

500369 Standard

500369-G German

Standard and German versions may differ slightly in appearance.



500369

WIRE SPECULUM

- 5 cm (2 in.) Long
- 10 x 5 mm Blades
- 5 mm Depth
- Stainless Steel

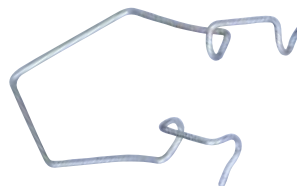
14130 Maximum Spread 13 mm

14130-G Maximum Spread 13 mm, German

500368 Maximum Spread 25 mm

500368-G Maximum Spread 25 mm, German

Standard and German versions may differ slightly in appearance.



14130

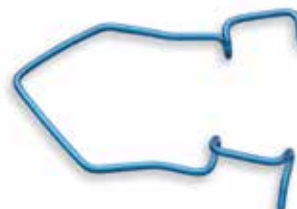


500368

WIRE SPECULUM

- 4.5 cm (1.75 in.) Long
- 13.5 mm Blades
- Maximum Spread 20 mm
- Titanium

555801L Wire Speculum



555801L

KD MOUSE/RAT EYE SPECULUM

- Stainless Steel

503363 Extra Small, 2 mm Blades, 1.75 mm Maximum Spread

501897 Small, 2.2 mm Blades, 5 mm Maximum Spread

501898 Medium, 3.2 mm Blades, 6 mm Maximum Spread

501899 Large, 4 mm Blades, 1 cm Maximum Spread



503363



501897



501898



501899

FIXED RETRACTORS

Self-Retaining Retractors have a mechanical device for holding tissue during surgery, allowing hands free operations. Self-retaining retractors have a screw, ratchet or some type of clamp to hold the tissue by itself. These allow the surgeon to operate with two free hands.

AGRICOLA RETRACTOR

Small, self-retaining retractor perfect for small animal surgery and dissection.

- 4 cm (1.6 in.) Long
- 3 x 3 Sharp prongs
- 2.5 cm Maximum spread
- Stainless Steel

501846 Agricola Retractor



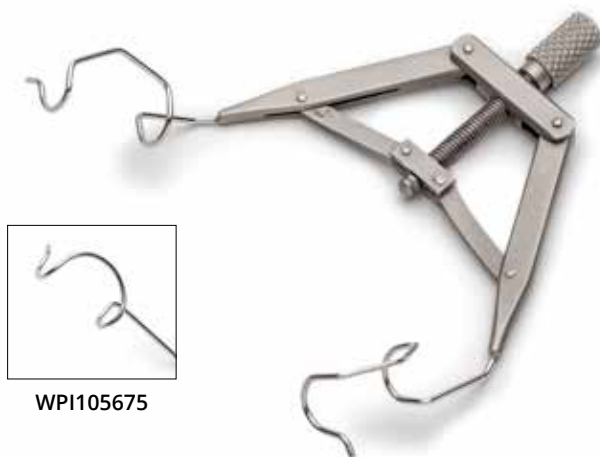
501846

LIEBERMANN SPECULUM, SELF-RETAINING

- 7 cm (2.8 in.) Long
- 15 mm Wire blades
- 6 cm Maximum spread
- Stainless Steel

WP105673 Liebermann Speculum, W Wire

WPI105675 Liebermann Speculum, V Wire



WPI105675

WP105673

LIEBERMANN SPECULUM, SELF-RETAINING, BLACK COATING

- 7 cm (2.8 in.) Long
- Black Coating
- 15 mm Wire blades
- 6 cm Maximum spread
- Stainless Steel,

WPB105675 Liebermann Speculum, W Wire, Black



WPB105675

RETRACTOR, SELF-RETAINING

- 7.5 cm (3 in.) Long
- Maximum spread 3 cm
- Square 1.2 cm blades
- Stainless Steel

504472 Retractor, Self-Retaining



504472

ALM SELF-RETAINING RETRACTOR

- 7 cm (2.75 in.) Long
- Loop prongs
- Stainless Steel

503675 ALM Self-Retaining Retractor



503675

MODIFIED ALM SELF-RETAINING RETRACTOR

Smaller, thinner prongs for use on mouse and rat eyelids

- 7 cm (2.75 in.) Long
- 2 x 2 Prongs
- 5.6 cm Maximum spread

501844 Modified ALM Self-Retaining Retractor



501844

GOLDSTEIN RETRACTOR

- Small, self-retaining retractor perfect for small animal surgery and dissection
- 3 x 3 Sharp Prongs
- Stainless Steel

501967 2 cm (0.78 in.), 1.0 cm Maximum Spread

501968 3 cm (1.18 in.), 1.8 cm Maximum Spread

501969 4 cm (1.57 in.), 3.5 cm Maximum Spread



501968

STEVENS RETRACTOR

- 8 cm (3 in.) Long
- 3 x 3 Prongs
- 3 mm Deep
- 15 mm Maximum spread
- Stainless Steel

14131 Stevens Retractor

14131-G Stevens Retractor, German

Standard and German versions may differ slightly in appearance.



14131

ALM SELF-RETAINING RETRACTOR

- 7 cm (2.75 in.) Long
- 4x4 prongs
- 6 cm Maximum spread
- Stainless Steel

14240 ALM Self-Retaining Retractor

14240-G ALM Self-Retaining Retractor, **German**

Standard and German versions may differ slightly in appearance.



14240

KNAPP SPECULUM

- 8.3 cm (3.25 in.) Long
- 15 x 6 mm Blades
- 4.6 cm Maximum spread
- Stainless Steel

14129 Knapp Speculum

14129-G Knapp Speculum, **German**

Standard and German versions may differ slightly in appearance.



14129

JANSEN RETRACTOR

- 11.5 cm (4.5 in.) Long
- 3 x 3 Prongs
- 3 cm Maximum Spread
- Blunt
- Stainless Steel

501770 Jansen Retractor

501770-G Jansen Retractor, **German**

Standard and German versions may differ slightly in appearance.



501770

SNOOK OVIARECTOMY HOOK

- 17.7 cm (7 in.) Long
- Stainless Steel

501289 Snook Oviarectomy Hook



501289

U.S. ARMY RETRACTOR

- 17.7 cm (7 in.) Long
- Set of 2
- Stainless Steel

501330 U.S. Army Retractor



501330

WORLD PRECISION INSTRUMENTS

GELPI RETRACTOR, SELF-RETAINING

- Stainless Steel
 - 501720** 14 cm (5.5 in.) Long
 - 501720-G** 14 cm (5.5 in.) Long, **German**
 - 501719** 11.5 cm (4.5 in.) Long
- Standard and German versions may differ slightly in appearance.



501720

SENN RETRACTOR

- 15.9 cm (6.25 in.) Long
 - Stainless Steel
 - 501327** Sharp
 - 501327-G** Sharp, **German**
 - 501718** Blunt
 - 501718-G** Blunt, **German**
- Standard and German versions may differ slightly in appearance.



501327

501718

WEITLANER RETRACTOR, SELF-RETAINING

- 10.2 cm (4 in.) Long
 - 2 x 3 Prongs
 - Stainless Steel
 - 501328** 3 cm Maximum Spread, Blunt
 - 501328-G** 3 cm Maximum Spread, Blunt, **German**
 - 501314** 4 cm Maximum Spread, Sharp
- Standard and German versions may differ slightly in appearance.



501328

WEITLANER RETRACTOR, SELF-RETAINING

- 14 cm (5.5 in.) Long
 - 3 x 4 Prongs
 - Stainless Steel
 - 501722** 4.5 cm Maximum Spread, Blunt
 - 501722-G** 4.5 cm Maximum Spread, Blunt, **German**
 - 501721** 4 cm Maximum Spread, Sharp
 - 501721-G** 4 cm Maximum Spread, Sharp, **German**
- Standard and German versions may differ slightly in appearance.



501722

WEITLANER RETRACTOR, SELF-RETAINING

- 16.5 cm (6.5 in.) Long
- 3 x 4 Prongs
- Stainless Steel

501724 6.5 cm Maximum Spread, Blunt

501724-G 6.5 cm Maximum Spread, Blunt, **German**

501723 7 cm Maximum Spread, Sharp

501723-G 7 cm Maximum Spread, Sharp, **German**

Standard and German versions may differ slightly in appearance.



501724

BABY BALFOUR ABDOMINAL RETRACTOR

- Works well for most small animals up to 60 lb.
- 9.5 cm (3.7 in.) Maximum spread
- Stainless Steel

504197 Baby Balfour Abdominal Retractor



504197

RETRACTOR, SELF-RETAINING

- For small animal surgery and dissection
- 4.5 cm (1.75 in.) Long
- Maximum spread 2.3 cm
- Stainless Steel

503209 Retractor, Self-Retaining



503209

CASTROVIEJO CALIPERS WITH SCREW LOCK

- Used to measure joints, small bones or to take eye measurements
- 75 mm (3 in.) Long
- 20 mm scale
- Stainless Steel

501200 Castroviejo Calipers with Screw Lock



501200

HOOKS, PROBES

Hooks and probes may be used for lifting and retracting tissues. For example, a dura hook is used to retract and hold the tough, outer layer of the membrane that encloses the brain, the dura.

HALVESTON "TEASER" HOOK

- 12.4 cm (4.9 in.) Long
- Stainless Steel

504061 Halveston "Teaser" Hook



504061

HALVESTON TISSUE RETRACTOR

- 12.5 cm (4.9 in.) Long
- Thin curved 7mm blade
- Stainless Steel

503759 Halveston Tissue Retractor



503759

TYRELL HOOK

- 13 cm (5 in.) Long
- Sharp
- Stainless Steel

14136 Tyrell Hook

14136-G Tyrell Hook, German

Standard and German versions may differ slightly in appearance.



14136

SCLERAL DEPRESSOR

- 13 cm (5 in.) Long
- Double-ended with pocket clip
- Stainless Steel

503353 Scleral Depressor



503353

ENGEL TENOTOMY HOOK

- 13 cm (5.1 in.) Long
- Double prong
- Sharp tips
- Stainless Steel

504021 Engel Tenotomy Hook



504021

DESMARRES LID RETRACTOR

- 14 cm (5.5 in.) Long
- Flat serrated handle

WP108200 Size 0: Blade 11 mm wide

WP108220 Size 1: Blade 13 mm wide

WP108230 Size 2: Blade 15 mm wide



WP108220

PROBE

- 14 cm (5.5 in.) Long
- 1.0 mm Diameter
- Stainless Steel

501313 Probe



501313

DISSECTING NEEDLES

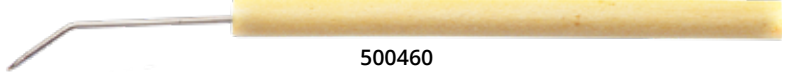
- 14 cm (5.5 in.) Long
- 12 per Box,
- Stainless Steel

500458 Straight

500460 Angled



500458



500460

WECKER SPATULA

- 14 cm (5.5 in.), Long
- Stainless Steel

501772 3 mm Wide Blade

501772-G 2 mm Wide Blade, German



501772

GRAEFE HOOK

- 15 cm (6 in.) Long
- Stainless Steel

503221 Graefe Hook



503221

DURA HOOK

- 15 cm (6 in.) Long
- Sharp
- Stainless Steel

503322 Dura Hook



503322

RODENT ACCESSORY

Safe, simple, effective!

FEATURES

- Large, stable base
- Hardened blades for long service
- Ambidextrous configuration
- 3 sizes
- Cuts through bone

BENEFITS

- Blades are drawn together by magnetic force to ensure a clean and precise cut through very strong bones and skin
- Spring action, locking device prevents blades from accidentally falling
- Fluoropolymer coated base for easy cleanup

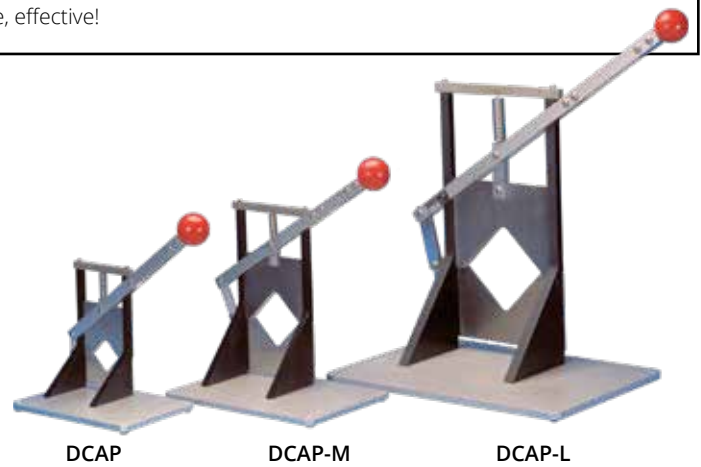
APPLICATIONS

- Decapitator

DCAP For Rodents/Other Small Animals, 1.5 x 1.5 in. Opening

DCAP-M For Large Rodents/Other Medium Animals, 2.5 x 2.5 in. Opening

DCAP-L For Larger Animals, 4.0 x 4.0 in. Opening

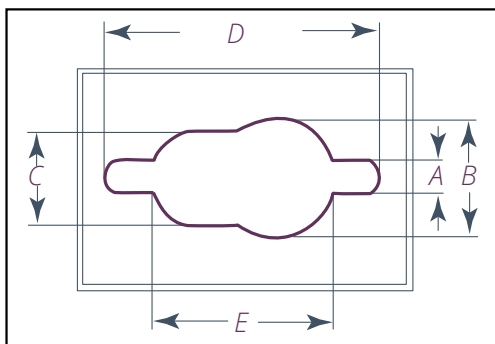


The small animal guillotine is easy to use with extra added safety features. There is a large base for stability, long handle for extra leverage, spring action so the blades can not fall down unexpectedly, hardened stainless blades for endurance, simplified construction for easy maintenance. The fluoropolymer coated surface on the base makes cleaning easy.

The guillotine is considered one of the most humane methods to sacrifice a subject.

RODENT BRAIN MATRICES

WPI offers a large selection of acrylic and stainless steel brain matrices. These matrices are sturdy and can be heated, chilled, autoclaved, scrubbed and stand up to rigorous daily use. Coronal matrices have the additional feature of a mid-line sagittal cut to facilitate splitting of the left and right hemispheres. Sections can be as fine as 1 mm. The olfactory/spinal/notch is cut into each matrix.



SPECIFICATIONS

Order #	Subject	Material	Section	A	B	C	D	E	Cavity Depth	Weight
RBMA-200C	Adult Mouse, 40-75 g	Acrylic	Coronal	3.18	11.1	8.73	19.1	12.2	7.4	0.5 lb.
RBMA-200S	Adult Mouse, 40-75 g	Acrylic	Sagittal	3.18	11.1	8.73	19.1	12.2	7.4	0.5 lb.
RBMA-300C	Rat, 175-300g	Acrylic	Coronal	4.76	15.9	12.7	36.6	23.8	7.61	0.5 lb.
RBMA-300S	Rat, 175-300g	Acrylic	Sagittal	4.76	15.9	12.7	36.6	23.8	7.61	0.5 lb.
RBMA-600C	Rat, 300g-600g	Acrylic	Coronal	4.76	19.8	14.7	36.6	24.7	10.91	0.5 lb.
RBMA-600S	Rat, 300g-600g	Acrylic	Sagittal	4.76	19.8	14.7	36.6	24.7	10.91	0.5 lb.
RBMS-200C	Adult Mouse	Stainless Steel	Coronal	3.18	11.1	8.73	19.1	12.2	7.4	1.0 lb.
RBMS-200S	Adult Mouse	Stainless Steel	Sagittal	3.18	11.1	8.73	19.1	12.2	7.4	1.0 lb.
RBMS-300C	Rat, 175-300g	Stainless Steel	Coronal	4.76	15.9	12.7	36.6	23.8	7.61	1.0 lb.
RBMS-300S	Rat, 175-300g	Stainless Steel	Sagittal	4.76	15.9	12.7	36.6	23.8	7.61	1.0 lb.
RBMS-600C	Rat, 300g-600g	Stainless Steel	Coronal	4.76	19.8	14.7	36.6	24.7	10.91	1.0 lb.
RBMS-600S	Rat, 300g-600g	Stainless Steel	Sagittal	4.76	19.8	14.7	36.6	24.7	10.91	1.0 lb.

LUER VALVE ASSORTMENT KIT

Build your own liquid flow experiment

FEATURES

- Over 300 assorted parts
- Luer fittings for quick and easy connect and disconnect

BENEFITS

- Sold individually or in kits

APPLICATIONS

- Liquid flow experimental setups

A useful kit (right) for building your own liquid flow experiment. It provides the means to start, stop, add, divide and control a flow of liquid or gas. Included in the kit are **over 200 assorted parts** such as one-way and three-way stopcocks, manifolds, Y-connectors, injection sites, male and female luer caps, check valves, syringe-activated check valves, slide clamps, roller clamps, and pinch clamps. All (except clamps) have a luer fitting for quick and easy connecting and disconnecting. Includes assorted luer fittings for use with flexible tubing.



14011

14011 Luer Valve Assortment Kit

LUER-TO-TUBING COUPLER ASSORTMENT KIT

Quick connects in nylon and polypropylene

FEATURES

- Over 250 assorted parts in each kit
- Valves are polycarbonate, and the valve handles are polyethylene. Do not autoclave those parts.

BENEFITS

- Polypropylene parts (504954) can be autoclaved repeatedly at 121°C/15PSI, 15 min. cycle
- Polypropylene fittings are chemically inert and resistant to most organic and inorganic solvents
- Nylon fittings are strong and can be bonded with adhesive.

APPLICATIONS

- Liquid flow experimental setups



504954



504955

504954 Luer-to-Tubing Coupler Assortment Kit (Polypropylene)

504955 Luer-to-Tubing Coupler Assortment Kit (Nylon)

Assemble quick-disconnect luer fittings for use with flexible tubing with internal diameters of 1/16", 3/32" and 1/8". A variety of quick-disconnect connectors can be quickly made for connecting small diameter flexible tubing; 3-way connections can be made with the use of the 3-way luer tee; luer plugs, tees, connectors, bulk-head mounts, color coding rings, locking nuts, male and female luers—are all included to enhance the versatility of this kit. The kit has over 250 assorted parts and is offered in two different types of materials. Nylon parts are not autoclavable.

WORLD PRECISION INSTRUMENTS

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Brazil: (013) 406-29703 • info@brazil.wpiinc.com • www.wpiinc.com

Germany: +49 (0)6031 1602171 • wpide@wpi-europe.com • www.wpi-europe.com
China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

LUER VALVE ASSORTMENT KIT 14011 PARTS

Build your own liquid flow experimental setup.



14034-40
Injection Site
Male Luer Lock
Pack of 40



14039-10
Check Valve
Pack of 10



14044-5
Syringe
Activated Dual
Check Valve
Pack of 5



14045-20
Syringe
Slip Luer Valve
Activated
Check
Pack of 20



13822-10
0.135"/"3.4 mm
OD Tubing
Pack of 10



14041-60
Roller Clamp
3/16" Tubing
Pack of 60



7465-20
Pinch Clamp
Large Bore
Pack of 20



14040-50
Pinch Clamp
for 7mm
Tubing
Pack of 50



3742-20
Female T Luer
Pack of 20



14047-10
4-Port Infusion Y
Swivel Thread
Pack of 10



14048-20
3-Port Infusion Y
Swivel Thread
Pack of 20



14057-10
4-Way Stopcock,
Luer Lock
Pack of 10



14036-15
4-Way Luer
Stopcock
Pack of 15



14058-10
4-Way Stopcock,
Luer Lock
Pack of 10



14035-10
4-Way Stopcock,
Luer Lock,
Pack of 10



14051-100
Pinch Clamp for 5
mm Tubing
Pack of 100



14038-10
1-Way Stopcock
Luer Lock,
Pack of 10



14054-10
1-Way Stopcock,
Luer Slip
Pack of 10



14055-2
4-Port Manifold (6 Female Ports)
Pack of 2



14059-2
3-Port Manifold (5 Female Ports)
Pack of 2



13156-100
Female Luer
Fitting for
1/16" ID Tubing
Pack of 100



13157-100
Female Luer
Fitting for
3/32" ID Tubing
Pack of 100



13158-100
Female Luer
Fitting for
1/8" ID Tubing
Pack of 100



13159-100
Female Luer
Fitting for
5/32" ID Tubing
Pack of 100



13160-100
Male Luer
Fitting for
1/16" ID Tubing
Pack of 100



13161-100
Male Luer
Fitting for
3/32" ID Tubing
Pack of 100



13162-100
Male Luer
Fitting for
1/8" ID Tubing
Pack of 100



13163-100
Male Luer
Fitting for
5/32" ID Tubing
Pack of 100



14061-60
Male/Female
Luer Plug
Pack of 60



14042-100
Slide Clamp
for 2.5 mm
O.D. Tubing
Pack of 100

Parts in kit may differ slightly in appearance from those pictured.

LABORATORY ADHESIVES

These adhesives are commonly used in a research laboratory.

ELECTRICALLY CONDUCTIVE SILVER EPOXY



Two-component silver-filled epoxy for electrical connections which cannot be soldered, such as Ag/AgCl pellets. This widely used silver-filled epoxy features low viscosity and smooth flowing character. Pure silver is dispersed in both resin and hardener. Cures in 15 minutes at 120 °C. Mix ratio 1:1. May be premixed and frozen for later use.

Shipping weight: 1 lb. (0.5 kg)

4898 Silver Epoxy (1 oz.)

SILICONE RTV ADHESIVE (NON-ACIDIC)



Because it is non-corrosive, this material is ideal for use on metal, for encapsulating small circuits on connectors. After cure, will withstand -55° to 200 °C. No mixing required.

Shipping weight: 1 lb. (0.5 kg)

7128 RTV Coating (3 oz.)

SYLGARD



A two-part silicone elastomer, ideal for potting and encapsulating applications. Very low dielectric constant sealing compound used in patch clamping and many other lab applications. After cure, will withstand -55° to 200 °C.

• Shipping weight: 2 lb. (1 kg)

SYLG184 Sylgard (1.1 lb)

ELECTRICALLY CONDUCTIVE CARBON EPOXY



Two-component carbon-epoxy, curable at room and elevated temperatures. Ideal for electrostatic discharge protection and EMI/RFI shielding. 1:1 mix ratio. May be premixed and frozen for later use.

Shipping weight: 1 lb. (0.5 kg)

7335 Carbon Epoxy (2 oz.)

SILICONE RTV ADHESIVE



Clear silicone sealant provides good bonding to plastic. After cure, will withstand -55 to 200 °C. No mixing required. A handy, general purpose laboratory sealant. (Releases acetic acid during curing.)

Shipping weight: 1 lb. (0.5 kg)

1571 RTV Sealant (4.7 oz.)

RTV PRIME COAT

Enhances adhesion of silicone adhesives to many difficult-to-bond plastic surfaces.

Shipping weight: 1 lb. (0.5 kg)

6820 RTV Prime Coat, 400 ml (13.5 oz.)



MINI GLUE GUN

Comes with three sticks of special formula hot melt glue. UL approved. 110V 60 Hz only.

Shipping weight: 1 lb. (0.5 kg)

13316 Mini Glue Gun

WORLD PRECISION INSTRUMENTS

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Brazil: (013) 406-29703 • info@brazil.wpiinc.com • www.wpiinc.com

Germany: +49 (0)6031 1602171 • wpide@wpi-europe.com • www.wpi-europe.com
China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn

PRECIOUS METAL AND SPECIALTY WIRE

Bare and coated metal wire for most laboratory applications



Annealed silver wire (AGWxxxx), 99.99% pure, is available in five diameters; three of those sizes are also available with a Teflon coating (AGTxxxx).

Gold wire (AUWxxxx) is 99.99% pure.

Carbon wire (C3005) is a single 30-micron fiber of electrochemically activated carbon. This fiber is especially useful in micro-electrochemical experiments.

Platinum/iridium wire — uncoated (PTxxxx) and Teflon-coated (PTTxxxx) — is an alloy of 90% platinum and 10% iridium, giving excellent tensile strength and corrosion resistance. Uncoated pure platinum wire (PTPxxx) is 99.95% pure.

Stainless steel wire (SSxxxxx) is type 316.

Teflon-coated stainless steel (type 304) wire (SSTxxxx) is available in 25-ft and 50-ft lengths. The Teflon coating is 150 micro-in. thick (4 µm). The Teflon coating is designed to reduce surface friction, only. It is not insulation.

Tungsten wire (TGWxxxx), available in three diameters, is 99.95% pure.

Micro coaxial cables (MAXxxxx) are ideal for microelectrode fabrication and construction of similar research tools. The dual shielding eliminates electrical interference caused by radio frequencies (RF), electrostatic and microphonics (e.g., bending and vibration). Available with single or dual (twin) conductors.

Catalog No.	Metal	Coating	AWG*	Diameter	Precut Length
AGT0510	Silver	Teflon	36	0.005 in. (0.125 mm) ¹	10 ft (3 m)
AGT0525	Silver	Teflon	36	0.005 in. (0.125 mm) ¹	25 ft (7.6 m)
AGT05100	Silver	Teflon	36	0.005 in. (0.125 mm) ¹	100 ft (30 m)
AGT1010	Silver	Teflon	30	0.010 in. (0.25 mm) ¹	10 ft (3 m)
AGT1025	Silver	Teflon	30	0.010 in. (0.25 mm) ¹	25 ft (7.6 m)
AGT10100	Silver	Teflon	30	0.010 in. (0.25 mm) ¹	100 ft (30 m)
AGT1510	Silver	Teflon	26-27	0.015 in. (0.38 mm) ¹	10 ft (3 m)
AGT1530	Silver	Teflon	26-27	0.015 in. (0.38 mm) ¹	30 ft (9.1 m)
AGW0510	Silver	—	36	0.005 in. (0.125 mm)	10 ft (3 m)
AGW0530	Silver	—	36	0.005 in. (0.125 mm)	30 ft (9.1 m)
AGW1010	Silver	—	30	0.010 in. (0.25 mm)	10 ft (3 m)
AGW1030	Silver	—	30	0.010 in. (0.25 mm)	30 ft (9.1 m)
AGW1510	Silver	—	26-27	0.015 in. (0.38 mm)	10 ft (3 m)
AGW1530	Silver	—	26-27	0.015 in. (0.38 mm)	30 ft (9.1 m)
AGW2010	Silver	—	24	0.020 in. (0.5 mm)	10 ft (3 m)
AGW2030	Silver	—	24	0.020 in. (0.5 mm)	30 ft (9.1 m)
AGW4010	Silver	—	18	0.040 in. (1.0 mm)	10 ft (3 m)
AUW0170	Gold	—	50	0.001 in. (0.025 mm)	70 ft (21 m)
AUW201	Gold	—	24	0.020 in. (0.5 mm)	1 ft (30 cm)
C3005	Carbon	—	49	0.0012 in. (30 µm)	5 ft (1.5 m)
PT1002	Platinum / Iridium	—	30	0.010 in. (0.25 mm)	2 ft (61 cm)
PT0402	Platinum / Iridium	—	38	0.004 in. (0.102 mm)	2 ft (61 cm)
PT0203	Platinum / Iridium	—	44	0.002 in. (0.051 mm)	3 ft (91 cm)
PT0110	Platinum / Iridium	—	50	0.001 in. (0.025 mm)	10 ft (3 m)
PTP101	Platinum	—	30	0.010 in. (0.25 mm)	1 ft (30 cm)
PTP201	Platinum	—	24	0.020 in. (0.5 mm)	1 ft (30 cm)
PTP401	Platinum	—	18	0.039 in. (1.0 mm)	1 ft (30 cm)
PTP406	Platinum	—	18	0.039 in. (1.0 mm)	0.5 ft (15.2 cm)
PTT0502	Platinum / Iridium	Teflon	36	0.005 in. (0.125 mm) ¹	2 ft (61 cm)
PTT0203	Platinum / Iridium	Teflon	44	0.002 in. (0.051 mm) ¹	3 ft (91 cm)
PTT0110	Platinum / Iridium	Teflon	50	0.001 in. (0.025 mm) ¹	10 ft (3 m)
SS31605	Stainless Steel	—	36	0.005 in. (0.125 mm)	50 ft (15.2 m)
SS31614	Stainless Steel	—	27	0.014 in. (0.36 mm)	30 ft (9.1 m)
SST30407-25	Stainless Steel	Teflon	33	0.007 in. (0.18 mm) ³	25 ft (7.6 m)
SST30407-50	Stainless Steel	Teflon	33	0.007 in. (0.18 mm) ³	50 ft (15.2 m)
TGW0325	Tungsten	—	40	0.003 in. (0.075 mm)	25 ft (7.6 m)
TGW0515	Tungsten	—	36	0.005 in. (0.125 mm)	15 ft (4.6 m)
TGW1510	Tungsten	—	26-27	0.015 in. (0.38 mm)	10 ft (3 m)

MICROCOAXIAL CABLES

MAX3820	Tinned Cu Alloy	Coaxial	0.0173 in. (0.44 mm)	20 ft (6 m) ⁴
MAX4020	Tinned Cu Alloy	Twin Coaxial	0.0158x0.024 in. (0.4x0.61 mm)	20 ft (6 m) ⁵

*Brown & Sharpe

1 Plus 0.002 in. for Teflon coating

3 Teflon adds 0.00015 in. (4 µm) to diameter

4 Impedance: 50 ohm; capacitance: 95 pF/m; resistance: 5 ohm/m

5 Impedance: 100 ohm; capacitance: 54 pF/m; resistance: 1.9 ohm/m

LABORATORY GLASSWARE

All WPI glassware meets or exceeds current ASTM standards

GRIFFIN BEAKERS

ASTM E960 Type I

- CG-0001** Griffin Beaker, 10 mL, Type I, Pack of 12
- CG-0002** Griffin Beaker, 20 mL, Type I, Pack of 12
- CG-0003** Griffin Beaker, 30 mL, Type I, Pack of 12
- CG-0005** Griffin Beaker, 100 mL, Type I, Pack of 12
- CG-0006** Griffin Beaker, 150 mL, Type I, Pack of 12
- CG-0007** Griffin Beaker, 250 mL, Type I, Pack of 12
- CG-0008** Griffin Beaker, 400 mL, Type I, Pack of 12
- CG-0009** Griffin Beaker, 600 mL, Type I, Pack of 6



GRIFFIN BEAKERS, HEAVY-DUTY*

ASTM E960 Type II

- CG-0010** Griffin Beaker, 1000 mL, Type I, Pack of 6
- CG-0015** Griffin Beaker, 150 mL, Type II, Pack of 12
- CG-0016** Griffin Beaker, 250 mL, Type II, Pack of 12
- CG-0017** Griffin Beaker, 400 mL, Type II, Pack of 12
- CG-0018** Griffin Beaker, 600 mL, Type II, Pack of 6
- CG-0019** Griffin Beaker, 1 L, Type II, Pack of 6
- CG-0020** Griffin Beaker, 2 L, Type II, Pack of 4

*25-30% heavier than standard weight beakers.

GRADUATED CYLINDER

Calibrated "To Deliver"

Class A, ASTM E1272, E542

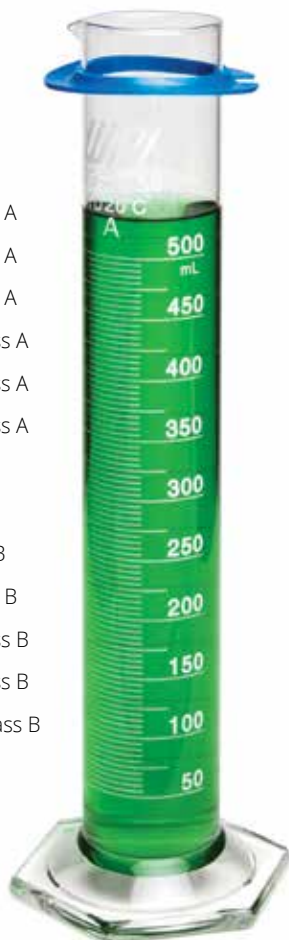
- CG-0150** Graduated Cylinder, 10 mL, Class A
- CG-0151** Graduated Cylinder, 25 mL, Class A
- CG-0152** Graduated Cylinder, 50 mL, Class A
- CG-0153** Graduated Cylinder, 100 mL, Class A
- CG-0154** Graduated Cylinder, 250 mL, Class A
- CG-0155** Graduated Cylinder, 500 mL, Class A

Class B

- CG-0160** Graduated Cylinder, 5 mL, Class B
- CG-0163** Graduated Cylinder, 50 mL, Class B
- CG-0165** Graduated Cylinder, 250 mL, Class B
- CG-0166** Graduated Cylinder, 500 mL, Class B
- CG-0167** Graduated Cylinder, 1000 mL, Class B

• Includes plastic bumper guards

• White enamel graduations



MIXING CYLINDER

Calibrated "To Deliver"

Class A, ASTM E542, E1272

- CG-0171** Mixing Cylinder, 25 mL, 0.2 mL div., Class A
- CG-0173** Mixing Cylinder, 100 mL, 1 mL div., Class A
- CG-0174** Mixing Cylinder, 250 mL, 2 mL div., Class A

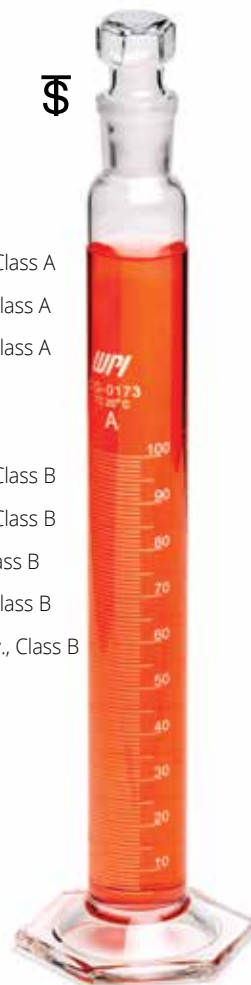
Class B

- CG-0180** Mixing Cylinder, 10 mL, 0.2 mL div., Class B
- CG-0181** Mixing Cylinder, 25 mL, 0.2 mL div., Class B
- CG-0182** Mixing Cylinder, 50 mL, 1 mL div., Class B
- CG-0183** Mixing Cylinder, 100 mL, 1 mL div., Class B
- CG-0187** Mixing Cylinder, 2000 mL, 20 mL div., Class B

• White enamel graduations

• Single metric scale

• S stoppers included





FILTER FLASKS WITH TUBULATION

ASTM E1406 Type II, Class 1

- CG-0081** Filter Flask, 50 mL, with Tubulation (8 mm OD), #4 stopper, 6/pkg
- CG-0082** Filter Flask, 125 mL, with Tubulation (10 mm OD), #5 stopper, 6/pkg
- CG-0083** Filter Flask, 250 mL, with Tubulation (10 mm OD), #6 stopper, 6/pkg
- CG-0084** Filter Flask, 500 mL, with Tubulation (10 mm OD), #7 stopper, 6/pkg
- CG-0085** Filter Flask, 1000 mL, with Tubulation (10 mm OD), #8 stopper, 6/pkg

**25-30% heavier than standard weight flasks.*

For easy connections to filter pumps. Necks are finished to give excellent fitting for rubber stoppers (not included).

ERLENMEYER FLASKS WITH NARROW MOUTH

ASTM E1404, Type I, Class 1

- CG-0100** Erlenmeyer Flask, 25 mL, Narrow Mouth, stopper #0, 12/pkg
- CG-0101** Erlenmeyer Flask, 50 mL, Narrow Mouth, stopper #1, 12/pkg
- CG-0102** Erlenmeyer Flask, 125 mL, Narrow Mouth, stopper #5, 12/pkg
- CG-0103** Erlenmeyer Flask, 250 mL, Narrow Mouth, stopper #5½, 12/pkg
- CG-0104** Erlenmeyer Flask, 500 mL, Narrow Mouth, stopper #7, 6/pkg
- CG-0105** Erlenmeyer Flask, 1000 mL, Narrow Mouth, stopper #9, 6/pkg



BEAKER MUG



This handy 300 mL "Caffeine Beaker" will be right at home in the lab or the office, with your favorite beverage, hot or cold (even those lacking caffeine). Yes, it's heat resistant but is *not* for use on a burner or hot plate. (Cookies not included.)

- CG-9999** Coffee Beaker, 300 mL

MORTAR & PESTLE



- CG-0600** Mortar & Pestle, Glass, 2 oz. (59 mL), 8.9 cm OD
- CG-0601** Mortar & Pestle, Glass, 4 oz. (118 mL), 10 cm OD

GLASSWARE SAMPLE SET



- CG-9998** Glassware Sample Set

DIGITAL CALIPER

For easy and accurate measurements

The high quality electronic digital caliper is a useful tool — no laboratory should be without one because it is more accurate and easier to use than the traditional analog devices. Measure in either inches or millimeters at the touch of a button. The floating zero feature allows you to read the increment without calculation. The caliper is made from hardened stainless. The caliper measures up to 150 mm (6 in.) with 0.01 mm (or 0.0005") resolution. The caliper is designed to be water-resistant to IP54 as defined in the IEC529 standard. The IP54 code's first digit "5" means dust-protected. The second digit "4" means that the caliper is protected against splashing water — it can withstand a shower from every direction for 10 minutes.



501601 Digital Caliper

502157 Replacement Battery (package of 10)

NON-ROTATING SPINDLE DIGITAL MICROMETER HEAD

Build your own precision micro-positioning device

The new non-rotating spindle digital micrometer head allows you to create your own micro-positioning instrument. With micron-level accuracy, it gives higher precision than a normal micromanipulator. Since the spindle does not rotate as it advances, instruments can be directly attached without the need for a complicated decoupling device. The digital display eliminates the need to squint at the notational scale. Readings can be clearly seen in either inches or millimeters. You can read both absolute position and the increment relative to a previously chosen point.



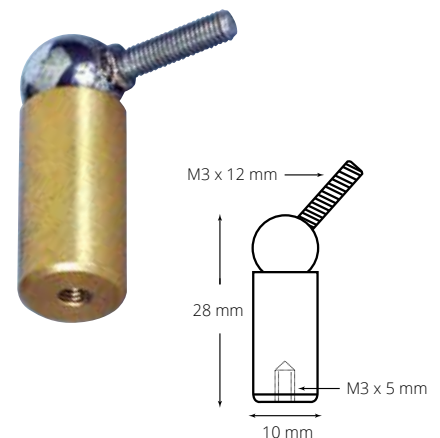
502102 Non-Rotating Spindle Micrometer Head

POWERFUL BALL JOINT RARE EARTH MAGNET

Construct holding devices for small parts/equipment

- Small but very powerful: holds 2 kilograms (~5 pounds)!
- Steel ball rotates freely 360° on a 180° axis
- M3 mounting screw on ball for attachment to equipment
- Magnet base threaded (M3) for mounting onto a base or equipment

This novel magnetic ball joint has phenomenal holding power for up to 2kg of attached weight while permitting the ball a full 360° rotation on a 180° axis. You can freely orient your equipment to an infinite number of positions within this rotation. This is made possible by the combination of a steel ball (10 mm diameter) and a powerful rare earth magnet contained in the magnet cylinder (ϕ 10 x 20 mm). Convenient M3 attachment sites are provided on both the ball (male) and the magnet base (female). For use with micromanipulators for the positioning and holding of optical instruments including various lighting sources and lasers, pipettes and any small parts that would benefit from the flexibility offered by this new magnetic ball joint.

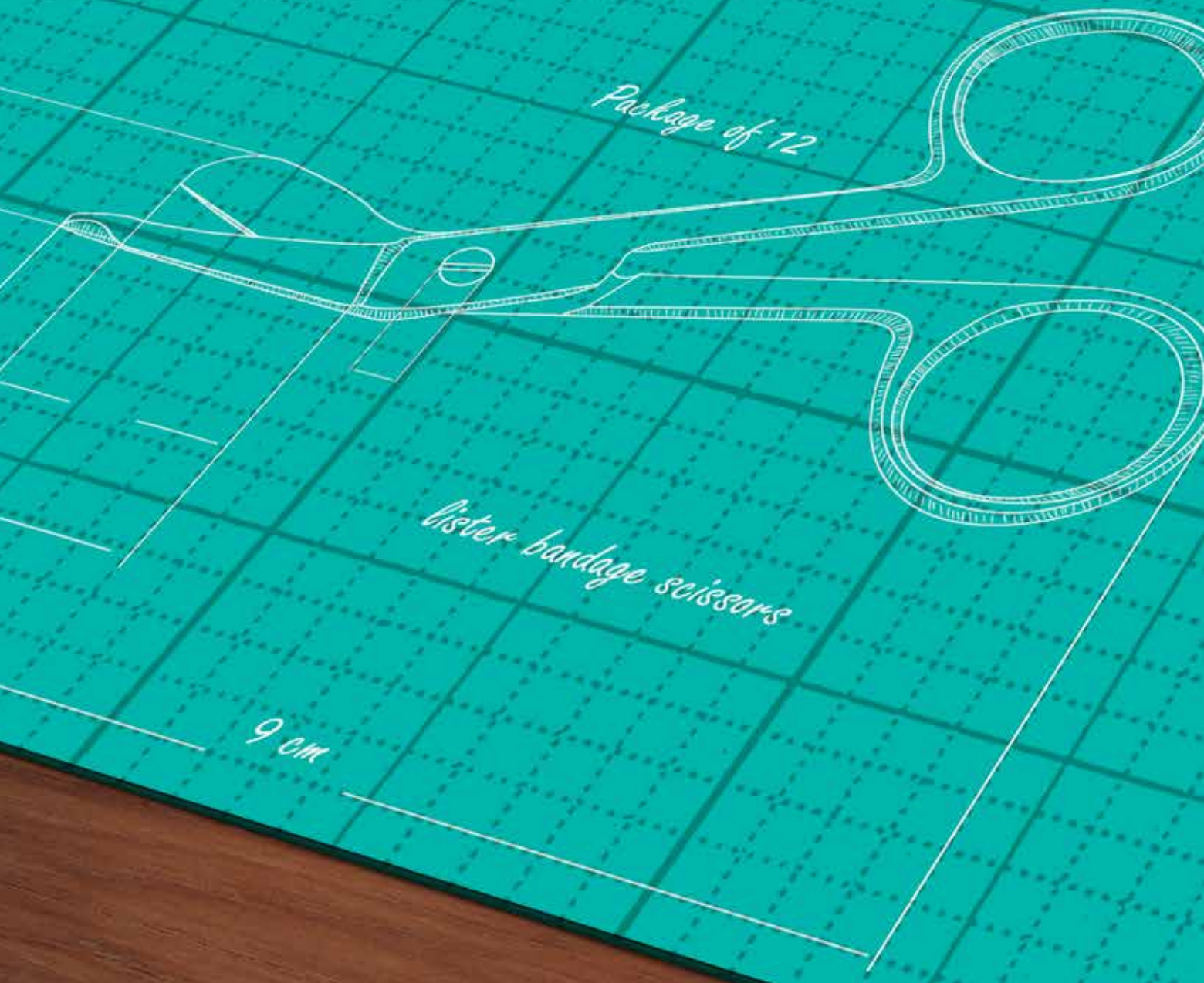


500871 Magnetic Ball Joint

WORLD PRECISION INSTRUMENTS

UK: +44 (0)1462 424700 • wpiuk@wpi-europe.com • www.wpi-europe.com
 Brazil: (013) 406-29703 • info@brazil.wpiinc.com • www.wpiinc.com

Germany: +49 (0)6031 1602171 • wpide@wpi-europe.com • www.wpi-europe.com
 China: +86 21 6888 5517 • chinasales@china.wpiinc.com • www.wpiinc.cn



Package of 12

Lister-Bandage Scissors

9 cm

**SINGLE OR LIMITED
USE INSTRUMENTS**

CHROME-FINISH STAINLESS SINGLE USE INSTRUMENTS

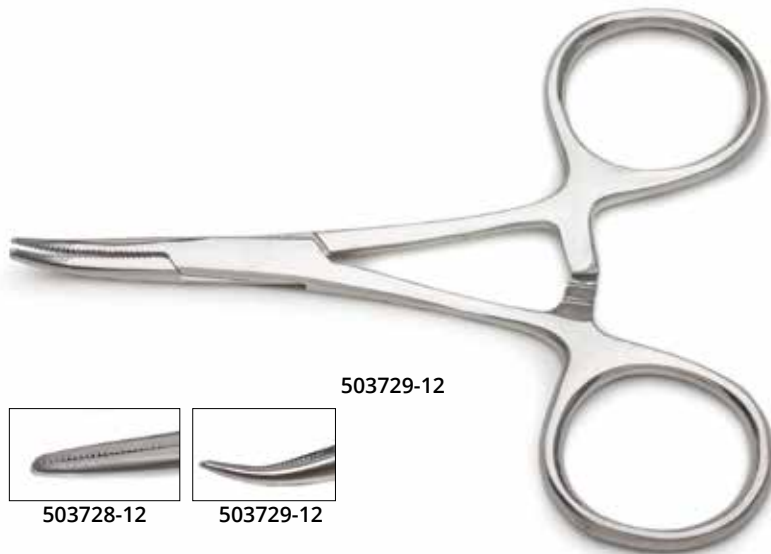
You can get discounts if you buy surgical instruments in bulk. Our economy surgical instruments are typically sold in packages of 12. These are an ideal choice for students or for one-time use. All our bulk instruments are all made of surgical grade stainless steel. All sales are final on single use instrument packs.

HARTMAN MOSQUITO FORCEPS

- 9 cm Long
- 12 per pack
- Stainless Steel

503728-12 Straight

503729-12 Curved



503728-12



503729-12

IRIS SCISSORS

- 11.5 cm Long
- 12 per pack
- Stainless Steel

503708-12 Iris Scissors, Straight



503708-12

ADSON FORCEPS

- 12 cm Long
- Straight
- 12 per pack
- Stainless Steel

503719-12 Serrated Tips

503720-12 1 x 2 Teeth



503720-12

IRIS FORCEPS

- 10 cm Long
- Serrated
- 12 per pack
- Stainless Steel

503721-12 Straight

503722-12 Curved



503721-12



503722-12

WORLD PRECISION INSTRUMENTS

HALSTEAD MOSQUITO FORCEPS

- 12.5 cm Long
- 12 per pack
- Stainless Steel

503723-12 Straight

503724-12 Curved



CRILE FORCEPS

- 14 cm Long
- 12 per pack
- Stainless Steel

503700-12 Straight

503701-12 Curved

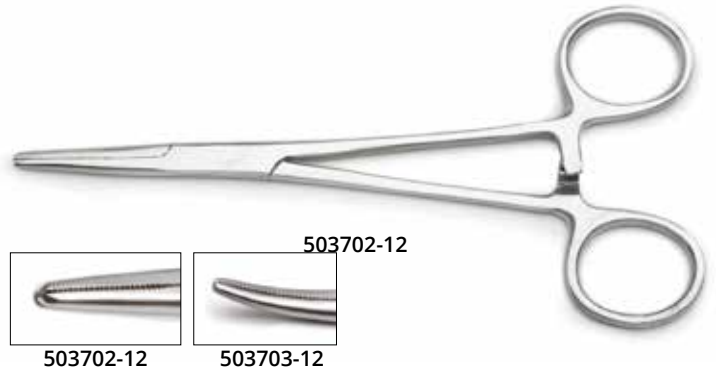


KELLY FORCEPS

- 14 cm Long
- Straight
- 12 per pack
- Stainless Steel

503702-12 Straight

503703-12 Curved



BOZEMAN FORCEPS

- 25 cm (9.8 in.) Long
- Curved
- 12 per pack
- Stainless Steel

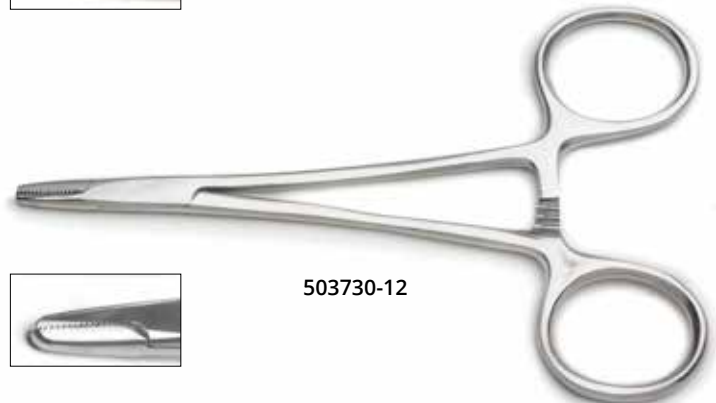
503710-12 Bozeman Forceps



DERF NEEDLE HOLDERS

- 12.5 cm (5 in.) Long
- Straight
- 12 per pack
- Stainless Steel

503730-12 Derf Needle Holders



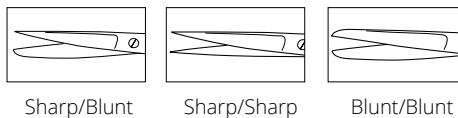
OPERATING SCISSORS

- 14 cm (5.5 in.) Long
- 12 per pack
- Stainless Steel

- 503717-12** Blunt/Blunt, Straight
- 503713-12** Blunt/Blunt, Curved
- 503714-12** Sharp/Blunt, Straight
- 503715-12** Sharp/Blunt, Curved
- 503716-12** Sharp/Sharp, Straight
- 503727-12** Sharp/Sharp, Curved
- 503718-12** Sharp/Blunt, Curved



503714-12



Sharp/Blunt

Sharp/Sharp

Blunt/Blunt

MAYO HEGAR NEEDLE HOLDERS

- Straight
- 12 per pack
- Stainless Steel

- 503732-12** 17.8 cm (7 in.) Long
- 503733-12** 15 cm (6 in.) Long



503733-12



503732-12

503729-12

WEBSTER NEEDLE HOLDERS

- 12.5 cm (5 in.) Long
- Straight
- 12 per pack
- Stainless Steel

- 503731-12** Webster Needle Holders



503731-12



CRILE-WOOD NEEDLE HOLDERS

- 17.8 cm (7 in.) Long
- Straight
- 12 per pack
- Stainless Steel

- 503725-12** 17.8 cm (7 in.) Long
- 503726-12** 15 cm (6 in.) Long



503726-12



503725-12

503726-12

WORLD PRECISION INSTRUMENTS

SINGLE- OR LIMITED-USE MICROSURGICAL INSTRUMENTS

Non-sterile packages of 10. All sales are final.



SPECULUMS

- WP67418** Barraquer Eye Speculum, Pediatric, Closed Loop Wire, 10 mm Blades, 25 mm wide, 10 per pack, Stainless Steel
WP30258 Wortham Eye Speculum, Pediatric, Closed Loop 34x21 mm, retraction size 10x3.5 mm, 10 per pack, Stainless Steel
WP47418 Barraquer Eye Speculum, Adult, Solid 13 mm Blades, 31 mm wide, 10 per pack, Stainless Steel
WP37418 Lancaster Eye Speculum, 15 mm Blades, 8 cm Long, Solid Blades with Spring and Tension Control Screw, 10 per pack, Stainless Steel
WP57418 Castroviejo Eye Speculum, Fenestrated Blades, Screw Control Spread, 84 mm Long, 10 per pack, Stainless Steel

FORCEPS

- WP90418** Bonn Forceps, 10 cm Long, 0.12 mm 1x2 Teeth with 5 mm Platform, Flat Handle, 10 per pack, Stainless Steel
WP15418 Utrata Capsulorhexis Forceps, 9.5 cm Long, Straight, Cystotome Tip, 13 mm Bend, 9.5 cm Long, 10 per pack, Stainless Steel
WP28418 Masket Capsulorhexis Forceps, 10 cm Long, Curved, Cystotome Tip, 11 mm Bend, Fine Tips, 10 per pack, Stainless Steel
WP38418 Capsulorhexis Forceps, straight, cystotome tip 11 mm, round, 10.8 cm, 10 per pack, Stainless Steel
WP65418 Colibri Forceps (Barraquer), 7.7 cm Long, 0.12 mm 1x2 Teeth, 10 per pack, Stainless Steel
WP75418 Castroviejo Colibri Forceps, 10.8 cm Long, 0.12 mm 1x2 Delicate Teeth, Flat Handle, 10 per pack, Stainless Steel
WP11418 Tying Forceps, curved, 9.6 cm Long, 6 mm Tying Platform, Flat Handle, 10 per pack, Stainless Steel
WP06418 Paufigue Suture Forceps, 8.5 cm Long, Straight, 1x2 Teeth, 6 mm Tying Platform, 10 per pack, Stainless Steel
WP61418 MacPherson Forceps, 10 cm, Long, Angled, 12 mm from Tip to Bend, Flat Handle, 10 per pack, Stainless Steel
WP63418 Moorfield Forceps, 12 cm Long, Straight, 14 mm Grooved Tips, Flat Handle, 10 per pack, Stainless Steel
WP71418 Barraquer Needle Holder without Lock, 10.5 cm, Curved, Smooth Tips, 6 mm Jaws, 10 per pack, Stainless Steel
WP86418 Barraquer Needle Holder with Lock, 12 cm, Curved, 6 mm Jaws, 10 per pack, Stainless Steel

SCISSORS

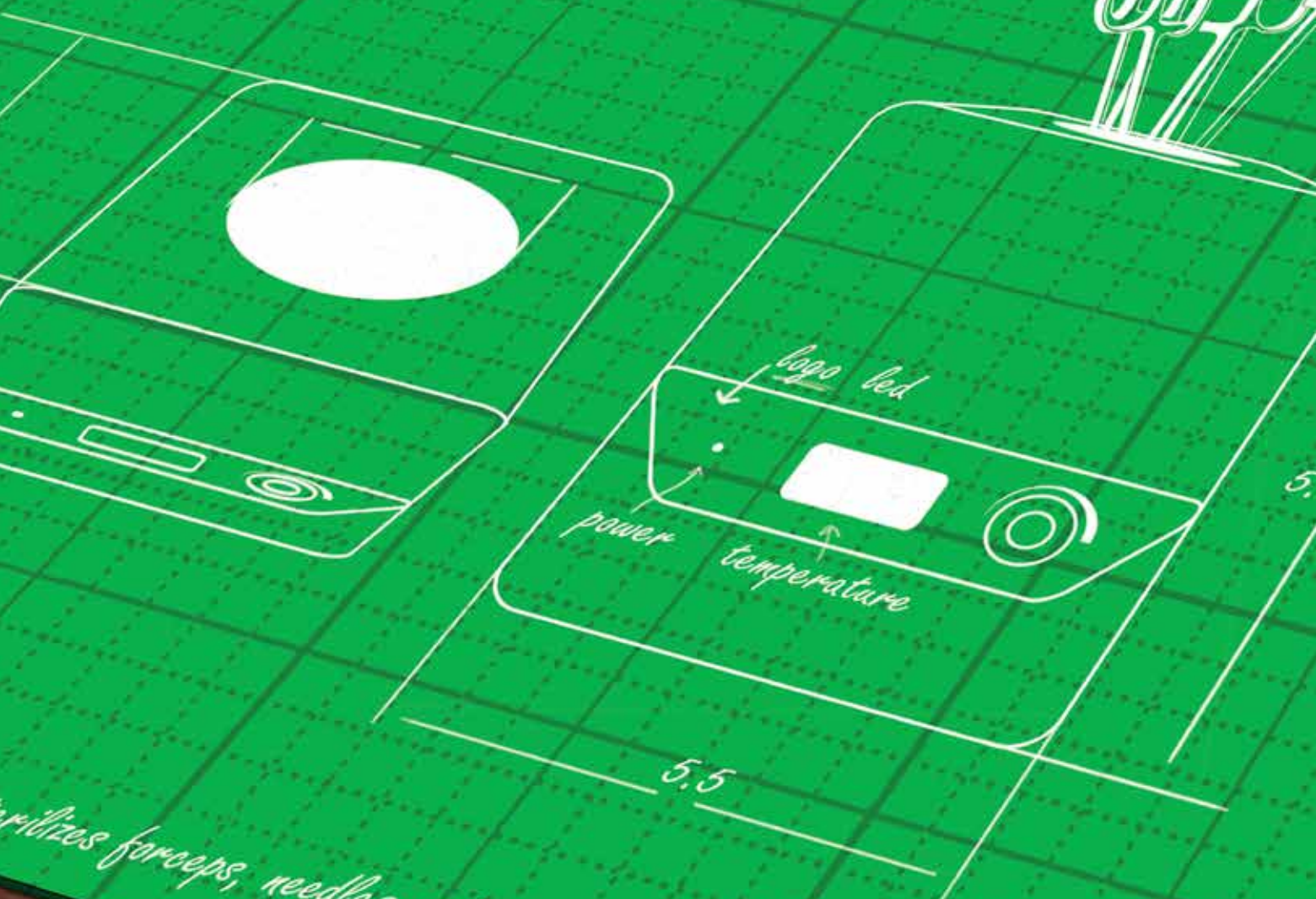
- WP22418** Vannas Scissors, 9 cm Long, Curved, 9.5 mm Blades with Sharp Pointed Tips, 10 per pack, Stainless Steel
WP07018 Castroviejo Corneal Scissors, 10 cm Long, Angled Right, 9 mm Blades, Blunt Tips, 10 per pack, Stainless Steel
WP05418 Desmarres Chalazion Forceps, 10.5 cm, Solid 26 mm Wide Lower Plate, Upper Plate Oval 15x23 mm, 10 per pack, Stainless Steel
WP96418 Castroviejo Corneal Scissors, 10 cm Long, Angled Left, 9 mm blades, Blunt Tips, 10 per pack, Stainless Steel
WP27418 Westcott Scissors, 11.2 cm Long, 16 mm Blades with Blunt Tips, 10 per pack, Stainless Steel
WP73418 Westcott Scissors, 10.5 cm Long, 23 mm Blades with Curved Blunt Tips, 10 per pack, Stainless Steel
WP17118 Strabismus Scissors, 10.4 cm Long, Curved, 25 mm Blades, 10 per pack, Stainless Steel

MANIPULATORS

- WP76418** Nagahara Phaco Chopper, 11.5 cm Long, Angled Blade, 1.4 mm Tip, 10 per pack, Stainless Steel
WP21418 Burrato Hook, 12 cm Long, 45° Angle, 0.25 mm Diameter, Blunt tip, 10 per pack, Stainless Steel
WP32418 Straight Micro Manipulator, 12 cm Long, 45° Angled, 0.35 mm Diameter, 10 per pack, Stainless Steel
WP64618 Lester Lens Manipulator, 11.5 cm Long, 45° Angle, 0.44 mm Diameter Hourglass Shaped Tip, 10 per pack, Stainless Steel
WP56418 Drysdale Nucleus Manipulator, 11.5 cm Long, 1.1 mm Flattened Paddle Tip, 10 per pack, Stainless Steel
WP66418 Pisacano Nucleus Rotator, 11.5 cm Long, 45° Angle, 0.7 mm Diameter Flat Blunt Tip, 10 per pack, Stainless Steel
WP26418 Mann-Hunkeler Capsule Retractor, 11.5 cm Long, Angled, 0.6 mm Diameter Semiball Tip, 10 per pack, Stainless Steel
WP16418 Chalazion Curette, 13 cm Long, Double Ended, Sharp, 1.5 mm and 2.5 mm Diameter, 10 per pack, Stainless Steel
WP97418 Graefe Strabismus Hook, 13.5 cm Long, Straight, Blunt Tip, 10 per pack, Stainless Steel

steri-life

*115/220v
50-60 Hz
120 W*



sterilizes forceps, needles and other instruments

STERILIZERS, CLEANERS & ACCESSORIES

DRY STERILIZER

Heat sterilize instruments in seconds

STERI-LITE MICRO BEAD STERILIZER

FEATURES

- Large LED control panel
- Adjustable temperature control up to 300°C
- Sterilizes forceps, needles and other instruments
- Choose Bead capacity: 300 g (**ST5193**), 150 g (**ST5191**)

BENEFITS

- No chemicals
- No flames
- No risk of burns
- No disinfectant fluids

APPLICATIONS

- Sterilize your microdissecting and tissue culture instruments, thoroughly and conveniently, in seconds

WPI's Steri-Lite Micro Bead Sterilizer is ideal for the sterilization of small research instruments (forceps, scissors, etc.). When the chamber is filled with the included glass beads, high temperatures (up to 300°C) can be used to eliminate bacteria, spores and other microorganisms.

Chamber temperature is displayed on the large LED control panel and may be adjusted with the control knob. The outer casing of the unit stays cool to the touch, even when it is used continually. The supplied safety cover can be placed over the chamber to conserve energy and reduce the heating/ramping rate. The Steri-Lite Sterilizer does not use gas, flame or chemicals and is safe for use in hoods.

With adjustable temperature, the sterilizer can be used for incubations and the decontamination of plastic objects/tools.

This product is designed for RESEARCH and DEVELOPMENT USE ONLY.



STERI-LITE SPECIFICATIONS

TEMPERATURE RANGE:	100 to 300°C
PREHEAT TIME:	Approximately 25 min. to 300°C
CHAMBER DIAMETER:	40 mm
CHAMBER HEIGHT:	ST5191: 80 mm ST5193: 140 mm
DIMENSIONS:	ST5191: 14x14.5x15.5 cm (5.5x5.7x6.1 in.) ST5193: 14x14.5x21.5 cm (5.5x5.7x8.7 in.)
BEAD CAPACITY:	ST5191: 150 g ST5193: 300 g
WEIGHT:	ST5191: 2 Kg ST5193: 2.5 Kg
ELECTRICAL:	ST5191: 115 V or 230 V, 50-60 Hz, 120 W ST5193: 115 V or 230 V, 50-60 Hz, 250 W
WARRANTY:	2 Years

ST5193 Steri-Lite Micro Bead Sterilizer, large, 300 g, 14x14.5x21.5 cm (5.5x5.7x8.7 in.)

ST5191 Steri-Lite Micro Bead Sterilizer, small, 150 g, 14x14.5x15.5 cm (5.5x5.7x6.1 in.)

ULTRASONIC CLEANERS

Ultrasonic baths are an excellent method for cleaning small batches of surgical instruments.

DIGITAL ULTRASONIC CLEANER



FEATURES

- Heats up to 65°C
- Tanks shape accommodates long instruments
- Compact size for benchtop use
- Quiet operation
- Viewing window
- Lightweight and portable

BENEFITS

- Simple operation with digital control panel
- Preset cleaning cycles for efficiency

APPLICATIONS

- Versatile enough for a variety of cleaning applications

The Ultrasonic Cleaner is a high efficiency cleaner specially developed to clean surgical instruments. The Ultrasonic Cleaner is a quick and effective way to clean lab tools. Ultrasonic waves pump micron-sized bubbles into the water. These bubbles fit into the tightest spaces that would be impossible to clean by traditional methods. When the bubbles implode, water hits the instrument at speeds up to 250 mph. A digital control panel simplifies operations. Cleaning cycles are preset and optimized for the most efficient cleaning of your surgical instruments.

Effective cleaning with the option of heat

The Ultrasonic Cleaner uses a powerful generator to create ultrasonic waves that provide effective cleaning action in most cases. When heavy biological debris or oily residue is present, the cleaning power can be enhanced with its heating feature that warms the water up to 65°C.

High-capacity elongated tank

The elongated tank easily accommodates long surgical instruments or other lab equipment that may not fit into smaller desktop ultrasonic cleaners.

Quiet operation*

The Ultrasonic Cleaner will work quietly without disrupting work in the laboratory. The tank has a lid to decrease the noise, and the viewing window allows you to monitor the progress.

Small footprint

This compact cleaner takes up little space for convenient storage on the bench. Its light weight makes it easy to transport.

* Warning: Ultrasonic sound waves emitted by this cleaner may disturb laboratory animals.

SPECIFICATIONS

VOLTAGE RATING & FREQUENCY	100-120V, 50/60 Hz
POWER CONSUMPTION	100-120V, 160 W
ULTRASONIC FREQUENCY	42,000 Hz
TANK MATERIAL	Stainless Steel
PLASTIC HOUSING MATERIAL	ABS
TANK SIZE	25x150x80 mm (9.9x5.9x3.2 in.)
TANK CAPACITY	2500 mL (5.29 pt.) (Max.) 2100 mL (4.44 pt.) (Min.) 600 mL (1.27 pt.)
ACCESSORIES	Plastic tray; power cord
5-CYCLE DIGITAL TIMER	10, 15, 20, 25 and 30 minute
NET WEIGHT	2.5 kg
WARRANTY	One year

504495

Digital Ultrasonic Cleaner (available only in USA and Canada)

WORLD PRECISION INSTRUMENTS

UK: +44 (0)1462 424700 • wpiuk@wpi-europe.com • www.wpi-europe.com
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QUANTREX ULTRASONIC CLEANING SYSTEM

CE

FEATURES

- 60 Minute timer
- Vinyl-clad steel and stainless steel
- 14 quality inspection steps for strength and durability

BENEFITS

- Provides super-strength cleaning every time
- When used with L&R's specialty formulated solutions, the self-contained, compact unit offers efficient trouble-free cleaning
- Each Quantrex machine comes standard with increased power—strength you can see as soon as you turn the unit on
- Stainless steel drain with multi-positional outlet for easy removal of solution

APPLICATIONS

- Versatile enough for a variety of cleaning applications

SPECIFICATIONS

DIMENSIONS	26.0 x 16.5 x 21.0 cm (10.25 x 6.5 x 8.25 in.)
SHIPPING WEIGHT	4.5 kg (10 lb.)
TANK CAPACITY	3.2 L (0.85 gal.)
INTERNAL DIMENSIONS	23.8 x 13.7 x 10.2 cm (9.4 x 5.4 x 4.0 in.)



504216

504216 Quantrex Ultrasonic Cleaning System
Includes Timer, Drain and Cover. Heater Optional.

UBATH ULTRASONIC CLEANER

FEATURES

- Half liter stainless steel tank
- Durable and compact

BENEFITS

- Robust all-metal construction allows for continuous duty

APPLICATIONS

- Microdissection and veterinary instrument cleaning

UBATH SPECIFICATIONS

INPUT POWER	22 W
PEAK OUTPUT	70 W, 55 kHz
TANK CAPACITY	0.53 L (18 oz.)
TANK I.D.	12.1 x 8.6 x 6.6 cm (4¾ x 3¾ x 2¾ in.)
TANK O.D.	13.7 x 10.5 x 12.1 cm (5¾ x 4¾ x 4¾ in.)
SHIPPING WEIGHT	1.8 kg (4 lb.)

CE



UBATH-Y

UBATH-Y Ultrasonic Cleaner (110 V)

UBATH-B Ultrasonic Cleaner (220 V, UK plug)

504766 Sterilization Mesh Cassette, 40x40x20 mm

504767 Sterilization Mesh Cassette, 80x80x34 mm

504768 Sterilization Mesh Cassette, 105x70x25 mm

INSTRUMENT CARE PRODUCTS

With proper care you can extend the life of your surgical instruments. The products in this category may safely be used to clean, disinfect, sterilize and maintain your fine surgical instruments.

RAPICIDE® OPA/28 HIGH-LEVEL DISINFECTANT

The superior way to reprocess heat-sensitive semi-critical devices that are unsuitable for sterilization.

- A 10-minute high-level disinfection time that's faster than all other OPA high-level disinfectants in the healthcare market today.
- Up to twice the reuse life of existing OPA's, lasts 28 days in comparison to 14 day use products.
- Because of the low vapor pressure, irritation to the eyes nose and throat are reduced when compared to glutaraldehyde. OPA/28 also effectively inactivates: TB, HIV2, MRSA, VRE, Hepatitis Viruses

504611 Rapicide Disinfectant (1 gal.)



BARRIER MILK INSTRUMENT PROTECTOR/LUBRICANT

Barrier Milk ready to use spray helps prevent corrosion of instruments when used prior to sterilization. Protects and extends the life of instruments during autoclaving. Simply spray the instrument directly before autoclaving with the unique water-based blend of lubricants and corrosion inhibitors.

The fine mist works its way into hinges and box locks as well as covering all instruments with protection

- Nitrate-free
- Chromate-free
- Phenolic-free
- Non-Irritating
- Neutral pH
- Mild, pleasant odor

504215 Barrier Milk Spray (8 oz.)



CIDEX OPA

- Excellent biocide for WPI's nitric oxide sensors and other sensitive instruments which cannot be subjected to alcohol or autoclave.
- CIDEX OPA Solution, a 0.55% ortho-phthalaldehyde solution, is glutaraldehyde-free and effective at room temperature (68°F). Test strips are available to test the MEC of the solutions. Non-corrosive to instruments.

7364-4 Cidex OPA (1 gal.)



WORLD PRECISION INSTRUMENTS

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ALCONOX POWDERED PRECISION CLEANER

Alconox can be used as a paste, a soak and ultrasonically. It can be used on glass, metal, stainless steel, porcelain, ceramic, plastic, rubber and fiberglass. It can also be used on soft metals such as copper aluminum, zinc and magnesium if rinsed promptly.

Alconox can be used to remove: soil, grit, grime, buffing compound, slime, grease, blood, tissue, oils, salts, deposits, particulates, solvents, chemicals, radioisotopes, radioactive contaminants, silicone oils, and mold release agents.

- Leaves no interfering residues on reusable labware
- Use with manual cleaning or ultrasonic cleaners
- Free rinsing
- Corrosion inhibited

13740 Alconox Powdered Cleaner (4 lbs.)



ENZOL ENZYMATIC DETERGENT

ENZOL Detergent is a mild pH, enzyme-based, presoak-plus-cleaner for removing tough, dried-on or hard-to-reach organic matter from instruments before they are disinfected in CIDEX Solution.

- Effective at room temperature (no need for hot water)
- Safe for instruments, including delicate endoscopes
- Mild pH reduces the likelihood of corrosion
- Easy to rinse, so it won't clog scopes or leave a residue on instruments
- Low foaming, making it effective for use in automated equipment

7363-4 Enzol Enzymatic Detergent (1 gal.)



ENDOZIME ENZYMATIC DETERGENT

FEATURES

- Advanced Proteolytic Action - Increased protein enzyme activity
- Proprietary blend of enzymes designed to remove all bio-burden — blood, carbohydrates, protein, polysaccharides, fats, starches, oils, uric acid and other nitrogenous compounds
- Biologically active additives speed the process of liquefaction and solubilization

BENEFITS

- Inhibits rust
- Safe for use on all surgical instruments and scopes. It will not harm any metals, plastic, rubber or corrugated tubing.
- Low-sudsing, neutral pH, non-abrasive, free rinsing and 100% biodegradable

APPLICATIONS

- Endozime is specifically designed for use in all washers, washer sterilizers, ultrasonic cleaners and manual cleaning protocols.

Endozime AW® designed for customers who are susceptible to allergic reactions when using a cleaning chemicals containing dye. It contains a proprietary formulation of protease, amylase, lipase, carbohydrase and enzymes with A.P.A. (Advanced Proteolytic Action), which removes all soil and inhibits rust. Endozime AW® increases protein enzyme activity to provide a faster more thorough penetration into hard to reach places on surgical instruments and scopes.

WP-34521 16.9 oz.



SURGI-STAIN RUST AND STAIN REMOVER

FEATURES

- A 10-minute soak keeps instruments looking new
- Mild acidic solution removes rust, stains, spotting and corrosion
- Routine use of Surgi-Stain® will enhance the life and efficiency of stainless steel instruments

BENEFITS

- Restores instruments' original finish
- Non-corrosive and will not harm stainless steel
- Save money by restoring instruments instead of replacing or repairing them
- Restores articulation to box-locks and joints
- Prevents destructive pitting on ridges of micro and ophthalmic instruments

APPLICATIONS

- Surgi-Stain® is a quick, safe and efficient revitalizing solution that removes rust, pitting, stains and corrosion from stainless steel surgical instruments.

For more than 20 years, hospitals worldwide have saved hundreds of thousands of dollars by using Surgi-Stain® to restore instruments. Used routinely as part of the Ruhof System, Surgi-Stain® will help maintain the life and efficiency of your instruments and reduce repair and replacements costs. If used on a monthly basis in conjunction with our enzymatic cleaners Surgi-Stain® will restore the instruments' original finish and loosen box-locks and joints. It is an excellent choice for use on all ophthalmic and microsurgical instruments.

WP-34572 16 oz. Bottle



SURGICAL INSTRUMENT LUBRICANT

Protect your surgical and dissecting instruments with this specially formulated lubricant.

500126 Spray Lube (8 oz.)



PREMIX-SLIP INSTRUMENT LUBRICANT AND RUST INHIBITOR

FEATURES

- High-grade mineral oil lubricant and rust inhibitor
- Steam penetrable, steam sterilizable and ETO sterilizable
- Non-oily, non-sticky, non-toxic and silicone free.
- 16 oz. spray bottle

BENEFITS

- Prevents rust, spots, stains and corrosion, prolonging the life of the instrument
- Prevents damage due to misuse of stiff or grinding instruments
- Routine use enhances the life and efficiency of instruments
- Greatly reduces repair and replacement cost

APPLICATIONS

- Lubricate and inhibit rust on all your surgical instruments
- 16 oz. spray bottle

Premix-Slip® is a non-sticky, non-toxic, silicone-free and water soluble mineral oil lubricant that can withstand the high temperatures of autoclaving without becoming gummy. Forming a protective barrier on surgical instruments, Premix-Slip® prevents rusting, staining and spotting while restoring articulation to sticky box-locks and joints.

WP-34552 16 oz



WORLD PRECISION INSTRUMENTS

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STERILIZATION BASKETS & TRAYS

INTRODUCTION

WPI offers a comprehensive range of surgical instrument baskets and trays. Our instrument trays and baskets provide a high degree of protection for costly surgical instruments during storage, transportation and sterilization. Trays are available in a variety of sizes and designs that accommodate a wide range of surgical instruments.

We are backed by ISO 9001-2008, ISO 13485, 2003 Certification, CE & FDA. Our baskets are made from high quality stainless steel, providing both strength and durability at an affordable price. They are designed with rounded corners and edges to avoid two common problems:

- Burr-free rounded corners prevent wraps from being torn by sharp edges
- Smooth edges reduce user injury

EXCEPTIONALLY ROBUST AND RESISTANT TO ACCIDENTAL DAMAGE

We present a comprehensive range of surgical instrument sterilizing baskets including:

- Side Perforated Baskets
- Wire Mesh Baskets
- Fine Mesh Baskets
- Endoscopy Baskets
- Customized baskets for holding scopes

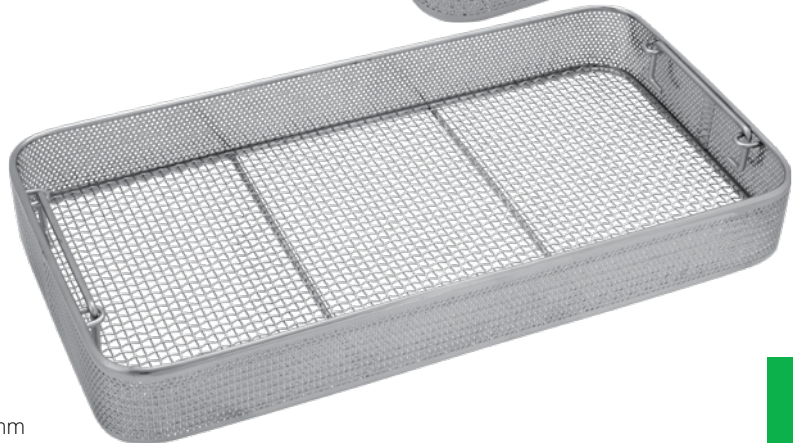
We guarantee all products against poor craftsmanship and material. Any item found defective will be repaired or replaced free of charge. This guarantee does not cover any product which becomes defective through misuse, negligence or mishandling.



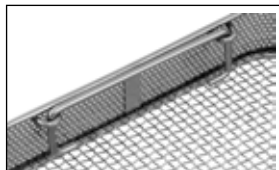
SIDE PERFORATED BASKETS WITH WIRE BASE

The wire base is designed for quickly drying instruments after washing and sterilizing. They are perfect for handling and storage of instruments.

- Manufactured with stainless steel 304, non-magnetic
- Electropolished
- Burr free to protect wraps and prevent injury
- Smooth rounded corners
- Side walls are perforated to protect sharp instrument edges and tips from damage. The hole size is 2.0 mm.
- Meets all the requirements of automatic washing and sterilization for all types of instruments
- Separate lids are available with single frame, double frame and detention shapes
- Available with drop in and folding handles
- Top and bottom frame diameter: 5.0 mm
- Base available in wire mesh with opening squares of 4.2 mm and wire diameter of 1.0 mm
- The images show the smooth round corners (left below) and the inner mounted drop in handles (right below)



Rounded corners



Drop in Handles mounted on the inside

WP-4610	240X120X30 mm	WP-4617	240X250X100 mm	WP-4620	480X250X70 mm	WP-4623	300x300x60 mm
WP-4611	240X120X50 mm	WP-4656	405X250X30 mm	WP-4621	480X250X100 mm	WP-4624	470x400x60 mm
WP-4612	240X120X60 mm	WP-4657	405X250X50 mm	WP-4661	540X250X30 mm	WP-4625	480x480x50 mm
WP-4608	240X120X70 mm	WP-4658	405X250X60 mm	WP-4662	540X250X50 mm	WP-4626	480x480x60 mm
WP-4609	240X120X100 mm	WP-4659	405X250X70 mm	WP-4663	540X250X60 mm	WP-4628	500x300x50 mm
WP-4607	240X250X30 mm	WP-4660	405X250X100 mm	WP-4664	540X250X70 mm	WP-4632	550x430x50 mm
WP-4613	240X250X50 mm	WP-4606	480X250X30 mm	WP-4665	540X250X100 mm	WP-4634	600x300x60 mm
WP-4615	240X250X60 mm	WP-4618	480X250X50 mm	WP-4622	300x300x50 mm		
WP-4616	240X250X70 mm	WP-4619	480X250X60 mm				

Many more sizes available on request. Minimum buy on special orders - 10 pieces.

LIDS FOR PERFORATED BASKETS WITH WIRE BASE (SINGLE FRAME)

WP-4635	240X120 mm
WP-4636	240X250 mm
WP-4642	405x250 mm
WP-4637	480X250 mm
WP-4643	540x250 mm
WP-4638	300X300 mm
WP-4639	480X480 mm
WP-4640	500X300 mm
WP-4641	600X300 mm

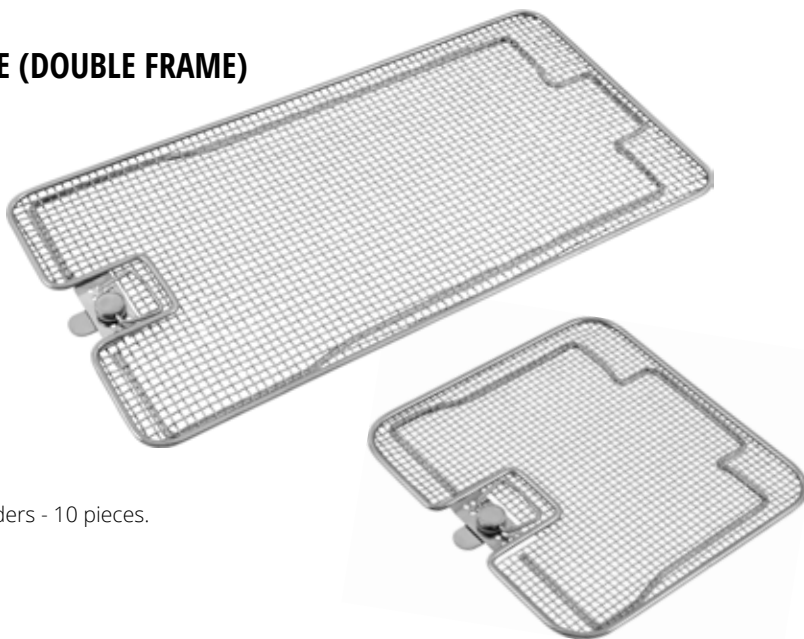
Many more sizes available on request. Minimum buy on special orders - 10 pieces.



LIDS FOR PERFORATED BASKETS WITH WIRE BASE (DOUBLE FRAME)

WP-4635D	240X120 mm
WP-4636D	240X250 mm
WP-4642D	405x250 mm
WP-4637D	480X250 mm
WP-4643D	540x250 mm
WP-4638D	300X300 mm
WP-4639D	480X480 mm
WP-4640D	500X300 mm
WP-4641D	600X300 mm

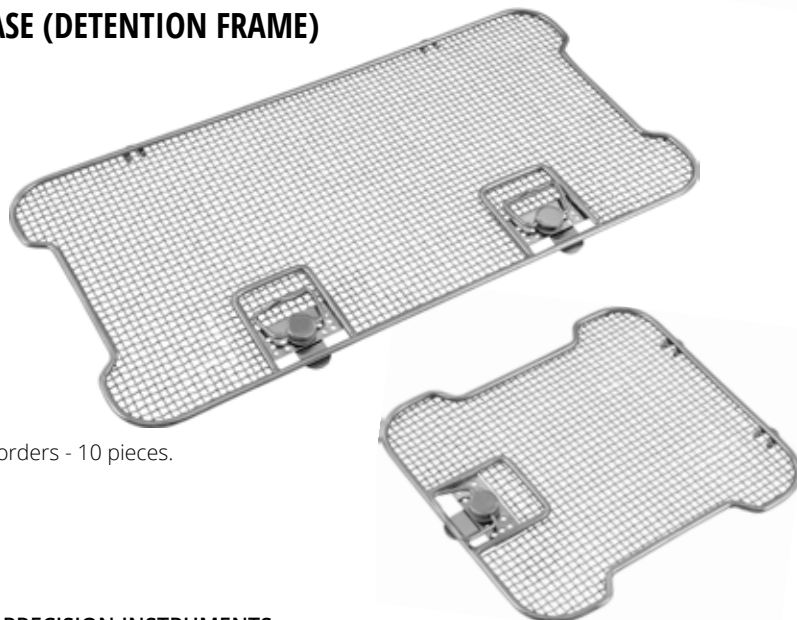
Many more sizes available on request. Minimum buy on special orders - 10 pieces.



LIDS FOR PERFORATED BASKETS WITH WIRE BASE (DETENTION FRAME)

WP-4635DT	240X120 mm
WP-4636DT	240X250 mm
WP-4642DT	405x250 mm
WP-4637DT	480X250 mm
WP-4643DT	540x250 mm
WP-4638DT	300X300 mm
WP-4639DT	480X480 mm
WP-4640DT	500X300 mm
WP-4641DT	600X300 mm

Many more sizes available on request. Minimum buy on special orders - 10 pieces.



WORLD PRECISION INSTRUMENTS

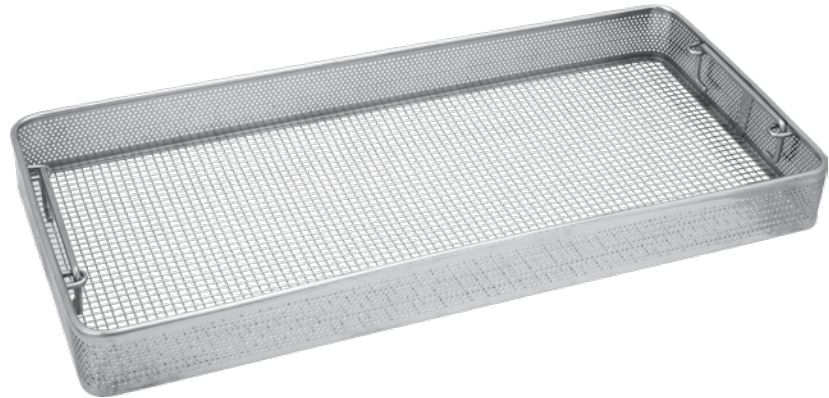
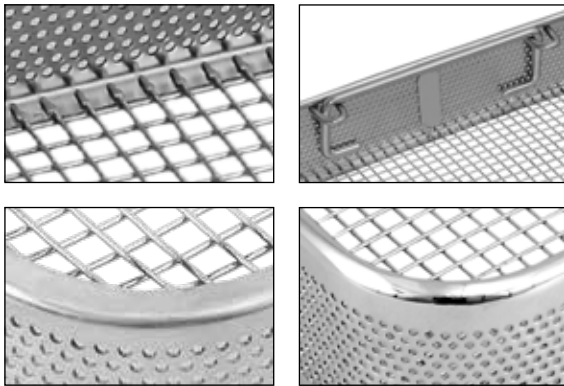
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SIDE PERFORATED BASKETS WITH FLAT BASE

The flat base is designed for quick drying of the instruments after washing and sterilizing. These baskets are also used for handling and storage of instruments.

- Manufactured with stainless steel 304
- Electropolished
- Burr free to protect wraps and prevent injury
- Smooth rounded corners
- Double frame lids available
- Side walls are perforated to protect sharp instrument edges and tips from damage. The hole size is 2.0 mm.
- Meets all the requirements of automatic washing and sterilization for all types of instruments
- Separate lids are available with single frame, double frame and detention shapes
- Available with drop in and folding handles
- Top and bottom frame diameter: 5.0 mm
- Flat base basket available in welded mesh with opening square 6.0 mm, wire diameter 1.2 mm.
- Stacking frame can also be available on request.
- The images show the flat base from the inside (upper left), the inner mounted drop handles (upper right), the flat base from the outside (lower left) and the smooth rounded corners (lower right).

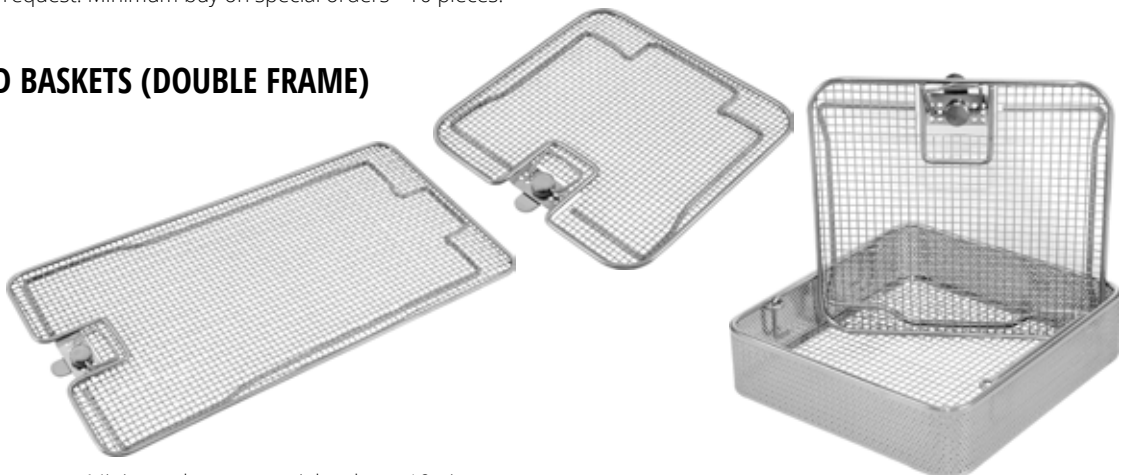


WP-4545 120X250x50 mm	WP-4552 240x250x100 mm	WP-4559 480x250x70 mm	WP-4566 480X360x60 mm
WP-4546 120X250x60 mm	WP-4553 405X250x50 mm	WP-4560 480x250x100 mm	WP-4567 480X360x70 mm
WP-4547 120X250x70 mm	WP-4554 405X250x60 mm	WP-4561 540X250x50 mm	WP-4568 480X360x100 mm
WP-4548 120X250x100 mm	WP-4555 405X250x70 mm	WP-4562 540X250x60 mm	WP-4569 480x480x50 mm
WP-4549 240x250x50 mm	WP-4556 405X250x100 mm	WP-4563 540X250x70 mm	WP-4570 480x480x60 mm
WP-4550 240x250x60 mm	WP-4557 480x250x50 mm	WP-4564 540X250x100 mm	WP-4571 480x480x70 mm
WP-4551 240x250x70 mm	WP-4558 480x250x60 mm	WP-4565 480X360x50 mm	WP-4572 480x480x100 mm

Many more sizes available on request. Minimum buy on special orders - 10 pieces.

LIDS FOR PERFORATED BASKETS (DOUBLE FRAME)

WP-4582 120X250 mm
WP-4583 240X250 mm
WP-4584 405X250 mm
WP-4585 480X250 mm
WP-4586 540X250 mm
WP-4587 480X360 mm
WP-4588 480X480 mm

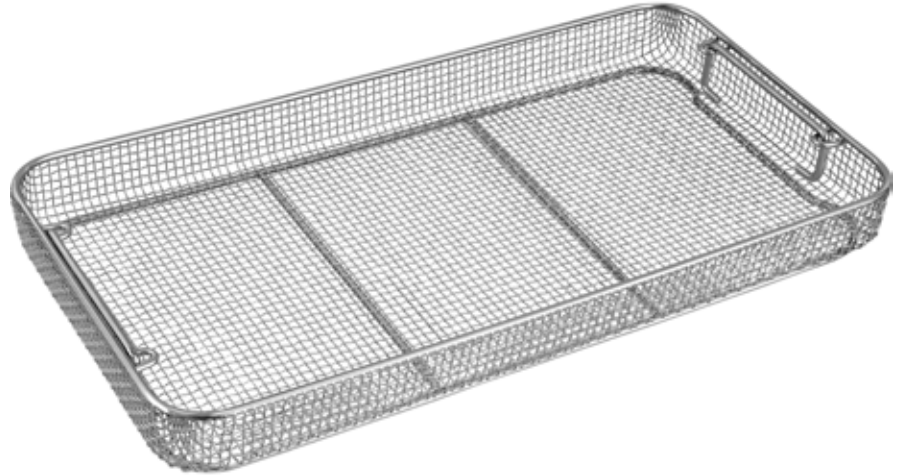
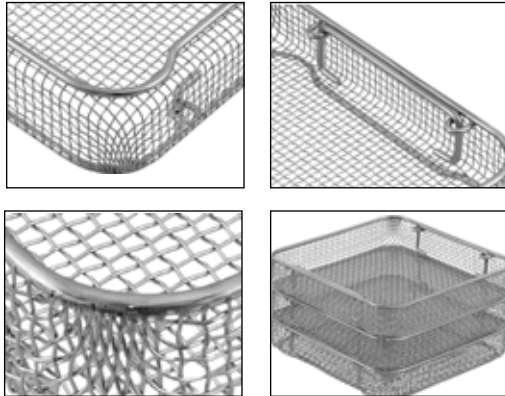
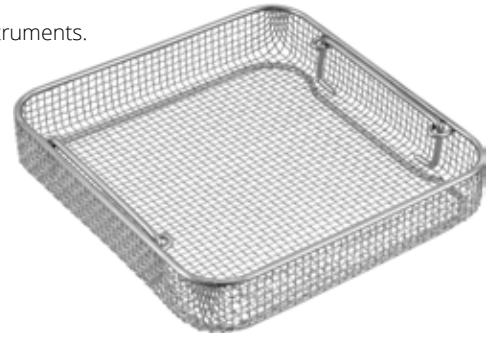


Many more sizes available on request. Minimum buy on special orders - 10 pieces.

WIRE MESH BASKETS WITH DROP IN HANDLES

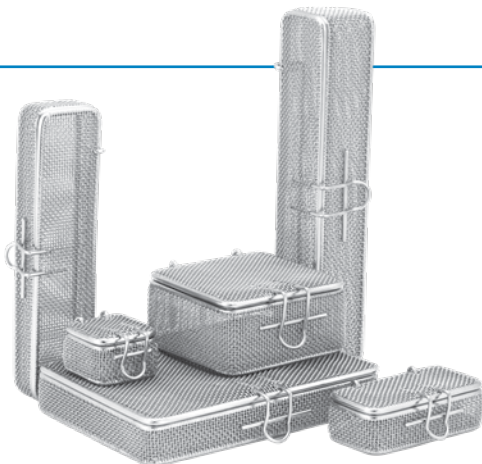
Wire Mesh Baskets are used for washing, disinfecting, sterilizing, storing and handling surgical instruments.

- Manufactured with stainless steel 304
- Electropolished
- Burr free to protect wraps and prevent injury
- Smooth rounded corners
- Handles are mounted on the inside and drop inside the basket for stacking
- Single frame, double frame and detention frame lids available
- Meets all the requirements of automatic washing and sterilization for all types of instruments
- Top and bottom frame diameter: 5.0 mm
- Wire mesh with mesh openings of 4.5 mm, wire diameter of 1.0 mm
- Baskets are stackable



WP-4401	105X240X30 mm	WP-4413	240X250X60 mm	WP-4425	405X250X100 mm	WP-4437	480X480X50 mm
WP-4402	105X240X50 mm	WP-4414	240X250X70 mm	WP-4426	480X240X30 mm	WP-4438	480X480X60 mm
WP-4403	105X240X60 mm	WP-4415	240X250X100 mm	WP-4427	480X240X50 mm	WP-4439	480X480X70 mm
WP-4404	105X240X70 mm	WP-4416	250X250X30 mm	WP-4428	480X240X60 mm	WP-4440	480X480X100 mm
WP-4405	105X240X100 mm	WP-4417	250X250X50 mm	WP-4429	480X240X70 mm	WP-4441	540X250X30 mm
WP-4406	240X240X30 mm	WP-4418	250X250X60 mm	WP-4430	480X240X100 mm	WP-4442	540X250X50 mm
WP-4407	240X240X50 mm	WP-4419	250X250X70 mm	WP-4431	480X250X30 mm	WP-4443	540X250X60 mm
WP-4408	240X240X60 mm	WP-4420	250X250X100 mm	WP-4432	480X250X50 mm	WP-4444	540X250X70 mm
WP-4409	240X240X70 mm	WP-4421	405X250X30 mm	WP-4433	480X250X60 mm	WP-4445	540X250X100 mm
WP-4410	240X240X100 mm	WP-4422	405X250X50 mm	WP-4434	480X250X70 mm		
WP-4411	240X250X30 mm	WP-4423	405X250X60 mm	WP-4435	480X250X100 mm		
WP-4412	240X250X50 mm	WP-4424	405X250X70 mm	WP-4436	480X480X30 mm		

Many more sizes available on request. Minimum buy on special orders - 10 pieces.



**FOR FINE MESH BASKETS WITH LIDS,
SEE PAGE 181.**

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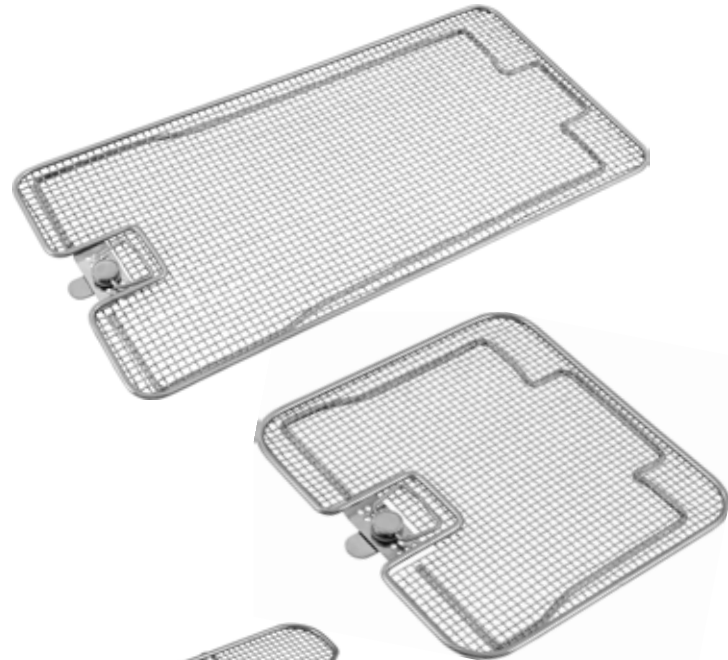
LIDS FOR WIRE MESH BASKETS (SINGLE FRAME)

WP-4455	105X240 mm
WP-4456	240X240 mm
WP-4457	240X250 mm
WP-4458	250X250 mm
WP-4459	405X250 mm
WP-4460	480X240 mm
WP-4461	480X250 mm
WP-4462	480X480 mm
WP-4463	540X250 mm



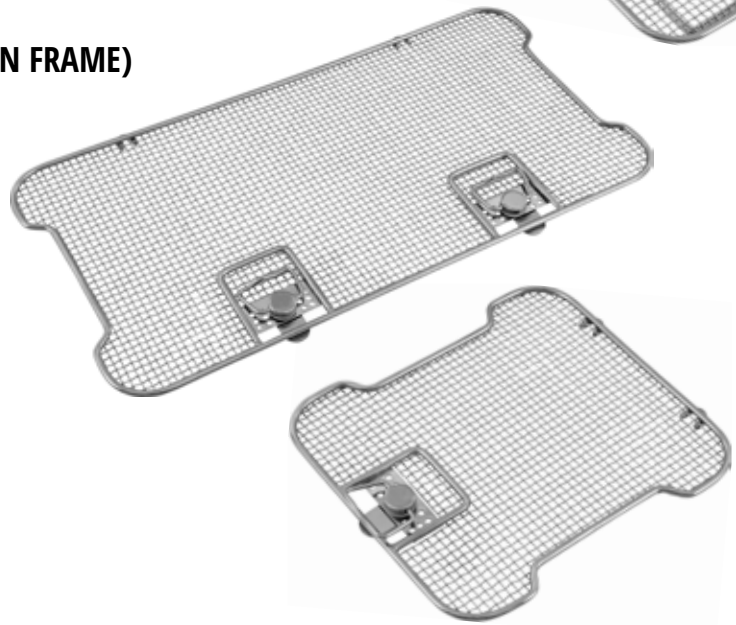
LIDS FOR WIRE MESH BASKETS (DOUBLE FRAME)

WP-4455D	105X240 mm
WP-4456D	240X240 mm
WP-4457D	240X250 mm
WP-4458D	250X250 mm
WP-4459D	405X250 mm
WP-4460D	480X240 mm
WP-4461D	480X250 mm
WP-4462D	480X480 mm
WP-4463D	540X250 mm



LIDS FOR WIRE MESH BASKETS (DETENTION FRAME)

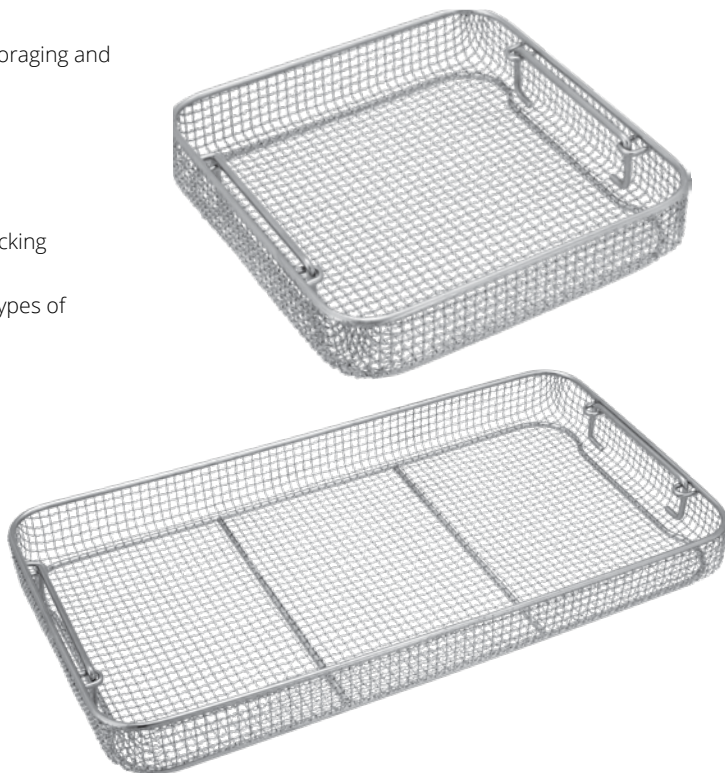
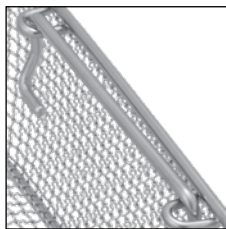
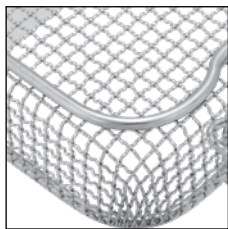
WP-4455DT	105X240 mm
WP-4456DT	240X240 mm
WP-4457DT	240X250 mm
WP-4458DT	250X250 mm
WP-4459DT	405X250 mm
WP-4460DT	480X240 mm
WP-4461DT	480X250 mm
WP-4462DT	480X480 mm
WP-4463DT	540X250 mm



CRIMPED WIRE MESH BASKETS WITH TILT HANDLES

Crimped Wire Mesh Baskets are used for washing, disinfecting, sterilizing, storing and handling surgical instruments.

- Manufactured with stainless steel 304
- Electropolished
- Burr free to protect wraps and prevent injury
- Smooth rounded corners
- Tilt handles are mounted on the inside and drop inside the basket for stacking
- Single frame, double frame and detention frame lids available
- Meets all the requirements of automatic washing and sterilization for all types of instruments
- Top and bottom frame diameter: 5.0 mm
- Crimped mesh with mesh openings of 5 mm, wire diameter of 0.9 mm
- Baskets are stackable



WP-4401CW 105X240X30 mm	WP-4413CW 240X250X60 mm	WP-4425CW 405X250X100 mm	WP-4437CW 480X480X50 mm
WP-4402CW 105X240X50 mm	WP-4414CW 240X250X70 mm	WP-4426CW 480X240X30 mm	WP-4438CW 480X480X60 mm
WP-4403CW 105X240X60 mm	WP-4415CW 240X250X100 mm	WP-4427CW 480X240X50 mm	WP-4439CW 480X480X70 mm
WP-4404CW 105X240X70 mm	WP-4416CW 250X250X30 mm	WP-4428CW 480X240X60 mm	WP-4440CW 480X480X100 mm
WP-4405CW 105X240X100 mm	WP-4417CW 250X250X50 mm	WP-4429CW 480X240X70 mm	WP-4441CW 540X250X30 mm
WP-4406CW 240X240X30 mm	WP-4418CW 250X250X60 mm	WP-4430CW 480X240X100 mm	WP-4442CW 540X250X50 mm
WP-4407CW 240X240X50 mm	WP-4419CW 250X250X70 mm	WP-4431CW 480X250X30 mm	WP-4443CW 540X250X60 mm
WP-4408CW 240X240X60 mm	WP-4420CW 250X250X100 mm	WP-4432CW 480X250X50 mm	WP-4444CW 540X250X70 mm
WP-4409CW 240X240X70 mm	WP-4421CW 405X250X30 mm	WP-4433CW 480X250X60 mm	WP-4445CW 540X250X100 mm
WP-4410CW 240X240X100 mm	WP-4422CW 405X250X50 mm	WP-4434CW 480X250X70 mm	
WP-4411CW 240X250X30 mm	WP-4423CW 405X250X60 mm	WP-4435CW 480X250X100 mm	
WP-4412CW 240X250X50 mm	WP-4424CW 405X250X70 mm	WP-4436CW 480X480X30 mm	

Many more sizes available on request. Minimum buy on special orders - 10 pieces.



THIS BENCHTOP AUTOCLAVE IS PERFECT FOR QUICK STERILIZATION OF SMALL PACKAGES.

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LIDS FOR CRIMPED WIRE MESH BASKETS (SINGLE FRAME)

- WP-4455CW** 105X240 mm
- WP-4456CW** 240X240 mm
- WP-4457CW** 240X250 mm
- WP-4458CW** 250X250 mm
- WP-4459CW** 405X250 mm
- WP-4460CW** 480X240 mm
- WP-4461CW** 480X250 mm
- WP-4462CW** 480X480 mm
- WP-4463CW** 540X250 mm

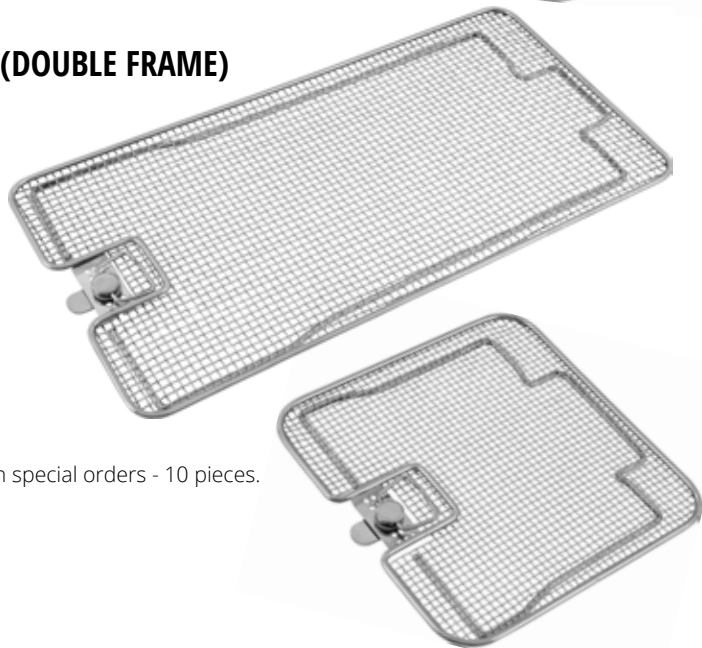
Many more sizes available on request. Minimum buy on special orders - 10 pieces.



LID FOR CRIMPED WIRE MESH BASKETS (DOUBLE FRAME)

- WP-4455DCW** 105X240 mm
- WP-4456DCW** 240X240 mm
- WP-4457DCW** 240X250 mm
- WP-4458DCW** 250X250 mm
- WP-4459DCW** 405X250 mm
- WP-4460DCW** 480X240 mm
- WP-4461DCW** 480X250 mm
- WP-4462DCW** 480X480 mm
- WP-4463DCW** 540X250 mm

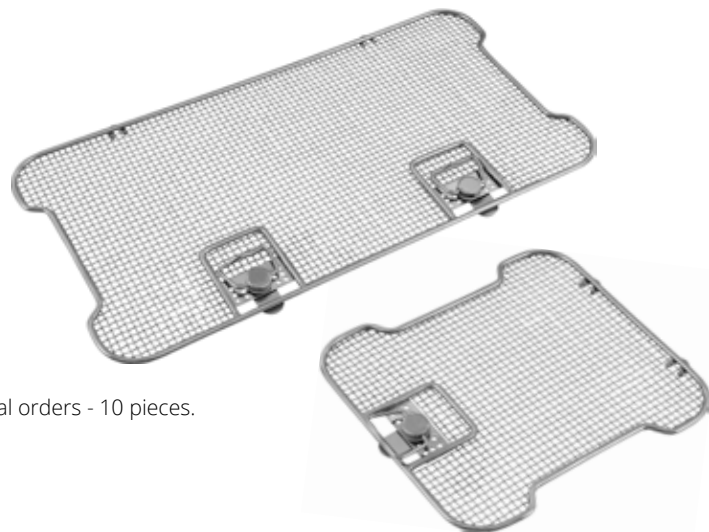
Many more sizes available on request. Minimum buy on special orders - 10 pieces.



LIDS FOR CRIMPED WIRE MESH BASKETS (DETENTION FRAME)

- WP-4455DTCW** 105X240 mm
- WP-4456DTCW** 240X240 mm
- WP-4457DTCW** 240X250 mm
- WP-4458DTCW** 250X250 mm
- WP-4459DTCW** 405X250 mm
- WP-4460DTCW** 480X240 mm
- WP-4461DTCW** 480X250 mm
- WP-4462DTCW** 480X480 mm
- WP-4463DTCW** 540X250 mm

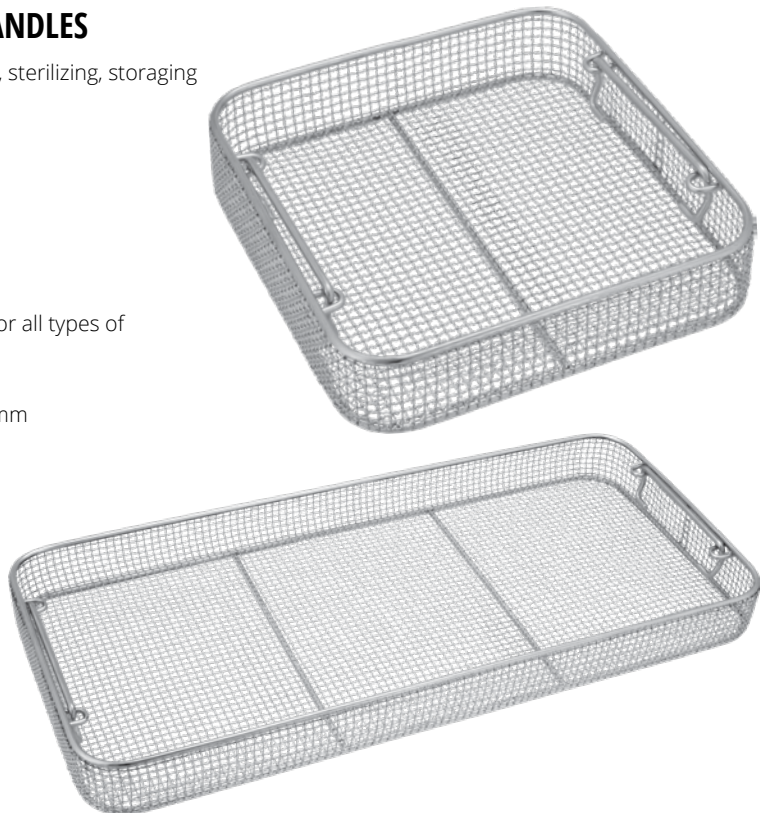
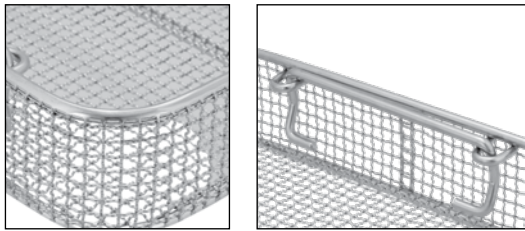
Many more sizes available on request. Minimum buy on special orders - 10 pieces.



CLASSIC CRIMPED WIRE MESH BASKETS, TILTED HANDLES

Classic Crimped Wire Mesh Baskets are used for washing, disinfecting, sterilizing, storing and handling surgical instruments.

- Manufactured with stainless steel 304
- Electropolished
- Burr free to protect wraps and prevent injury
- Smooth rounded corners
- Tilt handles
- Single frame, double frame and detention frame lids available
- Meets all the requirements of automatic washing and sterilization for all types of instruments
- Top and bottom frame diameter: 5.0 mm
- Crimped mesh with mesh openings of 6 mm, wire diameter of 1.0 mm
- Smooth corners and tilt handles



WP-4401ER	105X240X30 mm	WP-4413ER	240X250X60 mm	WP-4425ER	405X250X100 mm	WP-4437ER	480X480X50 mm
WP-4402ER	105X240X50 mm	WP-4414ER	240X250X70 mm	WP-4426ER	480X240X30 mm	WP-4438ER	480X480X60 mm
WP-4403ER	105X240X60 mm	WP-4415ER	240X250X100 mm	WP-4427ER	480X240X50 mm	WP-4439ER	480X480X70 mm
WP-4404ER	105X240X70 mm	WP-4416ER	250X250X30 mm	WP-4428ER	480X240X60 mm	WP-4440ER	480X480X100 mm
WP-4405ER	105X240X100 mm	WP-4417ER	250X250X50 mm	WP-4429ER	480X240X70 mm	WP-4441ER	540X250X30 mm
WP-4406ER	240X240X30 mm	WP-4418ER	250X250X60 mm	WP-4430ER	480X240X100 mm	WP-4442ER	540X250X50 mm
WP-4407ER	240X240X50 mm	WP-4419ER	250X250X70 mm	WP-4431ER	480X250X30 mm	WP-4443ER	540X250X60 mm
WP-4408ER	240X240X60 mm	WP-4420ER	250X250X100 mm	WP-4432ER	480X250X50 mm	WP-4444ER	540X250X70 mm
WP-4409ER	240X240X70 mm	WP-4421ER	405X250X30 mm	WP-4433ER	480X250X60 mm	WP-4445ER	540X250X100 mm
WP-4410ER	240X240X100 mm	WP-4422ER	405X250X50 mm	WP-4434ER	480X250X70 mm		
WP-4411ER	240X250X30 mm	WP-4423ER	405X250X60 mm	WP-4435ER	480X250X100 mm		
WP-4412ER	240X250X50 mm	WP-4424ER	405X250X70 mm	WP-4436ER	480X480X30 mm		

Many more sizes available on request. Minimum buy on special orders - 10 pieces.



Many sterilization baskets are available in a variety of other sizes. If you do not see exactly what you need, give us a call. If you order at least 10 units, we will place a custom order just for you.

Call (866) 606-1974

Toll free in the USA

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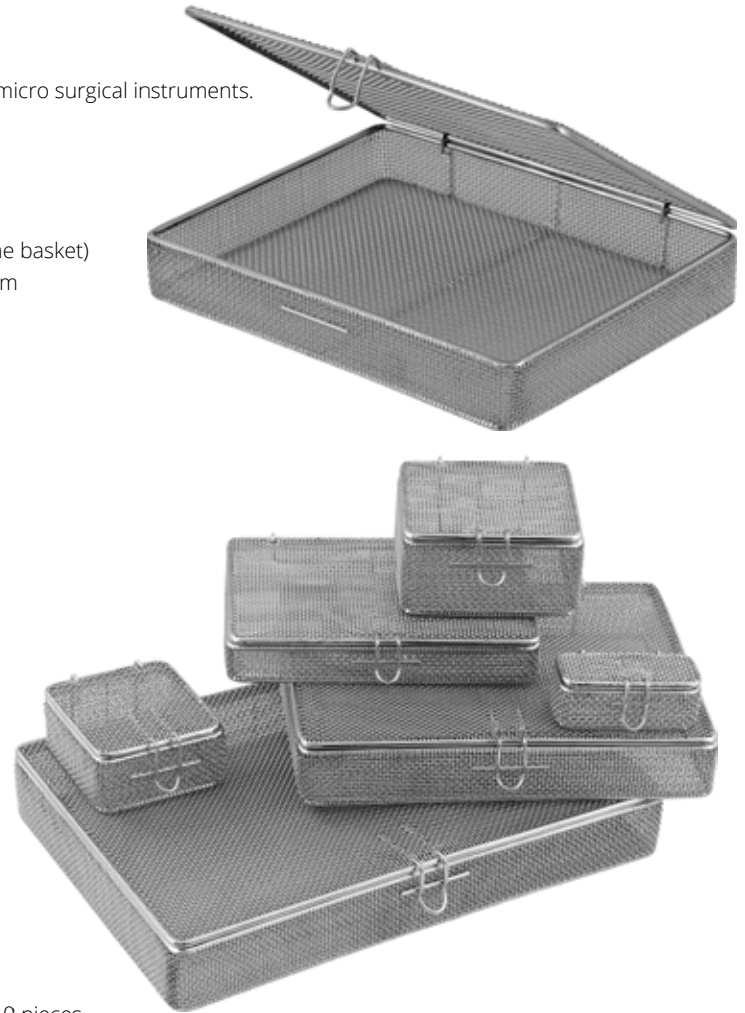
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FINE MESH BASKETS WITH LIDS

Fine Mesh Baskets With Lids are used for washing, sterilizing and storing micro surgical instruments.

- Manufactured with stainless steel 304
- Electropolished
- Burr free to protect wraps and prevent injury
- Smooth rounded corners
- Top and lid frame wire diameter: 3.5 mm and 4.0 mm (depending on the basket)
- Fine mesh with opening squares of 1.6 mm and wire diameter of 0.7 mm
- Wire locking clip

WP-4343	40x40x20 mm	WP-4358	220x140x50 mm
WP-4344	70x70x30 mm	WP-4359	210x170x20 mm
WP-4345	80x40x20 mm	WP-4360	235x155x40 mm
WP-4346	80x40x30 mm	WP-4361	240x90x40 mm
WP-4347	80x80x34 mm	WP-4362	240x120x35 mm
WP-4348	80x80x40 mm	WP-4363	275x175x35 mm
WP-4349	90x90x50 mm	WP-4364	280x170x60 mm
WP-4350	150x110x20 mm	WP-4365	250x200x20 mm
WP-4351	160x40x20 mm	WP-4366	300x180x20 mm
WP-4352	105x70x25 mm	WP-4367	200x110x40 mm
WP-4353	141x50x40 mm	WP-4368	225x110x50 mm
WP-4354	150x50x35 mm	WP-4369	235x120x60 mm
WP-4355	180x130x20 mm	WP-4370	270x135x40 mm
WP-4356	190x85x100 mm	WP-4371	280x145x50 mm
WP-4357	200x100x35 mm	WP-4372	400x250x50 mm



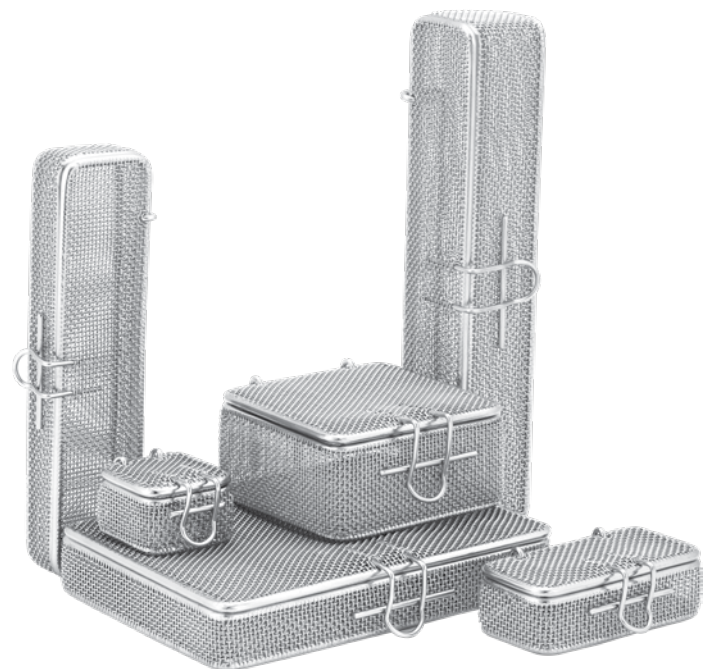
Many more sizes available on request. Minimum buy on special orders - 10 pieces.

MICRO FINE MESH BASKETS WITH LIDS

Micro Fine Baskets are used for washing, sterilizing and storing delicate micro surgical instruments and parts.

- Manufactured with stainless steel 304
- Electrolyte polished
- Top and lid frame wire diameter: 3.5 mm
- Micro fine mesh with opening squares of 1.0 mm and wire diameter of 0.5 mm
- Wire locking clip

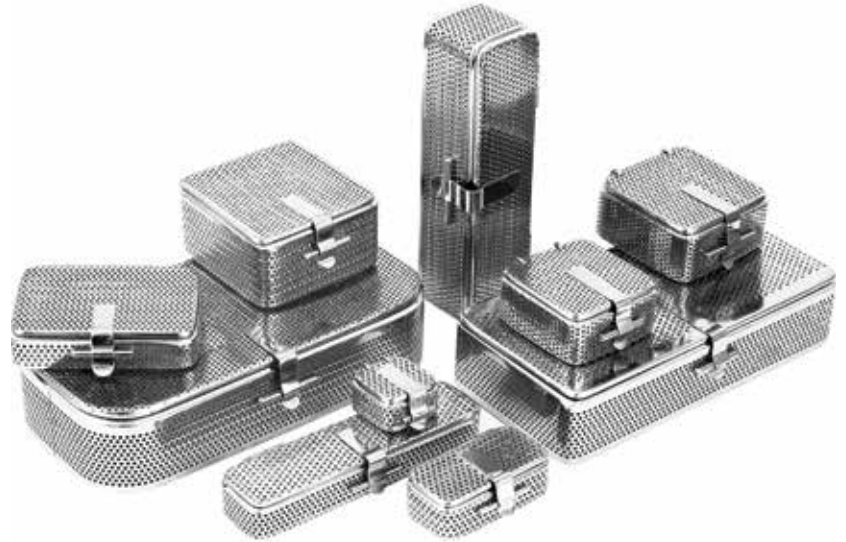
WP-4343MM	40x40x20 mm	WP-4350MM	150x110x20 mm
WP-4344MM	70x70x30 mm	WP-4351MM	160x40x20 mm
WP-4345MM	80x40x20 mm	WP-4352MM	105x70x25 mm
WP-4346MM	80x40x30 mm	WP-4353MM	141x50x40 mm
WP-4347MM	80x80x34 mm	WP-4354MM	150x50x35 mm
WP-4348MM	80x80x40 mm	WP-4355MM	180x130x20 mm
WP-4349MM	90x90x50 mm		



FULL PERFORATED TRAYS WITH LIDS

Micro Fine Baskets are used for washing, sterilizing and storing delicate micro surgical instruments and parts.

- Manufactured with stainless steel 304
- Electropolished
- Smooth rounded corners
- Perforated hole size of 2.0 mm
- Hinged lids
- Top and lid frame rod diameter: 3.5 mm and 4.0 mm (depending on the basket)
- Full wall perforation to protect sharp instruments' edges and tips from damage
- Fine mesh with opening squares of 1.6 mm and wire diameter of 0.7 mm
- Sheet locking clip



WP-2343 40x40x20 mm

WP-2348 80x80x40 mm

WP-2353 141x50x40 mm

WP-2358 200x110x40 mm

WP-2344 70x70x30 mm

WP-2349 90x90x50 mm

WP-2354 150x50x35 mm

WP-2359 225x110x50 mm

WP-2345 80x40x20 mm

WP-2350 150x110x20 mm

WP-2355 190x85x35 mm

WP-2346 80x40x30 mm

WP-2351 160x40x20 mm

WP-2356 200x100x35 mm

WP-2347 80x80x34 mm

WP-2352 105x70x25 mm

WP-2357 240x90x40 mm

ENDOSCOPE STERILIZATION TRAY WITH LENS BASKET

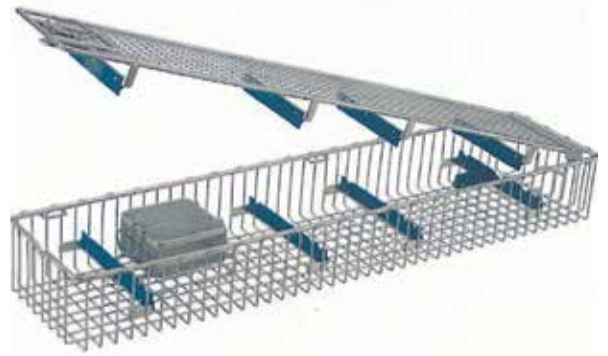
Endoscope Baskets provide security for costly endoscopes during washing and sterilization processes. The silicone padding also provides protection for the endoscope during handling and storage.



Small Lens Baskets



Locking Clip



WP-4046 640x150x77 mm

ARTHROSCOPE BASKETS



WP-4040



WP-4041

WP-4042

WP-4040 180x80x52 mm

WP-4041 290x80x52 mm

WP-4042 290x80x52 mm

WORLD PRECISION INSTRUMENTS

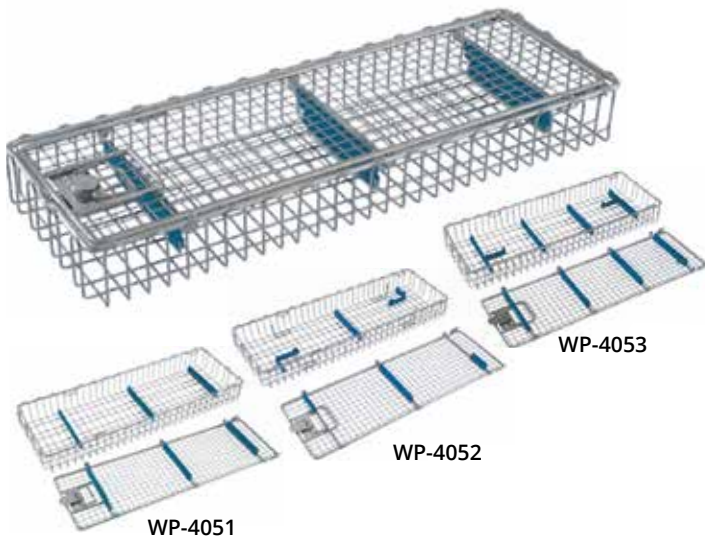
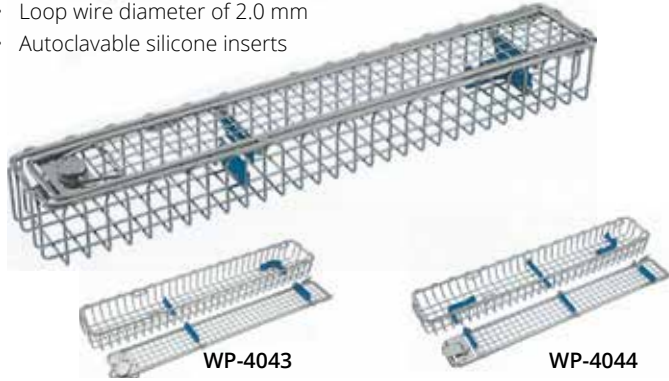
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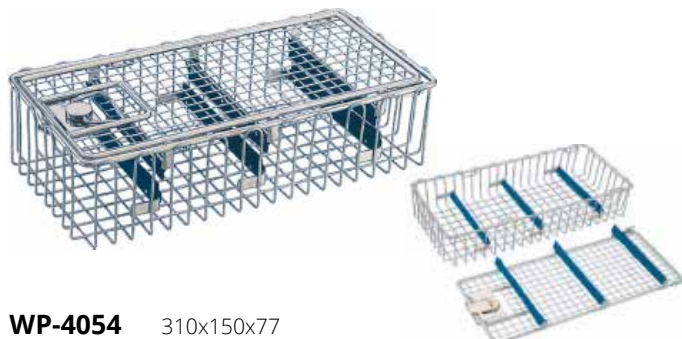
ENDOSCOPE BASKETS

Endoscope Baskets provide security for costly endoscopes during washing and sterilization processes. The silicone padding also provide protection for the endoscope during handling and storage.

- Safely sterilize and store expensive endoscopes
- Silicone pads to protect endoscope during handling and storage
- Electropolished
- Burr free to prevent injury
- Locking clip
- Variety of sizes
- Top lid and frame wire diameter of 5.0 mm
- Loop wire diameter of 2.0 mm
- Autoclavable silicone inserts



- WP-4051** 460x160x52 mm
WP-4052 460x160x52 mm
WP-4053 460x160x52 mm



MICRO OPHTHALMIC BASKETS WITH LIDS

Micro ophthalmic baskets are specially designed for delicate micro surgical instruments.

- Manufactured with stainless steel 304
- Electrolyte polished
- Silicone inserts on the bottom of the baskets accommodates micro instruments
- Lids have silicone strips to grip the instruments
- Side walls are constructed of perforated sheets
- Easy to open locking handle
- Designed for delicate micro instruments

WP90-22000 240x250x38 mm

WP90-22001 480x250x38 mm

WP90-22002 400x250x38 mm



INSTRUMENT CASSETTES WITH SPRING HOLDING LIDS

These cassettes are specially designed to minimize the contact area when instruments are inside the cassette. Each instrument is held by a separate spring. The cassette holds thick and thin instruments securely in a single cassette arrangement.

WP-4242 178X64x32 mm

WP-4243 178X114x32 mm

WP-4244 203X140x38 mm

WP-4245 203x280x38 mm

WP-4246 220x125x40 mm

WP-4247 250x220x40 mm



FINE MESH CASSETTES FOR MICRO INSTRUMENTS

These cassettes are specially designed to micro instruments. They are perfect for cleaning instruments, especially when the water spray comes from any angle.

WP-4148 240X90x40 mm

WP-4149 235x80x30 mm

WP-4150 235x155x40



WORLD PRECISION INSTRUMENTS

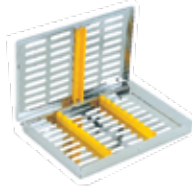
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INSTRUMENT CASSETTES



WP-3010 180X60X22 mm



WP-3011 180X125X22 mm



WP-3016 280x183x32 mm - For 16 Instruments with partition plate



WP-3016



WP-3017

WP-3017 280x183x32 mm - For 20 Instruments



WP-3012 184x145x34 mm



WP-3013 184x74x34 mm

WP-3014 184x74x34 mm



WP-3018 280x205x32 mm



WP-3015 205x143x34 mm



WP-3019 280x183x32 mm



MICRO CASSETTES

Micro cassettes are great for sterilization of micro surgical instruments and small clamps.



WP-3040 40x55x20 mm

WP-3041 74x45x20 mm

WP-3042 74x59x24 mm



CLIP-IN INSERT



WP-3051 185x82x18 mm

WP-3052 185x140x18 mm

FIXING CLAMP

- Adjustable clamp length
- Universally adaptable for all sizes of surgical instruments
- Easily dismantled for cleaning purposes.



WP-4141 60/220x220x39 mm

WP-4142 60x220x39 mm

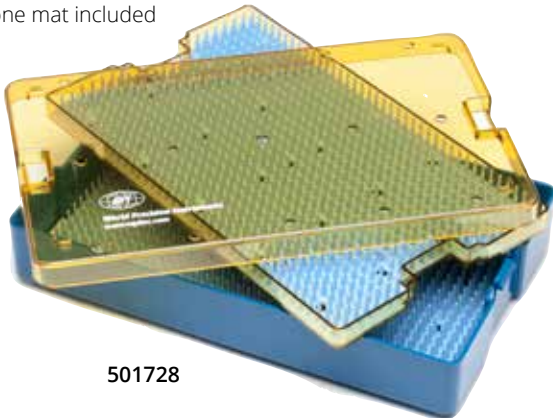
STERILIZING TRAYS

Fine surgical instruments are too valuable not to protect. WPI's sterilizing trays help reduce damage from everyday use. With top quality structural Integrity, these trays are ideal for the handling and storage of all standard microdissection and surgical instruments.

- GE's ULTEM® resin ensures product strength, structural integrity and extended life cycle.
- See-through lids make it easy to locate the correct instrument.
- Suitable for all methods of sterilization (autoclave, steam, dry heat and chemical).
- Unique "grid" design in base makes it easy to install the silicone finger mat required to protect the delicate instruments.

STERILIZING TRAYS

- Silicone mat included



501728

- 500252** 6 x 15 x 2 cm (2.5 x 6 x 0.75 in.) Base, Silicone Mat, Lid
- 500253** 10 x 19 x 2 cm (4 x 7.5 x 0.75 in.) Base, Silicone Mat, Lid
- 500254** 15 x 25.5 x 2 cm (6 x 10 x 0.75 in.) Base, Silicone Mat, Lid
- 501728** 15 x 25.5 x 4 cm (6 x 10 x 1.5 in.) Base, Insert Tray, Lid, 2 Mats

STERILIZATION & STORAGE CASE

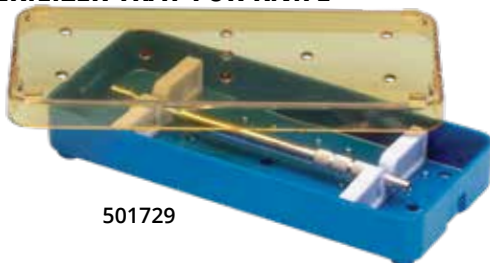
- Stainless Steel case with Silicone pads

- 14213** 19.7 x 10.7 x 3.2 cm
- 501934** 23 x 15 x 5 cm



14213

STERILIZER TRAY FOR KNIFE



501729

- 501729** 15 x 6 x 2 cm (6 x 2.5 x 0.75 in.), Base, Lid, 2 Bars

INSTRUMENT STERILIZATION TRAY

- Rubber grips hold up to 23 instruments



503392

- 503392** 28 x 18 cm, Rubber Grips, Stainless Steel

WIRE BASKET

- Stainless Steel basket
- Woven mesh



504206

- 504206** 405 x 255 x 50 mm
- 504205** 265 x 125 x 30 mm

SILICONE MAT



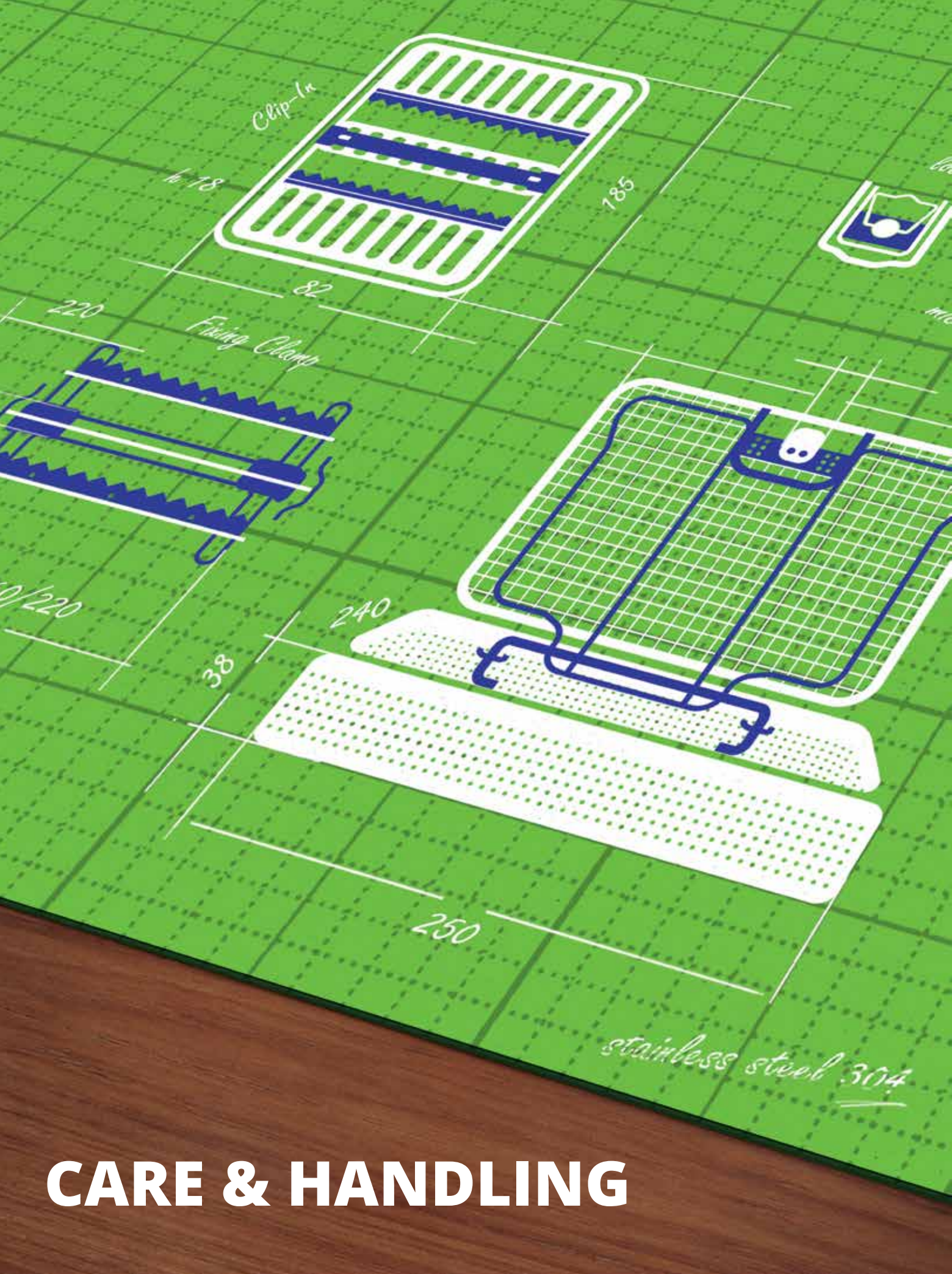
500255
Instruments not included.

- 500255** 38 x 25.5 cm (15 x 10 in.)

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Clip-In

185

82

Fixing Clamp

220

38

240

250

stainless steel 304

CARE & HANDLING

INSTRUMENT CARE & HANDLING

Managing the instrument care process begins with understanding the many types and styles and using the correct one for your procedure. Most surgical instruments are made of surgical stainless steel and are quite robust and resilient, however, they are not indestructible. Stainless steel does stain. It just stains less than other types of steel.

Properly cleaning and caring for your surgical instruments is the single easiest way to prolong their use and improve the outcome of your surgical procedure.

Watch our Care and Cleaning videos:



wpiinc.com/sterilize



CLEANING YOUR INSTRUMENTS

The proper care and handling of surgical instruments is the simplest way to protect your investment and add years to the life of your instruments. It starts with a proper cleaning.

RINSING

The first step in properly cleaning your instruments is to rinse off all blood, bodily fluids and tissue immediately after use. Dried soils may damage the instrument surface and make cleaning difficult. Use plain water, but do not use hot water, because proteinous substances will coagulate.



MANUAL CLEANING

When you are cleaning instruments:

- Use stiff plastic cleaning brushes.
 - Do not use steel wool or wire brushes.
 - Use only neutral pH detergents.
 - If not rinsed properly, low pH detergents may breakdown the stainless protective surface and cause black staining.
 - High pH detergents may cause surface deposits of brown stains, which can interfere with the smooth operation of the instrument.
1. Mix a product such as Alconox (WPI # **13740**) according to the manufacturer's directions and use to it wash the instruments.
 2. Use appropriate brushes to clean each surgical instrument.
 - Use a microbrush to remove debris from the hinged area of scissors, forceps, hemostats, ronguers, needle holders and retractors.
 - Use a microbrush to remove the debris from the box lock area and the ratchet of hemostats and needle holders.
 - Use a microbrush to clean the delicate tips of tweezers.
 - Use a microbrush to remove debris from all moving parts of retractors.
 - Use a stiff brush to clean the tip serrations and handle serrations of dressing forceps and needle holders.
 - Use a stiff brush to clean the teeth of tissue forceps.
 - Brush delicate instruments carefully and handle them separately from general instruments. Ultrasonic cleaning is recommended for delicate instruments like micro scissors (also known as Vannas scissors).
 3. Inspect all instrument surfaces to ensure they are visibly clean and free of stains and tissue. Inspect each instrument for proper function and condition.
 - Scissor blades should glide smoothly and the blades must not be loose when they are in the closed position.
 - Check that forceps tips are properly aligned.

- Hemostats should lock and unlock easily, and the joints should not be too loose.
- Check needle holder jaws for wear. They should not show light through the jaws.
- Examine cutting instruments and knives to be sure their blades are sharp and undamaged.



4. Rinse instruments thoroughly under running water. While rinsing, open and close scissors, hemostats, needle holders and other hinged instruments to ensure that hinge areas are also rinsed.
5. Dry instruments thoroughly with a clean towel. This minimizes the risk of corrosion and formation of water spots. Use a spray lubricant (WPI #**500126**) in the hinges to improve the function of the instrument.

ULTRASONIC CLEANING

The vibrating sound waves create micron-size bubbles in the solution that grow with the alternating pressure. When they reach a resonant size, the bubbles implode creating a force that dislodges dirt and particles, even in the smallest of crevices. The use of an ultrasonic detergent (instead of plain water) greatly improves the rate of cavitation.

1. First, mix the enzymatic cleaner (like Enzol - WPI #**7363-4**), or other neutral pH or mild alkaline detergent (like Alconox - WPI #**13740**) according to the manufacturer recommendations. Use deionized water, if available.
2. Run the ultrasonic cleaner for several minutes to degas the solution and obtain the correct temperature.
3. Place the instruments in an open position into the ultrasonic cleaner. Do not allow instruments with sharp blades to touch other instruments. All instruments must be fully submerged.



CAUTION: Do not place dissimilar metals (stainless, copper, chrome plated, etc.) in the same cleaning cycle.

4. Process instruments in the cleaner for 5 to 10 minutes.

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- Rinse the instruments with water to remove the ultrasonic cleaning solution and any remaining soils.
- Dry the instruments thoroughly with a clean towel. This minimizes the risk of corrosion and the formation of water spots.
- Use a spray lubricant (WPI #500126) in the hinges to improve the function of the instrument.



SOAKING

Large, non-delicate instruments may be soaked in a corrosion inhibiting detergent (like Alconox - WPI #13740) when other cleaning methods are not practical. Rinse and dry your instruments after soaking them.



AUTOMATIC WASHER

Follow the manufacturer's recommendations. Lubricate instruments after the last rinse cycle and before the sterilization cycle.

STERILIZING YOUR INSTRUMENTS

Sterilization removes all microbes from the surface of your surgical instruments. For tips on cleaning, disinfecting and sterilizing your surgical instruments, see our video series on Caring for your Surgical Instrument Investment at www.wpiinc.com/sterilize.

AUTOCLAVING

- Using a surgical instrument lubricant (WPI #500126), lubricate all instruments that have any metal-to-metal action such as scissors, hemostats, needle holders, self retaining retractors, etc.

CAUTION: Do not use WD-40, oil or other industrial lubricants.

CAUTION: Never lock an instrument during autoclaving. This will prevent the steam from reaching and sterilizing the metal-to-metal surfaces. Heat expansion during autoclaving could cause cracks in hinge areas.

- Place a towel on bottom of the sterilization tray to absorb excess moisture during autoclaving. Arrange the instruments in the trays.
- Load the autoclave chamber, but do not overload it. Overloading may hinder steam penetration.
- Run your autoclave according to the manufacturer's directions. At the end of the autoclave cycle (before the drying cycle) unlock autoclave door and open it no more than a crack (about 3/4"). Run the dry cycle for the period recommended by the autoclave manufacturer. If the autoclave door is opened fully before the

drying cycle, cold room air will rush into the chamber, causing condensation on the instruments. This will result in water stains on instruments and also cause wet packs.

COLD STERILIZATION

Most cold sterilization solutions require a 10-hour immersion to render instruments sterile, but this prolonged chemical action may be more detrimental to surgical instruments than the 20-minute autoclave cycle. If the instruments only need to be disinfected (clean and free of most microorganisms), cold sterilization is acceptable, since disinfection will take place in only 10 minutes. However, to render the instruments sterile (with absolutely no microorganisms surviving), autoclaving is recommended.



CAUTION: For instruments with tungsten carbide inserts (needle holders, scissors, tissue forceps), do not use solutions containing benzyl ammonium chloride which will destroy the tungsten carbide inserts.

STORING YOUR INSTRUMENTS

Proper storage of surgical instruments extends their life, and keeps them clean and ready for use.

Instruments should be stored in a clean and dry environment until use. If it is important to keep them sterile, opt for sterilization trays or keep them wrapped in their sterile packages. Instruments stored in covered, dry, sterile trays remain sterile for up to a week. Store wrapped packages in a warm, dry, closed cabinet. Instruments remain sterile as long as the wrapping is dry and intact.



STAIN GUIDE FOR STAINLESS STEEL

Although stainless steel is corrosive resistant, it can still rust and/or stain if it is handled improperly. To determine if a discoloration is rust or just a stain, attempt to erase the discoloration with a pencil eraser. If there is pitting in the metal under the discoloration, it is corrosion. If the discoloration is removed, it was just a stain.

STAIN COLOR	CAUSE
Brown/Orange	High pH
Dark Brown	Low pH
Bluish/Black	Reverse plating due to mixed metals during cleaning process
Multi-color	Excessive heat

STAIN COLOR	CAUSE
Light/Dark Spots	Water droplets drying on the surface
Black	Contact with ammonia
Gray	Excessive use of rust remover solution
Rust	Dried-on blood or bio-debris

GLOSSARY

We have collected some of the common terms you may find in our catalog.



Arthroplasty—Using surgical techniques to reconstruct a joint.

Arthroscopy—Using an arthroscope to examine the inside of a joint.

Aspirate—Using suction to remove fluid or gas from a joint area or cavity.

Atraumatic—Will not cause damage to tissue by crushing or biting.

Autoclave—Piece of equipment that uses heat and steam to sterilize surgical instruments.

Biopsy—To excise and analyze living tissue from an organism.

Blunt—Tip of a surgical instrument that has a rounded shape. (Opposite: Sharp)



Blunt/Blunt

Caliper—An instrument used to make measurements during implant procedures and when installing orthopedic screws.

Cavitation—The forming of tiny bubbles created by sound waves during the cleaning process in an ultrasonic cleaner.

Ceramic coating—Our black instruments have a thin titanium nitride (TiN) coating. TiN is an extremely hard ceramic material, which hardens and protects the cutting edge. Coating surgical instruments with a black ceramic offers several distinct advantages. They are non-reflective, corrosion resistant, low friction, wear and tear resistant and biocompatible.

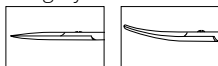
Corrosion—Gradual eroding of a surface on surgical instruments which may be caused by exposure to chemicals or failure to properly clean and store them.

Corrosive—Causes the gradual dissolving and deterioration of a substance, especially by chemicals.

Cleaning detergents—Solutions manufactured to aid in the removal of dirt, protein and biological debris from surgical instruments. This is the first stage of caring for surgical instruments, but it does not disinfect or sterilize the instruments.

Curette—A small, sharp, ice cream scoop shaped instrument used to scrape, shape and remove bone material during a surgery.

Curved—Gentle bend in the tip of a pair of scissors or forceps.



Straight

Curved

Dissect—To methodically take apart, cut up or separate tissue for the purpose of analysis. To study the minute details.

Dissector—Surgical instrument probe used during a dissection to separate tissues or tissue layers.

Hemostat—Ring forceps (also called hemostatic forceps) which are hinged and look like ring scissors and are used to control blood flow. Frequently, hemostats have a locking mechanism called a ratchet, that is used for clamping. Hemostats are used to compress blood vessels or other tubular structures to obstruct the flow of blood or fluids.

Jaws—Business end of ring handled forceps or scissors that is used for grasping or cutting.

Lamina—A thin layer of organic material. For example, it could come from a bone or membrane.

Laminectomy—Excision, or cutting away, of the posterior arch of a vertebrae.

Retractor—Surgical instrument used to hold an incision or a wound open, or to hold an organ or tissue out of the way to expose what is underneath. Three broad categories of retractors include hand retractors, self-retaining retractors and wire retractors. Hand retractors must be held by an assistant, a robot or the surgeon during a procedure. Self-retaining retractors have a mechanical device for holding tissue during surgery, allowing hands free operations. Self-retaining retractors have a screw, ratchet or some type of clamp to hold the tissue by itself. These allow the surgeon to operate with two free hands. Wire retractors are the simplest style of retractor. Usually

the wire has some spring so that the surgeon can pinch it together, position it and release it. These also free up the surgeon's hands.

Rongeur—Surgical instrument like pliers with a heavy, pointed jaw. They are used for gnawing holes in bones during surgery. This could be neurosurgery where the surgeon must remove part of the skull to expose the brain, an orthopedic surgery or a cadaver dissection.

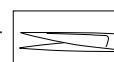
Scissors—Surgical instrument that has two blades joined together in the middle so that the sharp edges slide against each other, shearing what is between the blades. Two main styles exist. Standard scissors have ring handles to put your thumb and index finger in. Spring scissors fit in the palm of your hand and are held between your fingertips and thumb. They shear as you squeeze your thumb and fingers together. They may be used ambidextrously.

Self-retaining—A surgical instrument which can maintain a fixed position. A self-retaining retractor or clamp may have a screw to set the position when surgeon has it in the correct spot. The retractor will remain in position, leaving the surgeon a free hand.

Serrations—Small grooves on the edge or tips of a surgical instrument. They typically have a pattern which could be vertical grooves, horizontal grooves, diamond cuts or cross-hatching.

Shanks—The mid-section of ring handled surgical scissors or forceps where a ratchet mechanism may be located.

Sharp—Tip of a surgical instrument which has a pointed tip. A pair of scissors or a rake retractor can have pointed tips.



Sharp is a common slang for any sharp surgical instrument. (Opposite: Blunt)

Sharp/Sharp

Smooth—Tip of a surgical instrument that has no teeth.

Soft tissue instruments—Basic surgical instruments which are required for making incisions, subcutaneous tissue dissection and wound closure.

Spotting—Discolorations and marks on a surgical instrument caused by non-adhesive surface contaminants.

Staining—Discolorations and marks on a surgical instrument caused by semi-adhesive surface contaminants. These are difficult to remove.

Stainless steel—An alloy of steels where the main metal is iron alloyed with chromium, carbon, manganese, silicon and other elements. Chromium helps with rust resistance, and the other elements can be added for specific characteristics. Most surgical instruments are manufactured from stainless steel.

Sterilization—Process that destroys all microbial life, including spores, on your surgical instruments to make them safe from contamination. Dry heat or autoclaving are the preferred method of sterilizing surgical instruments. Gas and chemical sterilization methods exist too.

Tungsten carbide inserts—Tungsten carbide metal plates are soldered or welded into the jaw of an instrument. Tungsten carbide instruments are more durable, hold an edge longer and last longer than stainless steel instrument. Surgical instruments with gold handles have tungsten carbide inserts in the blades. NOTE: Inserts may also be replaced, extending the life of an instrument.

Teeth—Small, pointed notches or projections on the end of tissue forceps which are used to grasp tissue and prevent the instrument from slipping.



Tissue—A group of cells acting together that have a specialized purpose or perform a particular function.

Ultrasonic cleaner—Mechanical tank that used sound waves (known as cavitation) to clean surgical instruments. They are commonly used before lubrication and sterilization.

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TERMS & CONDITIONS

WPI values its customers and will make every effort to maintain the highest professional and ethical standards. However, WPI regards as invalid any special terms and conditions set forth by any other party, including purchasing, quotations, warranties or other statements. WPI's response to a quotation, purchase order or inquiry shall not be construed as acceptance of any conditions stated therein.

Credit Terms

Net 30 days from date of invoice to customers with satisfactory credit references.

Standard Equipment & Accessories

To insure against misunderstandings or delays, always include model number, name, and significant specifications of systems and accessories when ordering. Also specify any options desired. WPI retains the right to change specifications or discontinue products without prior notice and without responsibility for incorporating such changes into equipment previously sold. Please state the desired operating line voltage and frequency.

Warranty

WPI strives to maintain the highest quality standards in all products. We warrant these products against defects in workmanship or materials, and all WPI products retain a warranty that is stated in the product's manual. (Typically, one year for parts and labor except for consumable items such as electrodes, glass, etc., for which warranty varies from 30 days to six months.) However, WPI hereby specifies that no use or application of any product may be suitable or successful for a specific application and therefore waives all liability in that regard. It is the sole responsibility of the buyer/user to apply the product in a manner consistent with its intended use.

WPI products are not approved for human use unless specifically stated in writing with accompanying FDA (or applicable) documents. WPI assumes no liability or legal, moral, ethical, or fiduciary responsibility for a use of any product in the WPI catalog in treating or studying humans.

Prices

WPI maintains competitive world wide pricing. Prices listed for standard items as described are net and subject to change without notice. Prices (in U.S. dollars) do not include shipping charges. Formal quotations are valid for a period of 30 days unless otherwise specified. Purchases may be charged to your VISA, MasterCard, or American Express account.

Taxes

We reserve the right to add any taxes required by local law or ordinance. Institutions operating under tax-free conditions must state applicable license or contract number and be prepared to furnish necessary exemption certificate.

Packaging and Shipping

Equipment is shipped in adequate commercial packing. All packages should be checked thoroughly before being discarded. Shipping and handling expenses, including adequate insurance coverage, are paid by the customer.

Claims and Returns

Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within ten (10) days after receipt of shipment. Claims for lost shipments must be made within thirty (30) days of receipt of invoice or other notification of shipment. Please save damaged or pilfered cartons until claim is settled. In some instances, photographic documentation may be required. Some items are time-sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container

Do not return any goods to us without obtaining prior approval and instructions from our Returns Department. Goods returned unauthorized or by collect freight may be refused. Goods accepted for restocking will be exchanged or credited to your WPI account and are subject to a restock fee of up to 25%. Goods returned which were ordered by customers in error are subject to a 25% restock fee. Equipment which was built as a special order cannot be returned.

Repairs

Contact our Returns Department for assistance in the repair of apparatus. Do not return goods until instructions have been received. Returned items must be securely packed to prevent further damage in transit. The Customer is responsible for paying shipping expenses, including adequate insurance on all items returned for repairs. Identification of the item(s) by model number, name, serial number and proof of purchase (packing slip number or invoice number) as well as complete description of the difficulties experienced should be written on the RMA request form and a copy of the form must be included with the item.

ORDERING INFORMATION

Orders from **North America** should be directed to WPI's main office:

World Precision Instruments, Inc.
175 Sarasota Center Boulevard
Sarasota, Florida 34240-9258

Telephone: (941) 371-1003 (collect calls not accepted). Facsimile copies of purchase orders, inquiries or other correspondence may be transmitted to WPI's Fax number: (941) 377-5428. When sending written purchase orders to confirm a telephone order, please clearly mark "CONFIRMING" on the order to avoid it being shipped a second time. Our Sales Department's e-mail address is: sales@wpiinc.com

North American customers may also order many products online through WPI's Web site — www.wpiinc.com. All customers may use the online Quote Request Form and online Purchase Order Form.

Orders from **Belgium, Denmark, Eire, Finland, Luxembourg, Norway, Portugal, Spain, Sweden, Switzerland (FR)** and the **United Kingdom** should be directed to

WPI UK: 1 Hunting Gate
Hitchin, Hertfordshire SG4 0TJ England
Tel: +44 (0)1462 424700 Fax: +44 (0)1462 424701
E-mail: wpiuk@wpi-europe.com

Customers in **France** may call +33 (0)970 44 9000 or e-mail wpifr@wpi-europe.com.

Orders from **Austria, Germany, Greece, Italy, Malta, Netherlands, Russian States, Switzerland (DE)** and **Turkey** should be directed to

WPI Germany: Zossener Strasse 55-58
D-10961 Berlin, Germany
Tel: +49 (0) 30-6188845 Fax: +49 (0)30-6188670
E-mail: wpide@wpi-europe.com

Orders from **China, Hong Kong** and **Taiwan** should be directed to

WPI China: WPI Shanghai Trading Co., Ltd., Rm 25e
No8 Dong Fang Rd., Lu Jia Zui Financial District
Shanghai PRC
Tel: + 86 688 85517
Email: chinasales@china.wpiinc.com

Orders from **Brazil** should be directed to

WPI Brazil: Av. Conselheiro Nebias, 756 sala 2611
Santos - Sao Paulo - Brasil
CEP: 11045-002
Email: Info@brazil.wpiinc.com

Orders from the countries listed below should be directed to the appropriate WPI distributors. All other international orders should be directed to WPI's main office and factory in Sarasota, Florida.

To expedite shipment of orders outside North America (other than to areas served by the international offices above), payment must be made in advance via wire transfer, check payable in U.S. dollars, or charged to a credit card. Proforma Invoices will gladly be furnished upon request. Please specify proper electrical current for your order.

Contact our distributor for Poland, Baltics, Czechia, Slovakia, Romania, Croatia and Slovenia

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