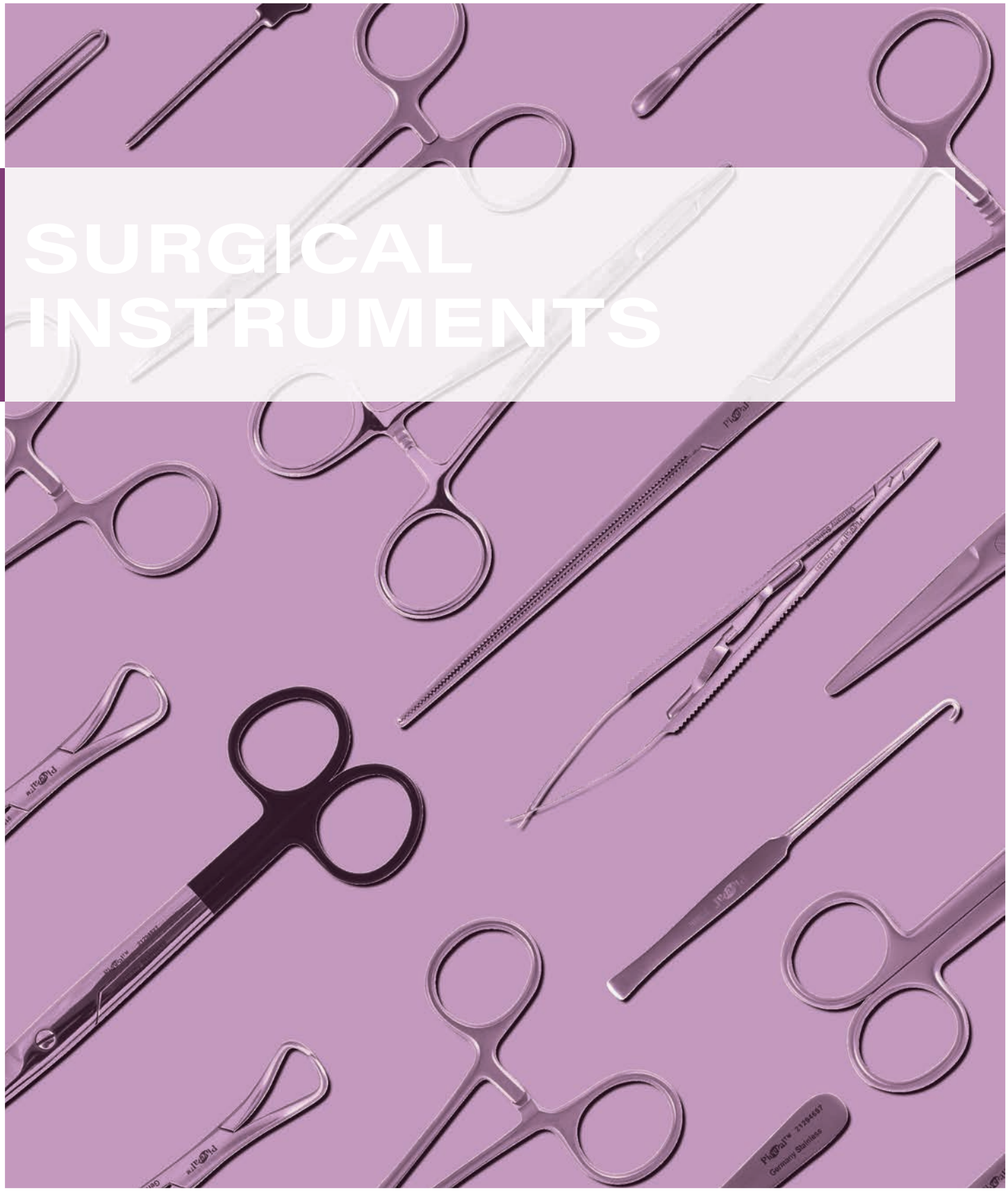
SURGICAL INSTRUMENTS



PRODUCT CATALOG FOR VETERINARIANS

Pivetal®

VITAL TO YOUR PRACTICE

Pivetal
VITAL TO YOUR PRACTICE

EXPERT CRAFTSMANSHIP. SUPERIOR PERFORMANCE.

Pivetal strives to provide quality products that meet or exceed the standards of other leading brands. Like all the products within our portfolio, our surgical instruments have been designed with veterinarians in mind. Sourced with the finest raw materials and crafted by experts, each instrument is manufactured and finished with excellence.

Our instruments are made from quality German stainless steel in over 65 patterns. Crafted in ISO 13485-certified facilities to withstand the demands of regular, everyday use, these tools meet the most stringent international production standards. From forging to machining, finishing to passivation, the journey to the completion of a finished surgical instrument involves 114 deliberate steps and can take up to two months.

Designed to offer outstanding performance and durability, these instruments are backed by the Pivetal Promise – a warranty that guarantees peace of mind and quality backed by service. A complete breakdown of our warranty is located on page 23.

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FOLLOWING THE UNIVERSAL MANUFACTURING PROCESS

Forging is the point of "substantial transformation" which determines the instrument's country of origin, regardless of where all of the other manufacturing steps take place. All of our instruments are finished to technical drawing specifications to ensure precision.

RAW MATERIAL
Steel plates are cut by a splitting machine and can be in the form of square, round, or flat bars.

FORGING
The metal is heated to a malleable temperature of several thousand degrees and stamped out by a drop hammer.

TRIMMING
Excess material around the forged instrument is removed by using presses.

FITTING
The individual rough components are joined together to ensure proper alignment and precise function.

FINISHING
The rough instrument is then deburred, dulled, reassembled, hardened and polished.

International Checkpoints
In addition to meeting ISO-13485 standards, which are the regulatory requirements outlined by the International Organization for Standardization, there are several checkpoints throughout the process of manufacturing surgical instruments.

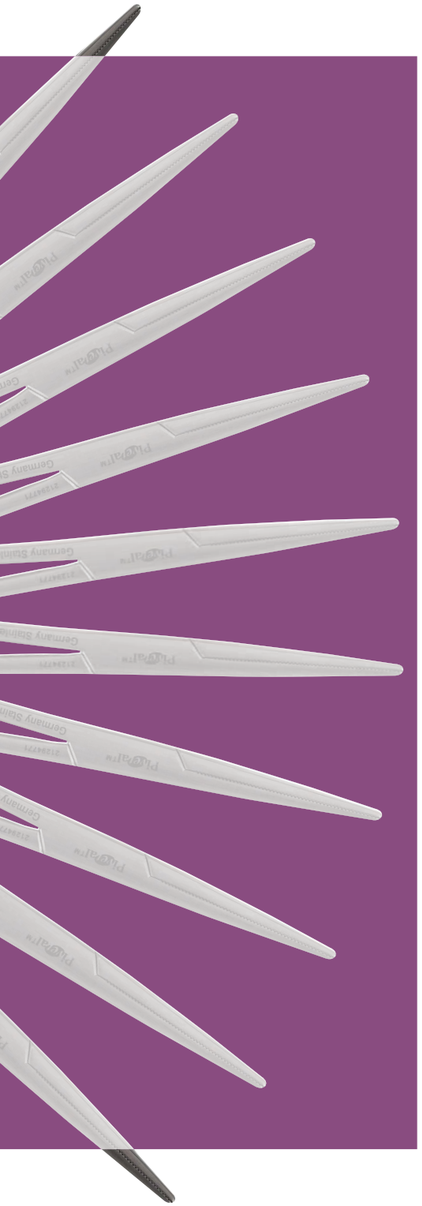
- ASTM E1086[1] and A751[2] Pre-Manufacturing: Tests the chemical resistance of the raw material
- ASTM E18[3] Post-Manufacturing: Tests the strength or hardness of an instrument
- ASTM E3[4] Post-Manufacturing: Tests the microstructure of the metal composition

REFERENCES 1. ASTM Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry: https://www.astm.org/Standards/E1086.htm. **2.** ASTM Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products: https://www.astm.org/DATABASE.CART/HISTORICAL/A751-11.htm. **3.** ASTM Standard Test Methods for Rockwell Hardness of Metallic Materials: https://www.astm.org/Standards/E18.htm. **4.** ASTM Standard Guide for Preparation of Metallographic Specimens: https://www.astm.org/Standards/E3.htm.

FORCEPS

Hemostatic forceps are used to clamp vessels and temporarily obstruct the passage of blood during surgery. Equipped with a ratchet mechanism, these tools can be set to maintain a hands-free occlusion, allowing surgeons the freedom to bind ligatures or make additional transections in the area. These delicate tools come in an array of sizes with straight or curved jaws to be used in various procedures and on different mediums.

For the complete list of available forceps, please see page 5.



ARTERY

Carmalt forceps are larger in size, used to squeeze pedicles prior to ligation and transection. Serrations are found on the entire jaw surface both longitudinally and in the transverse direction (at the tip only), creating cross-striations; this design creates a multifaceted tool for holding confined tissue or removing sutures.

Halsted mosquito forceps are designed with fine tips and short, serrated jaws, making them ideal for compressing smaller blood vessels. Ratcheted finger handles provide a secure, locking grip necessary for halting blood flow.

Kelly forceps are larger and less delicate than mosquito forceps, with serrations on the distal half of the jaws providing hemostasis and clamping of tissue to small and medium-sized blood vessels.

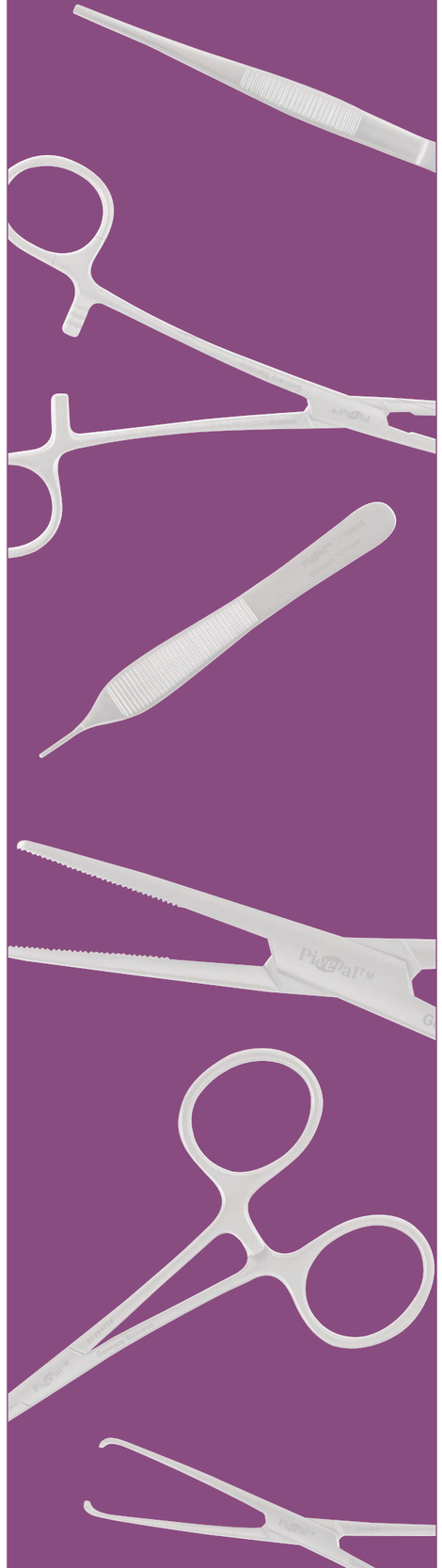
Crile forceps are designed with serrations on the entire length of the jaw surface and are intended for clamping blood vessels prior to cauterization or ligation.

Rochester-Pean forceps come with fully serrated jaws and locking ratchet mechanism to increase stability when clamping larger blood vessels during procedures like hysterectomies, while reducing the potential of the tissue moving.

DISSECTION

Standard dissection forceps can be used as both a hemostat and for blunt tissue dissection.

Hartmann mosquito forceps are intended for fine tissue dissection in shallow wounds or ophthalmologic procedures. The fine, short, serrated jaws can act as a hemostatic clamp, reducing blood flow in order to cauterize or ligate.



DRESSING

Standard dressing forceps have a serrated tip, ideal for securely handling bandages, while the rounded, blunt tip minimizes patient discomfort. Designed for multiple purposes, these forceps can also be used for manipulating and grasping soft tissue.

Adson micro forceps have a serrated, non-locking tip ideal for securely handling bandages, while the rounded, blunt tip minimizes patient discomfort in the event of manipulating delicate tissue.

INTESTINAL

Doyen forceps are characterized by their long, thin, serrated bowing jaws designed specifically for use in gastric and intestinal surgeries. A gentle grip can be created when the handle ratchets are used to reduce tissue trauma.

TISSUE

Adson-Brown forceps are designed to manipulate delicate tissue, like skin and fascia, in a variety of procedures. The small, rat-tooth tips provide a firm but gentle grip on tissue, minimizing trauma.

Allis forceps are intended for grasping organs and slippery, dense tissue. These forceps can cause trauma when misused and should only be used on fascial planes and connective tissue.

Standard tissue forceps are used for grasping, holding, and manipulating various types of tissue in a broad range of procedures.

TOWEL

Backhaus forceps, also known as towel clamps, are commonly used to connect drape (where the corners of two curtains meet) or to position drape to patients' skin during surgical procedures.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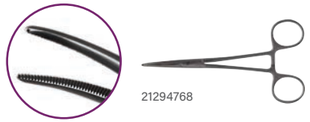
21294756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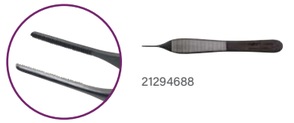
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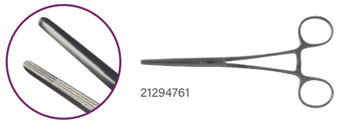
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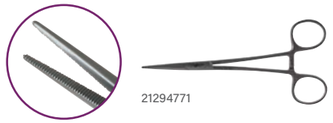
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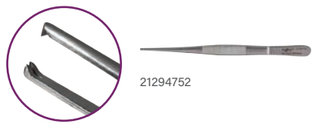
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MPN	DESCRIPTION	LENGTH	SERRATED
ARTERY/HEMOSTAT			
21294768	Crile Forceps, Curved	5 ½" (14 cm)	✓
21294769	Crile Forceps, Straight	5 ½" (14 cm)	✓
21294770	Crile Forceps, Curved	6 ¼" (15.9 cm)	✓
21294771	Crile Forceps, Straight	6 ¼" (15.9 cm)	✓
21294685	Halsted Mosquito Forceps, Curved	4 ¾" (12.1 cm)	✓
21294686	Halsted Mosquito Forceps, Straight	4 ¾" (12.1 cm)	✓
21294766	Kelly Forceps, Curved	5 ½" (14 cm)	✓
21294767	Kelly Forceps, Straight	5 ½" (14 cm)	✓
21294760	Carmalt Forceps, Curved	6 ½" (16.5 cm)	✓
21294761	Carmalt Forceps, Straight	6 ½" (16.5 cm)	✓
21294762	Carmalt Forceps, Curved	8" (20.3 cm)	✓
21294763	Carmalt Forceps, Straight	8" (20.3 cm)	✓
21294765	Rochester-Pean Forceps, Straight	8 ⅞" (22.5 cm)	✓
DISSECTION			
21294773	Hartmann Mosquito Forceps, Curved, Delicate	4" (10.2 cm)	✓
21294774	Hartmann Mosquito Forceps, Straight, Delicate	4" (10.2 cm)	✓
DRESSING			
21294688	Adson Micro Forceps	4 ¾" (12.1 cm)	✓
21294689	Adson Micro Forceps	4 ¾" (12.1 cm)	✓
21294755	Standard Dressing Forceps	5 ¾" (14.6 cm)	✓
INTESTINAL			
21294754	Doyen Forceps, Straight	9" (22.8 cm)	✓
TISSUE			
21294824	Adson Micro Forceps, 1x2T	4 ¾" (12.1 cm)	
21294687	Adson-Brown Forceps, 7x7T	4 ⅞" (12.4 cm)	
21294772	Allis Forceps, 4x5T	6" (15.2 cm)	
21294753	Standard Tissue Forceps, 2x3T	5 ½" (14 cm)	
21294752	Standard Tissue Forceps, 1x2T	5 ¾" (14.6 cm)	
TOWEL CLAMP			
21294756	Backhaus Forceps	3 ½" (8.9 cm)	
21294757	Backhaus Forceps	5 ¼" (13.3 cm)	

Images to the left are listed in numerical order.

MEASURING

We have listed product dimensions in both inches and centimeters for your convenience. Please use the ruler to the right to validate product specifications when ordering.

NEEDLE HOLDERS

These versatile, multi-purpose tools are made to grasp and guide needles to ensure precision when stitching and suturing tissue. Each needle holder has a unique design to hold and manipulate needles based on procedural applications. Many of these needle holders come with a tungsten carbide insert, increasing the quality and longevity of the needle holder's grip. In either scenario, it is recommended that upkeep and/or replacement of instruments are maintained regularly due to wear associated with continuous metal-to-metal contact.

For the complete list of available needle holders, please see page 9.

Castroviejo needle holders are designed with a spring and latch mechanism, creating a small, pencil-like grip for microvascular procedures.

Mayo-Hegar needle holders are designed with strong tapers (no cutting blade) to grasp and guide large, curved suture during surgical procedures.

Olsen-Hegar needle holders have scissor blades located at the base of the jaw allowing veterinarians to manipulate the needle and cut the material when suturing, saving time during procedures.


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21294793

MPN	DESCRIPTION	LENGTH	SERRATED	TUNGSTEN CARBIDE INSERTS
21294833	Castroviejo Micro Needle Holder	5 ½" (14 cm)		
21294793	Mayo-Hegar Needle Holder	6 ¼" (15.9 cm)	✓	
21294794	Mayo-Hegar Needle Holder	6 ¼" (15.9 cm)	✓	✓
21294795	Mayo-Hegar Needle Holder	7 ½" (19 cm)	✓	✓
21294758	Olsen-Hegar Needle Holder with Scissors	5 ½" (14 cm)	✓	
21294790	Olsen-Hegar Needle Holder with Scissors	5 ½" (14 cm)	✓	✓
21294759	Grant/Olsen-Hegar Needle Holder with Scissors	6 ½" (16.5 cm)	✓	
21294791	Olsen-Hegar Needle Holder with Scissors	6 ½" (16.5 cm)	✓	✓
21294792	Olsen-Hegar Needle Holder with Scissors	7 ½" (19 cm)	✓	✓
21294796	Olsen-Hegar Needle Holder with Scissors	7 ½" (19 cm)	✓	✓

Images to the left are listed in numerical order.

MEASURING

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EVOLUTIONARY TECHNOLOGY,

EXCEPTIONAL WOUND CARE

Pivetal offers a diverse selection of swaged sutures manufactured with distinct attributes, like fluorescent coloring and glare-reducing Cobra Black needles, for every surgical procedure. The absorbable and non-absorbable suture profiles provide veterinarians with wound closure options that reduce risk of infection and promote healing.

SCALPEL BLADES

These disposable scalpel blades are intended for use with reusable handles and are available in carbon or stainless steel to meet user preferences. Pivetal scalpel blades come in various sizes to create incisions in skin or soft tissue depending on the procedural needs, including dissection.

- Automated grinding and polishing process ensures consistent and sharp cutting edges
- Gamma sterilized – 2.5 Mrads
- Packaged with VCI (vapor corrosion inhibitor) paper to protect from blade corrosion
- Individually sealed in foil peel packs
- Manufactured in FDA-inspected facilities
- For single use only
- Sterile

Carbon steel is a harder steel option offering long-lasting, sharp edges. Available in sizes 11 and 12.

Premium quality Swiss **stainless steel.** Available in sizes 10 and 15.

21301737

21301738

21301740

21301739

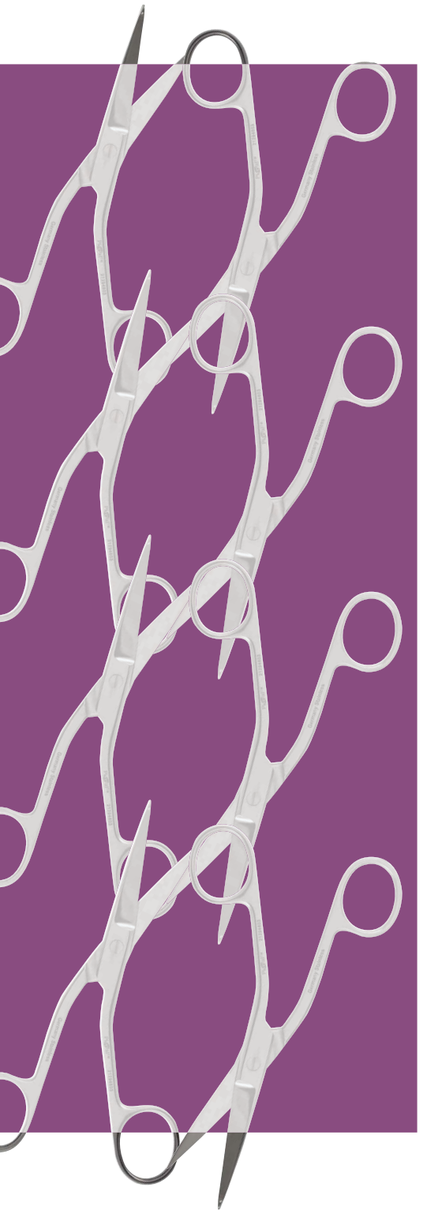
MPN	DESCRIPTION	SIZE	MATERIAL	QTY
21301737	Scalpel Blades	#10	**Stainless Steel**	100s
21301740	Scalpel Blades	#15	**Stainless Steel**	100s
21301738	Scalpel Blades	#11	**Carbon Steel**	100s
21301739	Scalpel Blades	#12	**Carbon Steel**	100s

FITS PIVETAL #3 SCALPEL HANDLE! Order information on page 19.

SCISSORS

Surgical scissors are configured with different tip types, sharp-sharp, blunt-blunt and blunt-sharp, in order to perform a diverse number of tasks. With curved and straight options in various lengths, these tools can cut or dissect both fine, delicate tissue or tough, fibrous matter throughout the body.

For the complete list of available scissors, please see page 17.



BANDAGE

Knowles bandage scissors are used for cutting tight dressings and gauze from patients. Designed with a knob at the end of one point, these angled scissors lift dressings away from the skin, preventing injury during removal.

Lister bandage scissors are also designed to remove tight bandages without penetrating the skin. The blunt tip on the lower blade allows the scissors to be safely placed directly against the patient's skin.

Universal bandage scissors come with a serrated bottom blade and extremely sharp upper blade to help cut through the thickest of dressings and gauze. The tip of the lower blade has a flat, blunt nodule intended to slide between the bandage and patient's skin, reducing the risk of injury.

DISSECTION

Metzenbaum scissors are designed with longer handles and shorter blades to cut through delicate, soft tissue and for blunt dissection.

Mayo scissors come in various lengths and are designed for strength when cutting or dissecting dense, connective tissue and fascia, as well as sutures.

Iris scissors, also known as tenotomy scissors, have a blunt tip intended for detailed dissection of fine tissue and suture removal.

OPERATING

General operating scissors come with sharp points for cutting tissue, dressings, drains, and sutures.

OPHTHALMOLOGIC

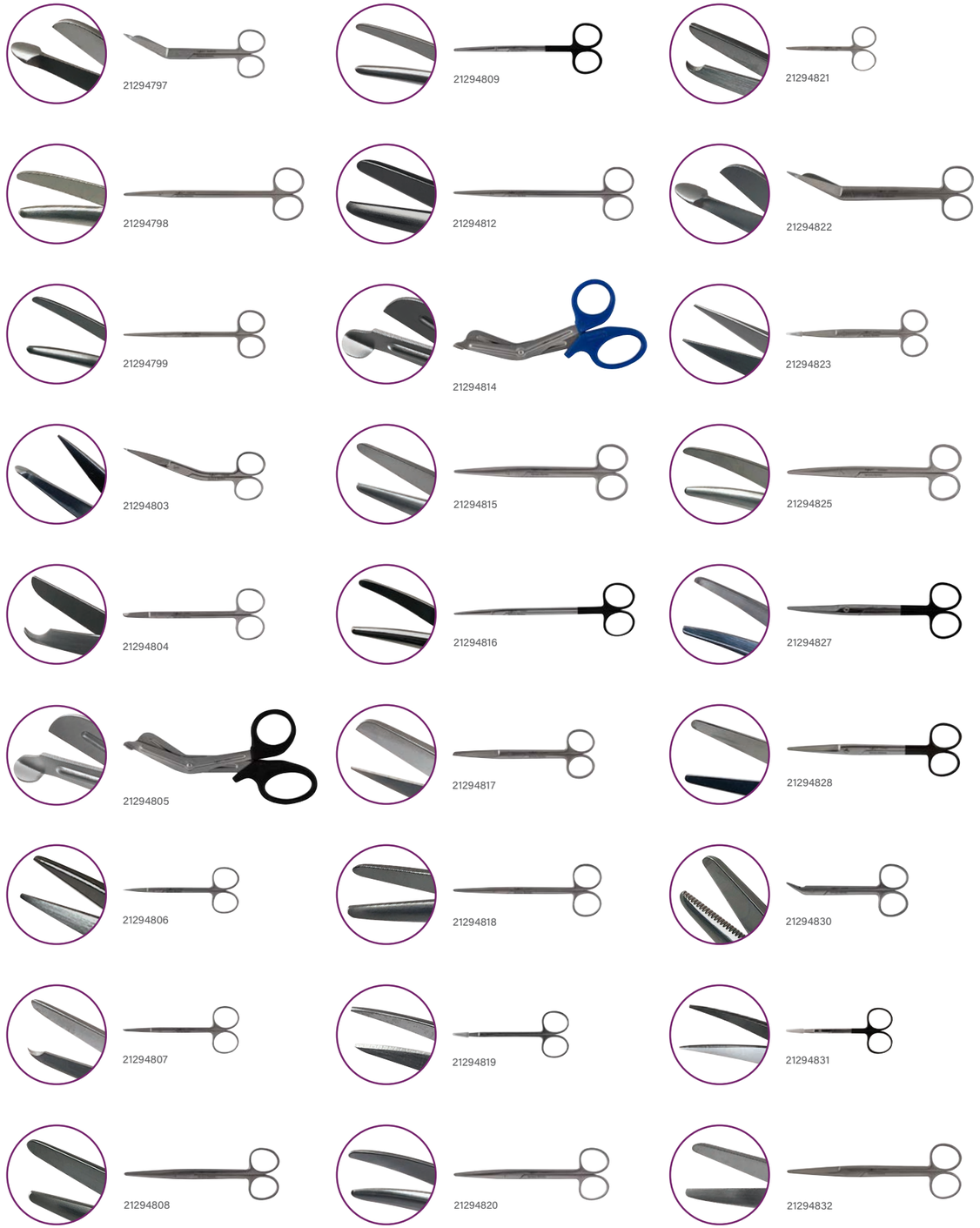
Iris scissors are designed for use in ophthalmologic procedures to manipulate and incise tissue during iridectomy and iridotomies.

STITCH

Littauer and Spencer stitch scissors have a small hook-shaped tip on one blade to help slide and lift, hold, or remove sutures before cutting them.

WIRE-CUTTING

Wire-cutting scissors are non-ratcheted with short tips for cutting wire and suture or trimming tissue.



MPN	DESCRIPTION	LENGTH	SERRATED
BANDAGE			
21294803	Knowles Scissors, Angled, Sharp/Blunt	5 ¾" (14.6 cm)	
21294797	Lister Scissors, Angled, Blunt/Blunt	5 ¾" (14.6 cm)	
21294822	Lister Scissors, Angled, Blunt/Blunt	7 ¼" (18.4 cm)	
21294814	Universal Bandage Scissors, Blue, Angled, Blunt/Blunt	7 ½" (19 cm)	✓
21294805	Universal Bandage Scissors, Black, Angled, Blunt/Blunt	7 ½" (19 cm)	✓
DISSECTING			
21294808	Mayo Scissors, Rounded Blade, Straight, Blunt/Blunt	6" (15.2 cm)	
21294820	Mayo-Stille Scissors, Rounded Blade, Curved, Blunt/Blunt	6" (15.2 cm)	
21294815	Mayo Scissors, Rounded Blade, Straight, Blunt/Blunt	6 ¾" (17 cm)	
21294825	Mayo-Stille Scissors, Rounded Blade, Curved, Blunt/Blunt	6 ¾" (17 cm)	
21294832	Mayo Scissors, Straight, Blunt/Blunt	6 ¾" (17 cm)	
21294827	Mayo Scissors, Curved, Blunt/Blunt, Super Cut	6 ¾" (17 cm)	✓
21294828	Mayo Scissors, Straight, Blunt/Blunt, Super Cut	6 ¾" (17 cm)	✓
21294799	Metzenbaum Scissors, Fine, Curved, Blunt/Blunt	5 ½" (14 cm)	
21294818	Metzenbaum Scissors, Straight, Blunt/Blunt	5 ¾" (14.6 cm)	
21294809	Metzenbaum Scissors, Curved, Blunt/Blunt, Super Cut	5 ¾" (14.6 cm)	✓
21294798	Metzenbaum Scissors, Curved, Blunt/Blunt	7" (17.8 cm)	
21294812	Metzenbaum Scissors, Straight, Blunt/Blunt	7" (17.8 cm)	
21294816	Metzenbaum-Nelson Scissors, Curved, Blunt/Blunt, Super Cut	7" (17.8 cm)	✓
21294819	Iris Scissors, Curved, Sharp/Sharp	4 ½" (11 cm)	
OPERATING			
21294823	General Operating Scissors, Straight, Sharp/Sharp	5 ½" (14 cm)	
21294817	General Operating Scissors, Straight, Sharp/Blunt	5 ½" (14 cm)	
OPHTHALMOLOGIC			
21294831	Iris Scissors, Curved, Sharp/Sharp, Super Cut	4 ⅛" (10.2 cm)	✓
21294806	Iris Scissors, Straight, Sharp/Sharp	4 ½" (11 cm)	
STITCH			
21294807	Littauer Scissors, Straight, Blunt/Blunt	4 ½" (11 cm)	
21294804	Littauer Scissors, Straight, Blunt/Blunt	5 ½" (14 cm)	
21294821	Spencer Scissors, Straight, Blunt/Blunt, Delicate	3 ½" (8.9 cm)	
WIRE-CUTTING			
21294830	Universal Wire Cutting Scissors, Angled, Blunt/Blunt	4 ¾" (12.1 cm)	✓

Images to the left are listed in numerical order.

MEASURING

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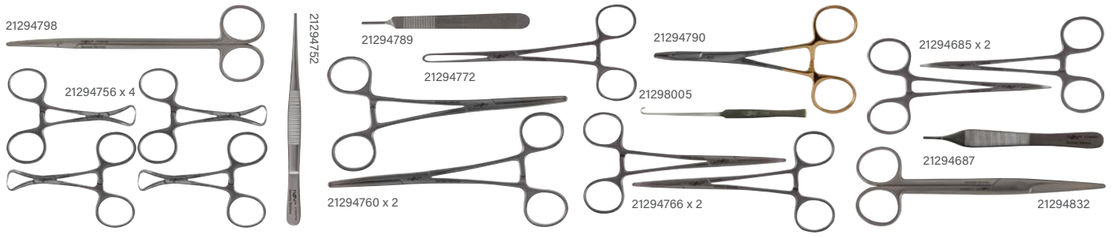
SURGERY PACKS

A staple in any veterinary facility, **general surgery packs** are comprised of an assortment of common, all-purpose hand instruments (clamps, forceps, scalpel handles, needle holders, and scissors) used in routine procedures. **Spay and neuter packs** contain many of the same tools found in the general surgery pack, but also include ancillary instruments needed for removing canine or feline reproductive organs. These spay-neuter packs are available in two sizes, providing veterinarians with instruments appropriate for small and large animal operations.

GENERAL SURGERY PACK

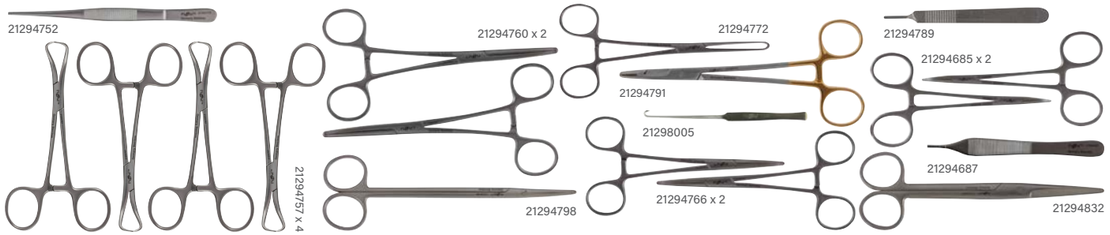
MPN	DESCRIPTION	TYPE	LENGTH	QTY
21294687	Adson-Brown Forceps	Tissue, 7x7T	4 ⅞" (12.4 cm)	1
21294757	Backhaus Forceps	Towel Clamp	5 ¼" (13.3 cm)	4
21294760	Carmalt Forceps	Artery/Hemostat, Curved, Serrated	6 ½" (16.5 cm)	4
21294685	Halsted Mosquito Forceps	Artery/Hemostat, Curved, Serrated	4 ¾" (12.1 cm)	3
21294767	Kelly Forceps	Artery/Hemostat, Straight, Serrated	5 ½" (14 cm)	2
21294832	Mayo Scissors	Straight, Blunt/Blunt	6 ¾" (17 cm)	1
21294798	Metzenbaum Scissors	Dissecting, Curved, Blunt/Blunt	7" (17.8 cm)	1
21294790	Olsen-Hegar Needle Holder with Scissors	Tungsten Carbide Inserts, Serrated	5 ½" (14 cm)	1
21294789	Scalpel Handle	No. 3	5" (12.7 cm)	1
21298005	Snook Hook	Ovariectomy	8" (20.5 cm)	1
21298840	Surgery Pack General		**TOTAL PIECES**	19

SMALL SPAY-NEUTER PACK



MPN	DESCRIPTION	TYPE	LENGTH	QTY
21294687	Adson-Brown Forceps	Tissue, 7x7T	4 ⅞" (12.4 cm)	1
21294772	Allis Forceps	Tissue, 4x5T	6" (15.2 cm)	1
21294756	Backhaus Forceps	Towel Clamp	3 ½" (8.9 cm)	4
21294760	Carmalt Forceps	Artery/Hemostat, Curved, Serrated	6 ½" (16.5 cm)	2
21294685	Halsted Mosquito Forceps	Artery/Hemostat, Curved	4 ¾" (12.1 cm)	2
21294766	Kelly Forceps	Artery/Hemostat, Curved, Serrated	5 ½" (14 cm)	2
21294798	Metzenbaum Scissors	Dissecting, Curved, Blunt/Blunt	7" (17.8 cm)	1
21294790	Olsen-Hegar Needle Holder with Scissors	Tungsten Carbide Inserts, Serrated	5 1/2" (14 cm)	1
21294789	Scalpel Handle	No. 3	5" (12.7 cm)	1
21294752	Standard Tissue Forceps	Tissue, 1x2T	5 ¾" (14.6 cm)	1
21294832	Mayo Scissors	Straight, Blunt/Blunt	6 ¾" (17 cm)	1
21298005	Snook Hook	Ovariectomy	8" (20.5 cm)	1
21298798	Spay-Neuter Surgery Pack, Small		**TOTAL PIECES**	18

LARGE SPAY-NEUTER PACK



MPN	DESCRIPTION	TYPE	LENGTH	QTY
21294687	Adson-Brown Forceps	Tissue, 7x7T	4 ⅞" (12.4 cm)	1
21294772	Allis Forceps	Tissue, 4x5T	6" (15.2 cm)	1
21294757	Backhaus Forceps	Towel Clamp	5 ¼" (13.3 cm)	4
21294760	Carmalt Forceps	Artery/Hemostat, Curved, Serrated	6 ½" (16.5 cm)	2
21294685	Halsted Mosquito Forceps	Artery/Hemostat, Curved	4 ¾" (12.1 cm)	2
21294766	Kelly Forceps	Artery/Hemostat, Curved, Serrated	5 ½" (14 cm)	2
21294798	Metzenbaum Scissors	Dissecting, Curved, Blunt/Blunt	7" (17.8 cm)	1
21294791	Olsen-Hegar Needle Holder with Scissors	Tungsten Carbide Inserts, Serrated	6 ½" (16.5 cm)	1
21294789	Scalpel Handle	No. 3	5" (12.7 cm)	1
21294752	Standard Tissue Forceps	Tissue, 1x2T	5 ¾" (14.6 cm)	1
21294832	Mayo Scissors	Straight, Blunt/Blunt	6 ¾" (17 cm)	1
21298005	Snook Hook	Ovariectomy	8" (20.5 cm)	1
21298799	Spay-Neuter Surgery Pack, Large		**TOTAL PIECES**	18

GALLSTONE SCOOP

FERGUSON

The double-ended Ferguson Gallstone Scoop is intended to aid in the removal of gallstones from the tubular duct.

MPN	DESCRIPTION	TYPE	LENGTH
21294836	Ferguson Gallstone Scoop	Double-ended	9 ½" (24.1 cm)

GROOVED DIRECTOR

TONGUE TIE

Grooved directors are used as guides when inserting probes, stretching ligatures, or gauging specific areas of tissue when suturing during procedures related to the gallbladder, urethra or uterus.

MPN	DESCRIPTION	TYPE	LENGTH
21294834	Grooved Director	Tongue Tie	4 ½" (11.4 cm)

SCALPEL HANDLE

NO. 3

The number 3 reusable handle features an engraved metric scale and is most commonly used with disposable scalpel blades #10, 11, 12, and 15.

MPN	DESCRIPTION	TYPE	LENGTH
21294789	Scalpel Handle	No. 3	5" (12.7 cm)

SNOOK HOOK

OVARIECTOMY

Snook hooks are designed with a curved, button-like tip to remove a horn of the uterus when performing ovariohysterectomies in dogs and cats.

MPN	DESCRIPTION	TYPE	LENGTH
21298005	Snook Hook	Ovariectomy	8" (20.5 cm)

OUR LIFETIME WARRANTY

Designed with the highest global standards in mind, our instruments will provide superior performance and longevity, which is why these tools are backed by the Pivetal Promise – a lifetime warranty that ensures peace of mind and unwavering quality backed by service. Pivetal's collection of hand instruments are guaranteed for life against manufacturing defects and workmanship, provided that the instrument has been used for its intended surgical purpose and has been properly cared for. Pivetal will repair or replace the instrument without charge at our purview.*

Our instruments are carefully examined and inspected during a multi-point review prior to shipping. Any instrument that does not satisfy our quality checklist is sent to be further fine-tuned, cleaned, and polished before undergoing a secondary review.

*Under the discretion of our repair facility, instruments that have not been properly cared for or misused based on their intended purpose will nullify said warranty. Customers will be responsible for the repair or replacement charges associated with any instrument deemed as such.

Tungsten carbide instruments are included under this warranty, except for their inserts, which have separate restrictions (see below).

LIMITED WARRANTY – TUNGSTEN CARBIDE INSERTS

Pivetal's surgical instruments with tungsten carbide inserts are covered under warranty for FIVE full years of normal use upon purchase.

During this five-year period, any adjustments necessary including repair, sharpening (of tungsten carbide scissors) or replacement of the instrument is covered. A nominal charge will be made for repairs upon expiration of the warranty period. All non-tungsten carbide portions of the instrument are guaranteed under the Pivetal Promise Lifetime Warranty mentioned above.

Note: The Pivetal Promise Lifetime Warranty does not apply to the scalpel blade handle #3 or disposable blades.

GENERAL INSTRUMENTATION

RECOMMENDED CLEANING INSTRUCTIONS

Pre-Cleaning

1. All devices should be cleaned in the open position to allow solution to contact all surfaces.
2. Contaminated instruments should be cleaned as soon as possible.
3. Rinse device to remove any excess soil.
4. Submerge instruments in an enzymatic/neutral pH detergent bath and allow soaking between 5 and 10 minutes.
5. Use a soft bristled brush and gently remove any visible soil still remaining on the device. Be sure to clean hinges, crevices and other difficult-to-reach areas.
6. Rinse instruments in purified water for a minimum of 2 minutes. Flush hinges, crevices, and other difficult-to-reach areas until the water exiting the device is clear of soil and detergent. If soil still remains, repeat the steps above.

Manual Cleaning

1. Rinse under cool running tap water to remove excess build-up of soil.
2. Bathe in enzymatic detergent per manufacturer's recommendation using lukewarm tap water for 1 minute.
3. Scrub thoroughly with a soft bristled brush to remove soil.
4. Rinse under cool running tap water and aggressively flush hard-to-reach areas with a syringe to remove detergent residuals.
5. Bathe in a neutral detergent per manufacturer's recommendation using warm tap water for 3 minutes.
6. Scrub thoroughly with a soft bristled brush to remove soil.
7. Rinse under running reverse osmosis/deionized (RO/DI) water to remove detergent.
8. Sonicate in enzymatic detergent per manufacturer's recommendation for 10 minutes.
9. Rinse under running RO/DI water.
10. Dry with a disposable, lint-free cloth.
11. Visually inspect for cleanliness.

Ultrasonic Cleaning

1. Follow Pre-Cleaning steps outlined above.
2. Submerge instruments fully opened in Ultrasonic Washer with cold distilled water and the minimum effective concentration of enzymatic cleaner per manufacturer's recommendation.
3. Ultrasonically clean instruments at 45 kHz for 10 minutes.
4. Rinse under cool running RO/DI water for 2 minutes and flush hinges and crevices with a syringe until water exiting instrument is clear of detergent.
5. Dry with a disposable, lint-free cloth.
6. Visually inspect for cleanliness. Repeat cleaning process, as necessary, until visually clean.

Automated Washer: Neutral pH Detergent

1. Follow Pre-Cleaning steps outlined above.
2. Load instruments into automatic washer per manufacturer's recommended orientation.
3. Wash instruments per mechanical washer parameters in table below.
4. Visually inspect for cleanliness. Repeat cleaning process, as necessary, until visually clean.

Automated Washer: Low Impingement/High pH Detergent

1. Follow Pre-Cleaning steps outlined on page 21.
2. Load instruments into automatic washer per manufacturer's recommended orientation.
3. Wash instruments per mechanical washer parameters in table below.
4. **Low motor setting (low impingement) requires Neutral pH Cleaner to be replaced with Alkaline Detergent with pH above 11 in Wash 1 Phase.**
5. Visually inspect for cleanliness. Repeat cleaning process, as necessary, until visually clean.

PHASE	TIME	DESCRIPTION	DETERGENT
Pre-Wash 1	2 min	Pre-wash with cold tap water	None
Enzyme Wash	1 min	Enzyme spray and soak with hot tap water	Enzymatic Detergent
Cold Water Rinse	15 sec	Cold tap water rinse (2x)	None
Wash	2 min	Detergent wash with hot tap water	Neutral pH Cleaner
Hot Water Rinse	15 sec	Hot tap water rinse	None
Pure Rinse	10 sec	Hot purified water	None
Drying	7 min	Hot air dry	None

Note: Ensure instruments are lubricated prior to sterilization and after last rinse cycle using a water-soluble product intended for surgical instruments.

RECOMMENDED STERILIZATION INSTRUCTIONS

Sterilization should be performed in a medical-grade instrument tray or disposable paper or plastic pouch. Make certain that the instrument container is sealed in appropriate packaging for sterilization. Sterilize in compliance with the local guidelines for hospital hygiene.

Sterilization of instruments may be accomplished by autoclave or ethylene oxide. Time and temperature parameters required for sterilization vary according to type of sterilizer, cycle design, and packaging material.

Autoclave Sterilization

- Do not sterilize instruments at temperatures over 285°F (141°C).
- All ring-handled instruments must be autoclaved in the fully open position to prevent cracking of the box lock.
- All instruments must be sterilized in the completely open position. Applicable instrument disassembly should not require any mechanical tooling such as screwdrivers, pliers, etc.
- All devices shall be positioned to allow steam contact of all surfaces.
- All instruments with concave surfaces shall be placed so that the surfaces will drain water.
- Always verify parameters with sterilizer's written instructions.
- The use of "flash" sterilization is not recommended, as it may shorten the life of instruments.

CYCLE TYPE	PARAMETER	MINIMUM SET POINT
Pre-Vacuum	Exposure Temp	270˚F (132˚C)
	Exposure Time	4 minutes
	Dry Time	30 minutes
Pre-Vacuum	Exposure Temp	275˚F (135˚C)
	Exposure Time	3 minutes
	Dry Time	30 minutes
Gravity Displacement	Exposure Temp	270˚F (132˚C)
	Exposure Time	15 minutes
	Dry Time	30 minutes

STORAGE

After sterilization, instruments should remain in sterilization wrap and be stored in a clean and dry environment. The devices are manufactured from non-degradable materials. When stored under the recommended conditions, the shelf-life of this product is not limited.

MAINTENANCE

Apply lubricant on the connecting elements (locking mechanism) and moving parts only.

Note: It is the responsibility of the customer to ensure that the maintenance of each instrument is performed using the proper equipment, materials, and personnel to achieve the desired result. This requires validation and routine monitoring of the washers and sterilizers used throughout the instrumentation process. Any deviation from the instructions provided may result in potential adverse consequences. The manufacturer warranty is null and void in the event of improper use or care of instruments.

REPAIR

To ensure that all repairs are completed according to the manufacturer's specifications, instruments should only be repaired by an authorized repair facility.

All products are guaranteed to be free from defects in material and workmanship at the time of shipping. All of our products are designed and manufactured to meet the highest quality standards. We cannot accept liability for failure of products which have been modified in any way from their original condition.

For more information, please visit **pivetalvet.com**

Pivetal®

VITAL TO YOUR PRACTICE

02/2022