

Stoelting

Evolving Neuroscience and Behavior Research Since 1886.

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ANY-maze
Behavioral Tracking Software



ugo basile
Exclusive Distributor

620 Wheat Lane, Wood Dale, IL 60191 • USA
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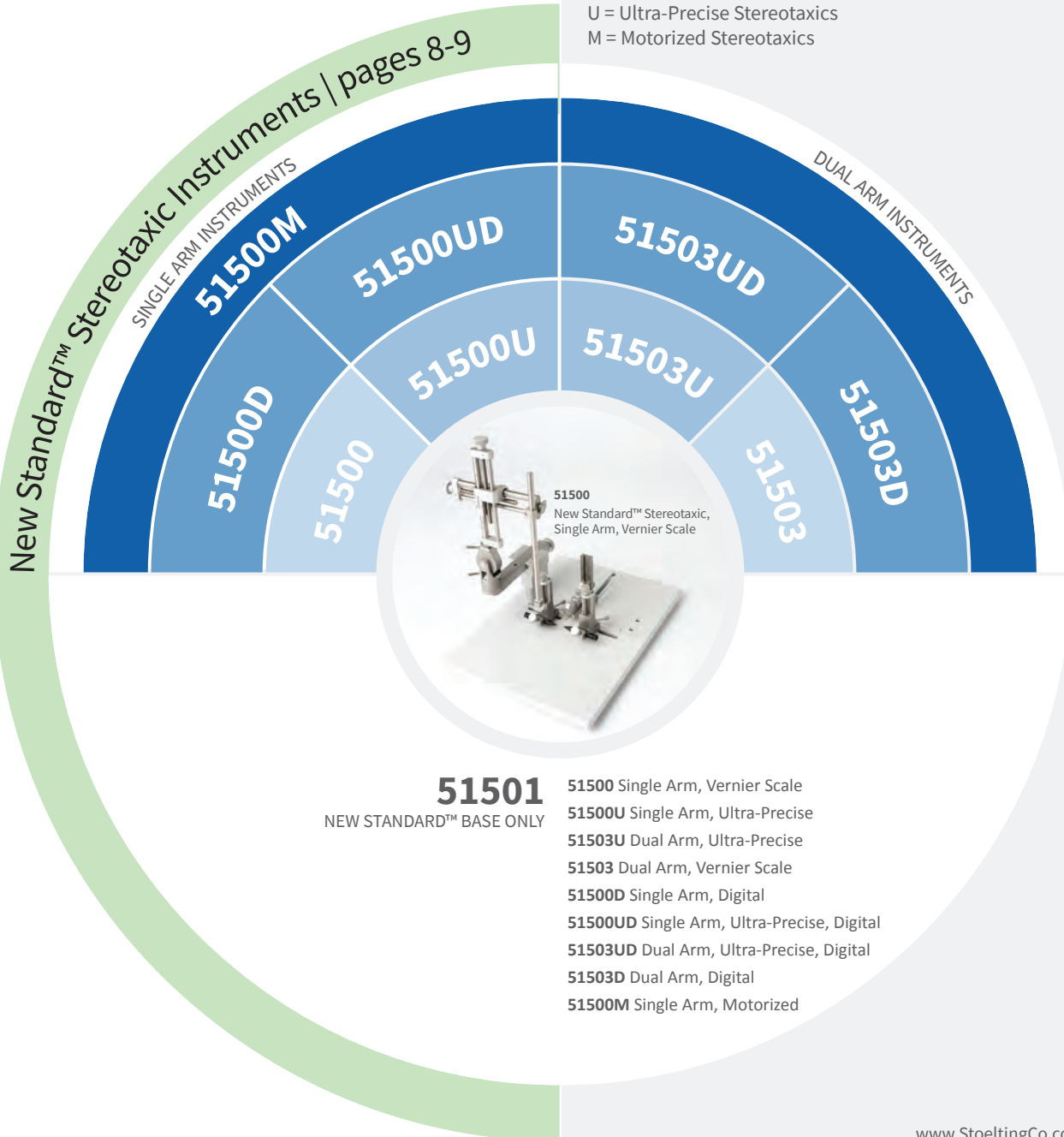
Which New Standard™ Stereotaxic Instrument is best for you?

PRODUCT NUMBER KEY:

D = Digital Stereotaxic

U = Ultra-Precise Stereotaxics

M = Motorized Stereotaxics



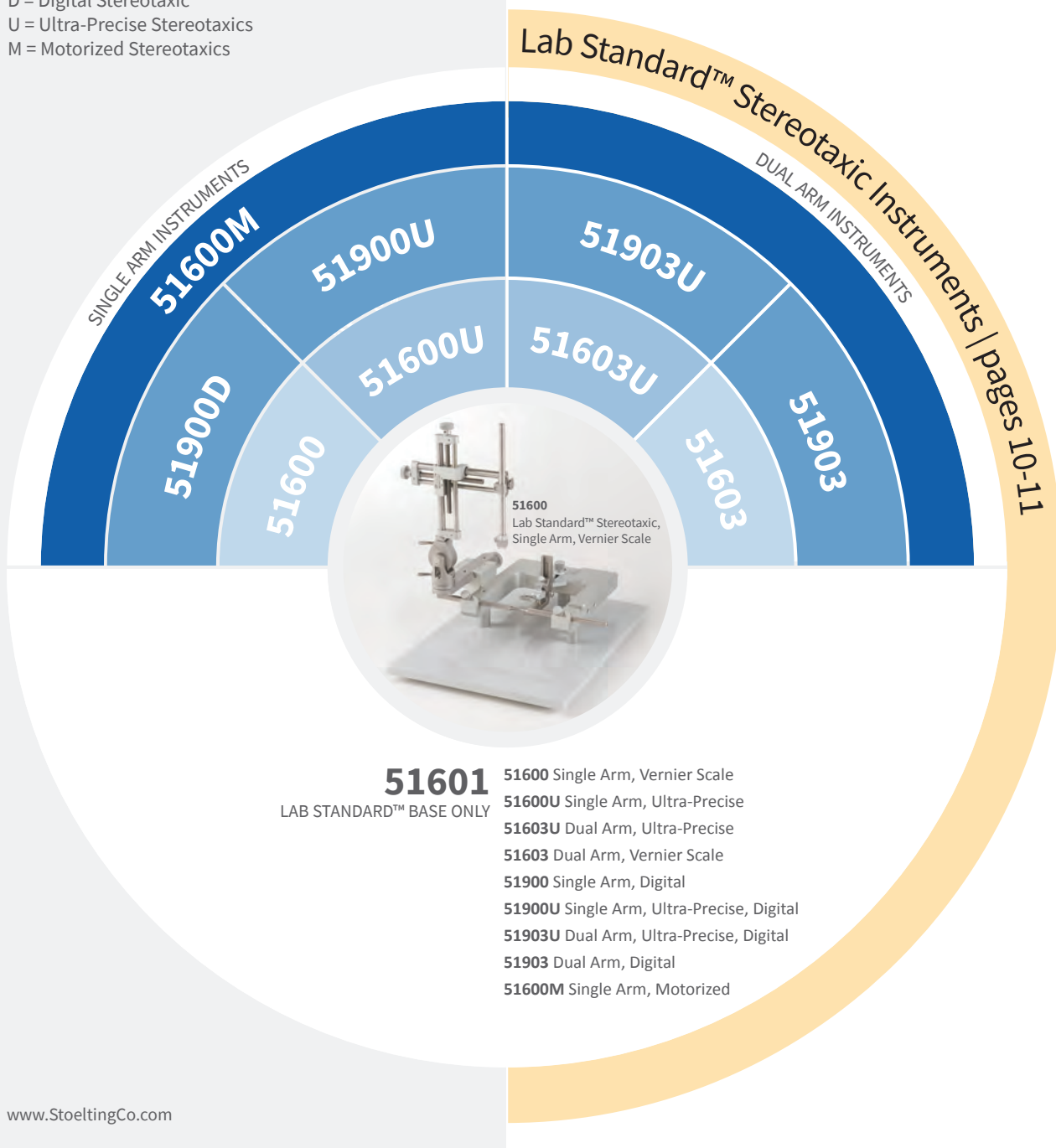
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Evolution of the Stereotaxic

Which Lab Standard™ Stereotaxic Instrument is best for you?

PRODUCT NUMBER KEY:

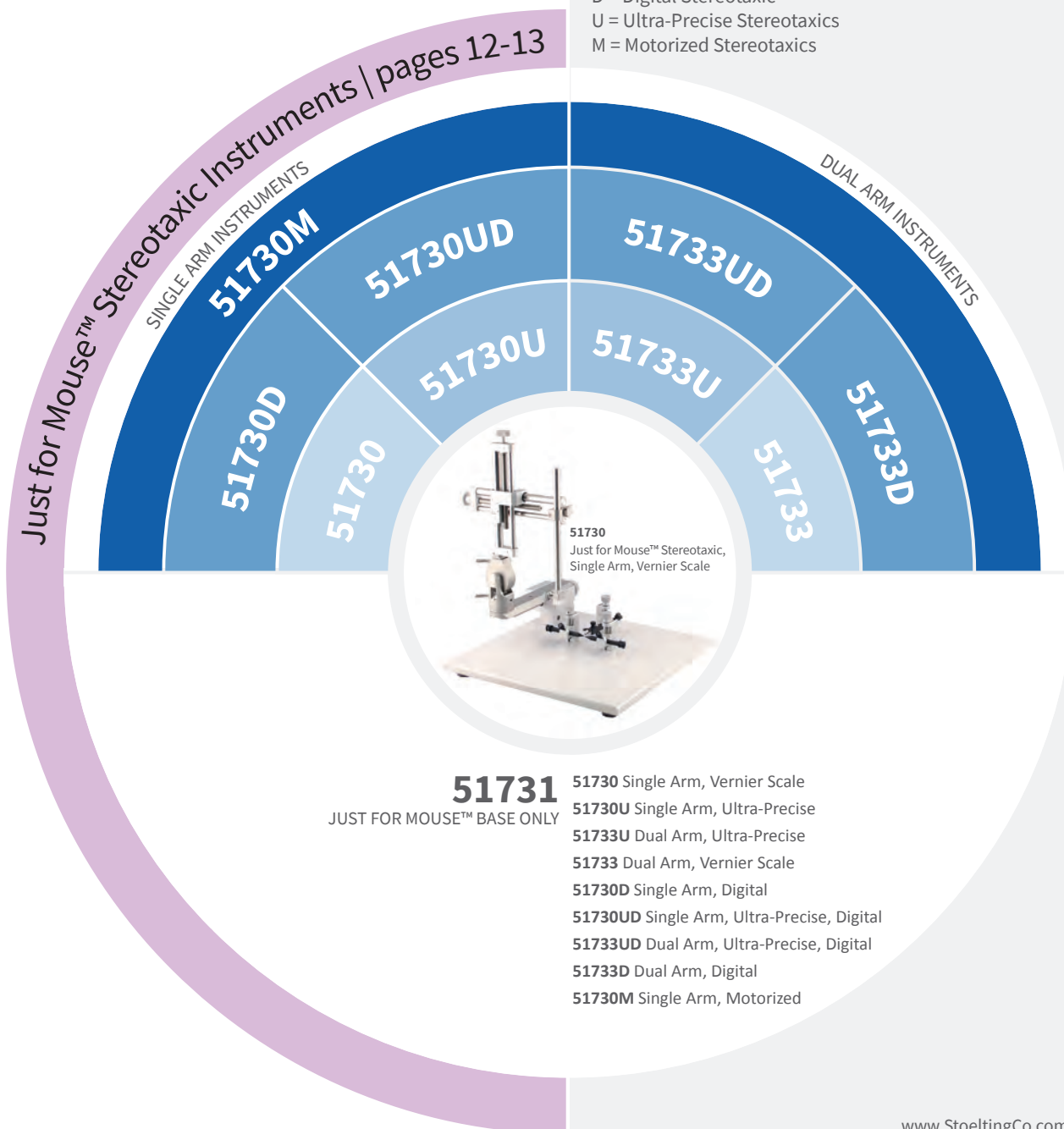
D = Digital Stereotaxic
U = Ultra-Precise Stereotaxics
M = Motorized Stereotaxics



Which Just for Mouse™ Stereotaxic Instrument is best for you?

PRODUCT NUMBER KEY:

D = Digital Stereotaxic
U = Ultra-Precise Stereotaxics
M = Motorized Stereotaxics



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Rat and Mouse Stereotaxic Instruments

New Standard™ Stereotaxic Instrument for Rat and Mouse

The innovative design of the New Standard™ Stereotaxic Instrument provides users with the ability to perform surgeries on a Mouse or a Rat on the same base. The New Standard™ includes a 100 micron 3-axes, left-hand manipulator arm, separate rat and mouse adaptors, dual-sided (traditional and non-rupture) rat ear bars, dual-sided mouse ear bars, and corner-clamp probe holder. Also, available as Dual, Ultra-Precise, Digital or Motorized.

New Standard™ Features

- No U-Frame maximizes operating space
- Designed for a Rat or a Mouse on the same base
- Vertical and horizontal adjustment of ear and nose posts accommodates rodents of all sizes
- Scales at ear and nose posts allows for precise positioning
- Comes standard with integrated warming base!



**Equipped with
Warming Base!**

See pages 38-39



Sign up now for our 3-day workshops for learning stereotaxic surgical techniques at the Jackson Laboratory. Scan for details, or visit www.jax.org/stereotaxic

**Revolutionary
design has eliminated
the U-frame allowing
for greater flexibility
and access to
the animal.**

**Most versatile
Stereotaxic Instrument
available!**

51500 New Standard™
Stereotaxic Instrument

Rat and Mouse Stereotaxic Instruments

51500M Motorized New Standard™
Stereotaxic Instrument shown with
optional Drill, not included.

51500 New Standard™ Stereotaxic Instrument, Rat and Mouse

**Rat and Mouse
accessories included!**

51500D Digital New Standard™ Stereotaxic Instrument

51500UD Ultra-Precise Digital New Standard™ Stereotaxic Instrument

NEW STANDARD™ STEREOTAXIC

51500	New Standard™ Stereotaxic, Rat and Mouse
51503	Dual New Standard™ Stereotaxic, Rat and Mouse

ULTRA-PRECISE

51500U	Ultra-Precise New Standard™ Stereotaxic, Rat and Mouse
51503U	Ultra-Precise Dual New Standard™ Stereotaxic, Rat and Mouse

DIGITAL

51500D	Digital New Standard™ Stereotaxic, Rat and Mouse
51503D	Dual Digital New Standard™ Stereotaxic, Rat and Mouse

DIGITAL ULTRA-PRECISE

51500UD	Digital Ultra-Precise New Standard™ Stereotaxic
51503UD	Dual, Digital Ultra-Precise New Standard™ Stereotaxic, Rat and Mouse

MOTORIZED

51500M	Motorized New Standard™ Stereotaxic, Rat and Mouse
51555M	Optional Motorized Drill

Rat Stereotaxic Instruments

Classic Lab Standard™ Stereotaxic Instruments for Rats

The Classic Lab Standard™ Stereotaxic Instrument has been a standard in research labs for nearly five decades. The time-proven U-Frame design provides stability and adaptability while the instrument's exclusive, triple-lead screws allow for smooth, consistent movements with rapid positioning. The Classic Lab Standard™ includes a 100 micron, 3-axes, left-hand manipulator arm, rat adaptor, traditional (18°) ear bars, and corner-clamp probe holder. Also available as Dual, Ultra-Precise, Digital, Ultra-Precise Digital, or Motorized.

Lab Standard™ Features

- Low cost
- Classic U-Frame design
- Interchangeable adaptors (for Mice or Rats)
- Gas anesthesia compatible
- Absolute lock at 90° vertical
- **Comes standard with integrated warming base!**

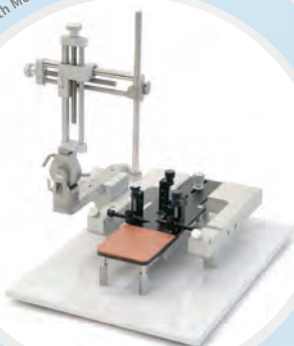
The classic **U-frame** design has been a **standard in research labs** for nearly five decades!



Sign up now for our 3-day workshops for learning stereotaxic surgical techniques at the Jackson Laboratory. Scan for details, or visit www.jax.org/stereotaxic

Adaptable for use with mice!
See page 23

51615 Lab Standard™ Stereotaxic with Mouse and Neonates Adaptor



Equipped with Warming Base!
See pages 38-39



51600 Classic Lab Standard™ Stereotaxic

Rat Stereotaxic Instruments

Manipulator options
increase resolution.



CLASSIC LAB STANDARD™

51600	Lab Standard™ for Rats
51603	Dual Lab Standard™ for Rats
51615	Lab Standard with Mouse and Neonates Adaptor with Warming Pad
51670	Lab Standard with Mouse and Rat Adaptors

ULTRA-PRECISE

51600U	Ultra-Precise Lab Standard™ for Rats
51603U	Ultra-Precise Dual Lab Standard™ for Rats

DIGITAL

51900	Digital Lab Standard™ for Rats
51903	Dual Digital Lab Standard™ for Rats

DIGITAL ULTRA-PRECISE

51900U	Ultra-Precise Digital Lab Standard™ for Rats
51903U	Ultra-Precise Dual, Digital Lab Standard™ for Rats

MOTORIZED

51600M	Motorized Lab Standard™ Stereotaxic, Rat
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Traditional 18° ear bars included. Non-rupture 45° ear bars available upon request.

For questions
related to the Motorized,
please contact one of our
Stereotaxic experts at
Neuro@StoeltingCo.com

Mouse Stereotaxic Instruments

Just for Mouse™ Stereotaxic Instruments for Mice

The Stoelting Just For Mouse™ Stereotaxic Instrument was specifically designed for use with knock-out and transgenic mice. Includes a 10 x 10 in (25 x 25cm) square base; 100 micron; 3-axes; left-hand manipulator arm; triple-point mouse and ear bars; snout clamp, and corner clamp probe holder. Also, available as Dual, Ultra-Precise, Digital, Digital Ultra-Precise, or Motorized.

Just for Mouse™ Features:

- Dual-arm capable
- Small footprint
- Compact and cost-effective
- Ideal for knock-out and transgenic mice
- Offers multiple head-holding options
- Vertical post adjustment
- Gas anesthesia compatible
(see product 51609M on page 28)
- Comes standard with integrated warming base



51730 Just for Mouse™
Stereotaxic Instrument



**Equipped with
Warming Base!**
See pages 38-39

**The smallest
stereotaxic
making the biggest
impact.**

**Most affordable
stereotaxic available!**

Traditional (18°)
ear bars with rubber
tips included.
Non-rupture (45°)
ear bars available
upon request.
See below and page 29.



Sign up now for our 3-day
workshops for learning stereotaxic
surgical techniques at the
Jackson Laboratory. Scan for
details, or visit
www.jax.org/stereotaxic

Mouse Stereotaxic Instruments

51730M Motorized Just for Mouse™ Stereotaxic Instrument

51609M Mouse Anesthesia Mask

Optional Mouse Anesthesia Mask on page 28.

51730D Digital Just for Mouse™ Stereotaxic Instrument

51730UD Digital Ultra-Precise Just for Mouse™ Stereotaxic Instrument

JUST FOR MOUSE™ STEREOTAXIC

51730	Just For Mouse™ Stereotaxic Instrument
51733	Dual Just For Mouse™ Stereotaxic Instrument

ULTRA-PRECISE

51730U	Ultra-Precise Just For Mouse™ Stereotaxic Instrument
51733U	Ultra-Precise Dual Just For Mouse™ Stereotaxic Instrument

DIGITAL

51730D	Digital Just For Mouse™ Stereotaxic Instrument
51733D	Dual Digital Just for Mouse™ Stereotaxic Instrument

DIGITAL ULTRA-PRECISE

51730UD	Ultra-Precise Digital Just for Mouse Stereotaxic Instrument
51733UD	Ultra-Precise Dual Digital Just for Mouse Stereotaxic Instrument

MOTORIZED

51730M	Motorized Just for Mouse™ Stereotaxic Instrument
51555M	Optional Motorized Drill
51609M	Gas Anesthesia Mask for Mouse Stereotaxic

Motorized Stereotaxic Manipulator Arms

NEW!

Stoelting's Motorized Stereotaxic Manipulator Arms

Stoelting's Motorized Stereotaxic Manipulator Arms are designed for fast, accurate positioning during stereotaxic surgery. Ideal for inexperienced users, the motorized manipulator arms employ a touchscreen display for easy-to-control movement of each axis. Manual movement available anytime. Optional Drill feature available.

Motorized Manipulator Arm Features:

- Automatic motorized movement using touchscreen display
- Various speeds (4mm/s to 0.1mm/s)
- Manual option always available
- Optional Drill feature
- 1µm movement



51600M Motorized Lab Standard™ Stereotaxic Instrument shown with optional Drill, not included.



Equipped with Warming Base!
See pages 38-39

Quick and extremely accurate. Easy-to-control movement for an affordable price!

MOTORIZED MANIPULATOR ARMS	
51604M	Motorized Manipulator Arms, 3 Axes, Left
MOTORIZED STEREOTAXIC INSTRUMENTS	
51500M	Motorized New Standard Stereotaxic, Rat & Mouse
51600M	Motorized Lab Standard Stereotaxic, Rat
51615M	Motorized Lab Standard Stereotaxic, with Mouse and Neonate Adaptor
51770M	Motorized Lab Standard Stereotaxic, with Mouse and Rat Adaptor
51730M	Just for Mouse Stereotaxic, Mouse
51555M	Drill for Motorized Stereotaxic

Compare to Neurostar's Robot Stereotaxic Instruments. See page 18.

Stereotaxic Upgrades & Conversions

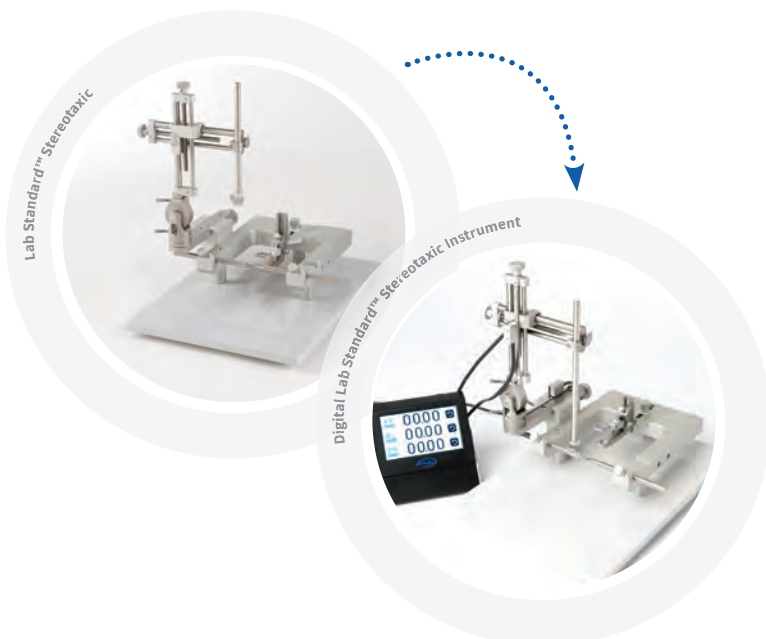
Digital Conversion

- Zeroing function at reference point
- 10-micron digital scale
- Increased repeatability

You should consider an upgrade if you currently own a standard model stereotaxic. We can upgrade most major stereotaxic brands. Upgrading your existing stereotaxic to a digital model will reduce the risk of human error, and increase accuracy (10- rather than 100-micron resolution). The large LED display is also useful for surgeries performed in low light, or constrained environments where reading the vernier scale is difficult.

DIGITAL CONVERSION

51914	Conversion to Digital, 3-axes, Left
51916	Conversion to Digital, 3-axes, Right



Motorized Conversion

Stoelting's Motorized Stereotaxic Manipulator Arms are designed for fast, accurate positioning during stereotaxic surgery. Ideal for inexperienced users, the motorized manipulator arms employ a touchscreen display for easy-to-control movement of each axis. Manual movement available anytime. Optional Drill feature available.

Motorized Manipulator Arm Features:

- Automatic motorized movement using touchscreen display
- Various speeds (4mm/s to 0.1mm/s)
- Manual option always available
- Optional Drill feature
- 1µm movement

MOTORIZED CONVERSION

51604M	Conversion to Motorized, 3-axes, Left
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Keep your Stereotaxic Base and upgrade with new Motorized Axes!



Stereotaxic Care and Maintenance

- Wipe your stereotaxic instrument with soap or a mild detergent.
- Keep your stereotaxic instrument free of dust and debris.
- Never autoclave your stereotaxic instrument.
- Sterilize your stereotaxic instrument using gas or a germicide if necessary.
- Stereotaxic instruments perform best at room temperature 70° - 75° F (20° - 24° C), and at 45-60% humidity.
- **Call for details about calibration service!**



Ultra-Precise Stereotaxic Manipulator Arms

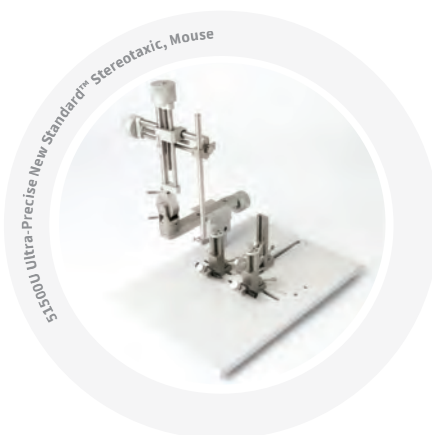
Ultra-Precise Manipulator Arms

Ultra-Precise Manipulator Arms are ideal for use in stereotaxic surgery where high-accuracy positioning is required. Up to 80mm of travel is available in all directions, with up to 90° angle adjustment, in either the anterior-posterior or medial-lateral planes. Ultra-Precise Manipulators are compatible with all Stoelting Stereotaxics including New Standard™, Lab Standard™, and Just for Mouse™.

Ultra-Precise Features:

- 10-micron resolution
- Target small brain regions with confidence
- Upgrade ANY Stoelting Stereotaxic and most other stereotaxic brands

**Extremely high
accuracy...Precision
like no other!
Contact us
for more details.**



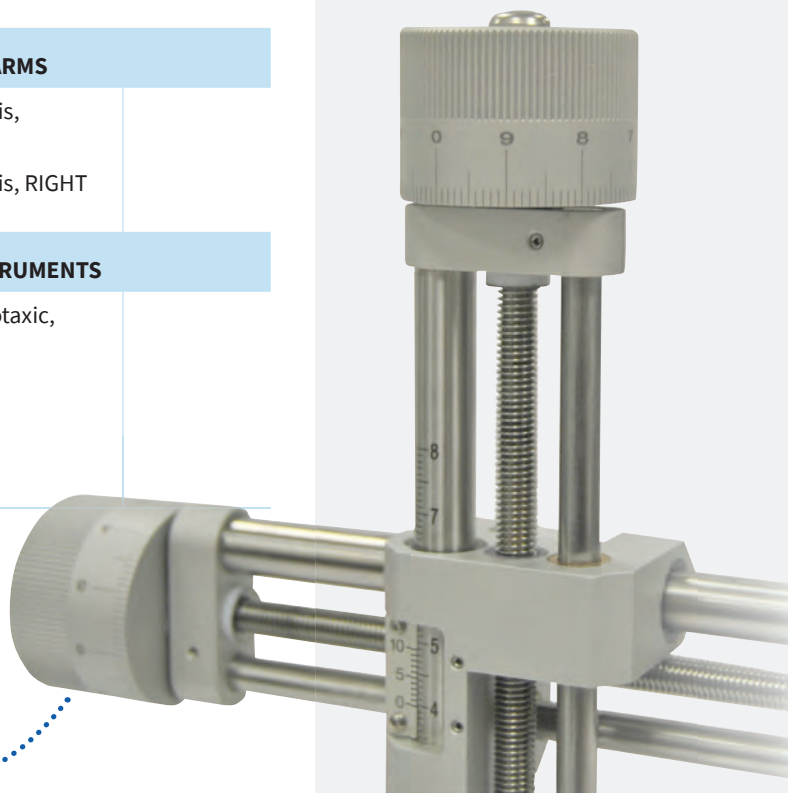
ULTRA-PRECISE STEREOTAXIC MANIPULATOR ARMS

51604U	Ultra-Precise Manipulator Arm, 3-Axis, LEFT Hand
51606U	Ultra-Precise Manipulator Arm, 3-Axis, RIGHT Hand

COMPLETE ULTRA-PRECISE STEREOTAXIC INSTRUMENTS

51500U	Ultra-Precise New Standard™ Stereotaxic, Rat and Mouse
51600U	Ultra-Precise Lab Standard, Rat
51730U	Ultra-Precise Just for Mouse™ Stereotaxic Instrument

Stoelting **Ultra-Precise**
Manipulator Arms
offer **increased resolution!**



Digital Stereotaxic Manipulator Arms

Stoelting's Digital Stereotaxic Manipulator Arms

Stoelting's Digital Stereotaxic Manipulator Arms are designed for fast, accurate positioning during stereotaxic surgery. Ideal for inexperienced users, the digital manipulator arms employ an LED module that provides immediate coordinate feedback for repeatable targeting!

- 10-micron resolution
- Upgrade or convert your existing Manipulator Arm (see page 15)
- No computer necessary

Stoelting's Digital Stereotaxic Manipulator Arms reduce the risk for human error.

DIGITAL MANIPULATOR ARMS

51904	Digital 3-axes Manipulator Arm, Left
51906	Digital 3-axes Manipulator Arm, Right

DIGITAL CONVERSION

51914	Digital Conversion for Stoelting Manipulator Arm, Left
51916	Digital Conversion for Stoelting Manipulator Arm, Right

COMPLETE DIGITAL STEREOTAXIC INSTRUMENTS

51500D	Digital New Lab Standard Stereotaxic for Rats and Mice
51900	Digital Lab Standard Stereotaxic for Rats
51730D	Digital Just for Mouse Stereotaxic (Best Seller!)

Digital Manipulator Arms sold separately, or as part of our Digital Stereotaxic Instruments.

Upgrading increases resolution.



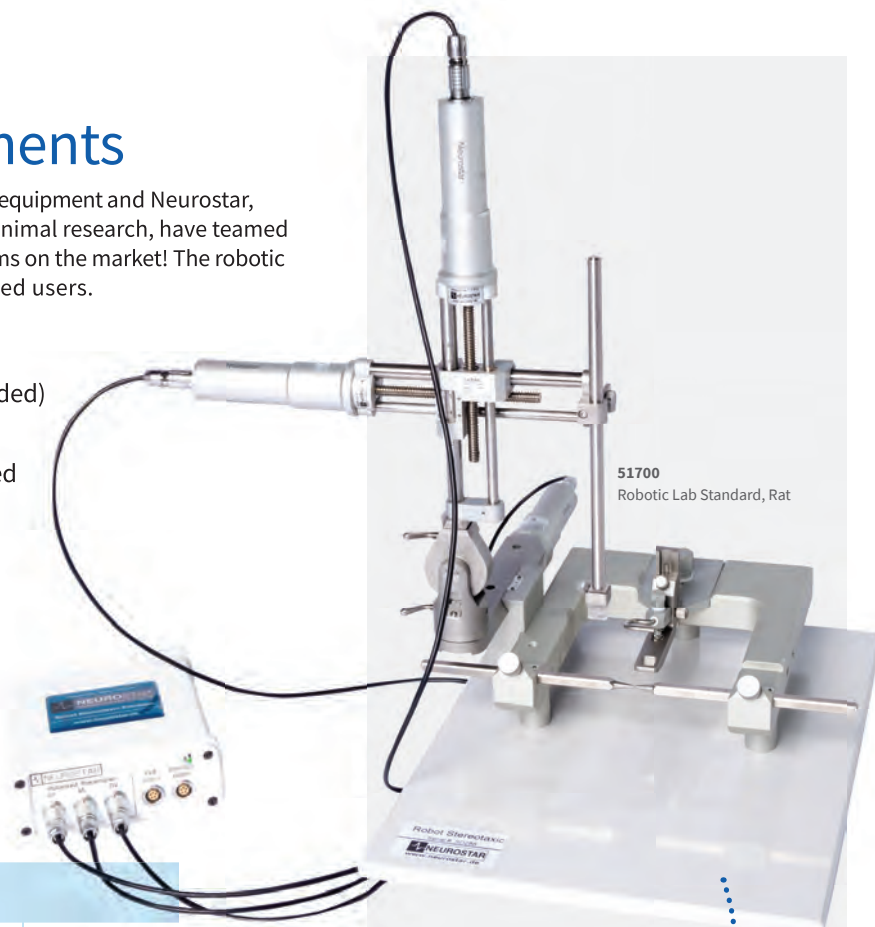
Robotic Stereotaxic Instruments

Neurostar Robot Stereotaxic Instruments

Stoelting, the leading manufacturer in stereotaxic equipment and Neurostar, the pioneers in robot stereotaxic solutions for animal research, have teamed up to produce the best robotic stereotaxic systems on the market! The robotic systems are ideal for both new and experienced users.

Features include:

- StereoDrive software (computer not included)
- Atlas integration (Rat or Mouse)
- Motorized movement, computer controlled
- Correction for alignment inaccuracies (tilt correction)
- Correction for variation of brain size
- Auto-calculated angle adjustment
- 1 micron precision



ROBOTIC STEREOTAXIC INSTRUMENTS

51700	Robotic Lab Standard Stereotaxic, Rat
51715	Robotic Lab Standard Stereotaxic, Mouse
51770	Robotic Lab Standard Stereotaxic, Rat and Mouse
51725M	Robotic Just for Mice Stereotaxic Instrument
51753	Robotic Dual Arm Lab Standard Stereotaxic, Rat

ADD-ON, ROBOTIC MANIPULATOR ARMS

51704	Robotic Manipulator Arm, ADD-ON, 3 Axis, LEFT
51706	Robotic Manipulator Arm, ADD-ON, 3 Axis, RIGHT

CONVERSION, ROBOTIC MANIPULATOR ARMS

51714	Robotic Manipulator Arm, CONVERSION, 3 Axis, LEFT*
51716	Robotic Manipulator Arm, CONVERSION, 3 Axis, RIGHT*

*Stoelting arms only—Call for quote for conversion of other stereotaxic brands.

Equipped
with **Warming Base.**

Call Stoelting for
dual and additional
configurations.

Drill and Microinjection Robot

The Drill and Microinjection Robot provides automated drilling followed by an intracranial injection using the same holder! This unique robotic stereotaxic is ideal for multiple injection sites with no tool exchange between the drill and injector.

Microinjection Features Include:

- Integrated into the StereoDrive software (computer not included)
- Define/Store protocols
- Also available as Glass-Capillary Nanoinjector (page 20)
- Atlas integration

Drill Features Include:

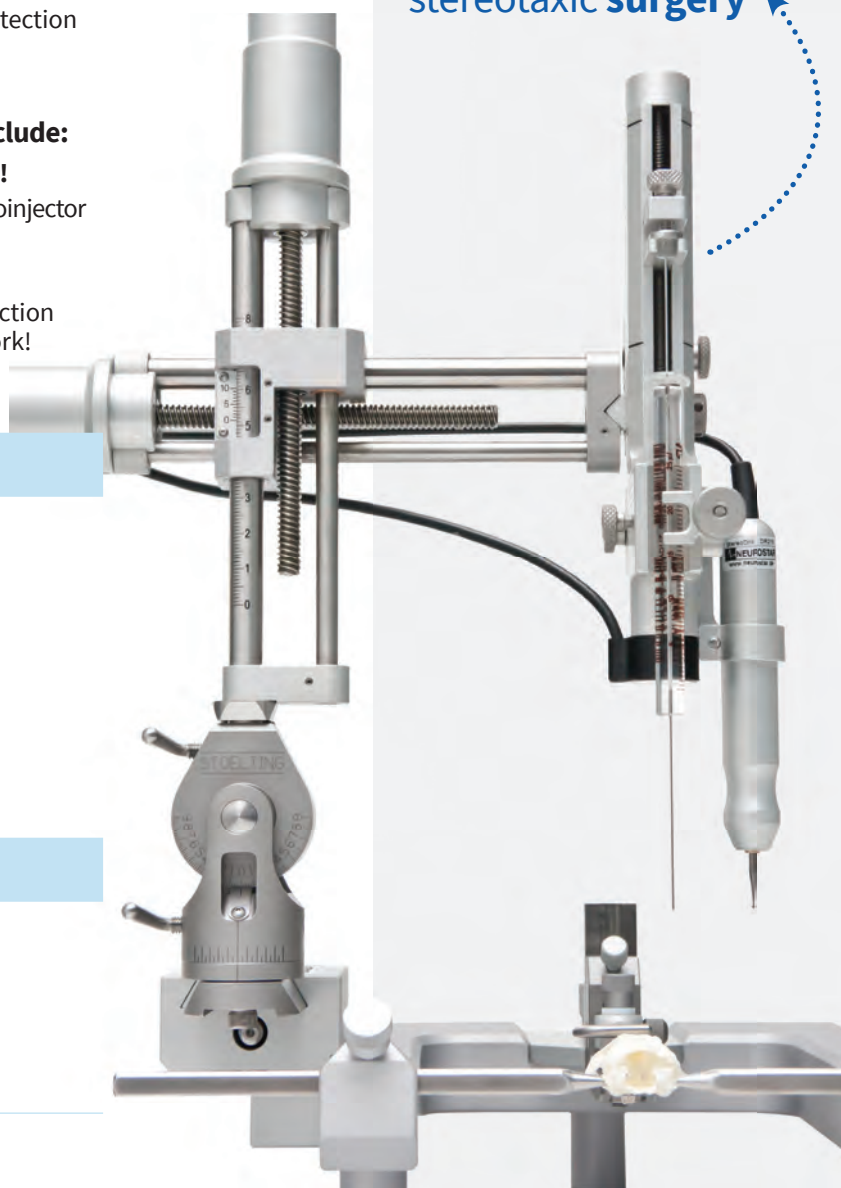
- Integrated into the StereoDrive software
- Depth controlled for safe drilling
- Auto stop function – automated dura detection avoids brain damage
- Atlas integration

Drill and Injection Robot Features include:

- All the above plus **NO TOOL EXCHANGE!**
- Software synchronization of Drill and Microinjector
- High throughput for drill and inject.
- Time saving and accurate.
- Automated sequencing for multiple injection sites – just program it and it does the work!

Compatible
with Stoelting's
Stereotaxic
Instruments!

Complete Robot
Systems for improved
stereotaxic surgery



COMPLETE STEREOTAXIC ROBOTS

51705	Drill and Microinjector Robot, Rat/Mouse
51707	Drill and Microinjector Robot, Rat
51710	Drill Robot, Mouse
51709	Injection Robot, Mouse
51708	Optogenetics Robot (including drill + injector), Mouse

ACCESSORIES FOR STEREOTAXIC ROBOTS

58632	Smart Remote Control
58633	Automated Synchronization Device for Drill and Injector
51722	Laptop Computer

Robotic Stereotaxic Accessories



Glass-Capillary Nanoinjector

The Glass-capillary Nanoinjector was specially designed to perform accurate ultraprecise nanoliter volume injections using glass capillaries that can be pulled to ultrathin tips. Wireless solution available.

In combination with the automated drill it can be used in the Drill and Nanoinjection Robot configuration.

Features include:

- Computer controlled, intuitive interface
- User defined injection volumes, starting from 1nL
- User defined injection rates, starting from 2nL/s
- Can be mounted on micromanipulators/stereotaxic
- Automated sequencing for multiple injection sites—just program it and it does the work!

CAPILLARY NANOINJECTOR

51711	Drill and Capillary Nanoinjection Robot, Mouse	
51712	Capillary Nanoinjection Robot, Mouse	
58646	Capillary Nanoinjector (wireless for micromanipulators)	



NEW! Smart BregmaFinder

Breakthrough innovation provides automated camera-driven zero-positioning of the probe over Bregma. The Smart BregmaFinder controls the robotic stereotaxic in order to precisely position the tip of the probe to Bregma.

Features include:

- Easy Bregma Detection
- Camera –Driven Positioning
- Experiment Monitoring
- Video Streaming
- Highest Accuracy

SMART BREGMAFINDER

58635	Smart BregmaFinder	
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Recommended Stereotaxic Accessories

**Stoelting
recommends these
stereotaxic accessories
to make the most
of your surgeries.**

59290 LED Stereotaxic Light | page 44



51449 Micromotor Drill | page 30



Rodent Warmers | page 38-39



52189 Stereotaxic Surgical Tool Kit | page 99



53311 Quintessential Stereotaxic Injector (QSI)™, Single Injection | page 32



**The Jackson
Laboratory**

*Leading the search
for tomorrow's cures*

Upcoming Event!

Join us for a 3-day workshop
learning surgical stereotaxic
techniques with mice at the
Jackson Laboratory!

**Visit www.jax.org/stereotaxic
for workshop schedule and
to sign up!**

Large Animal Stereotaxic Instruments

Parallel Rail Stereotaxic Instrument

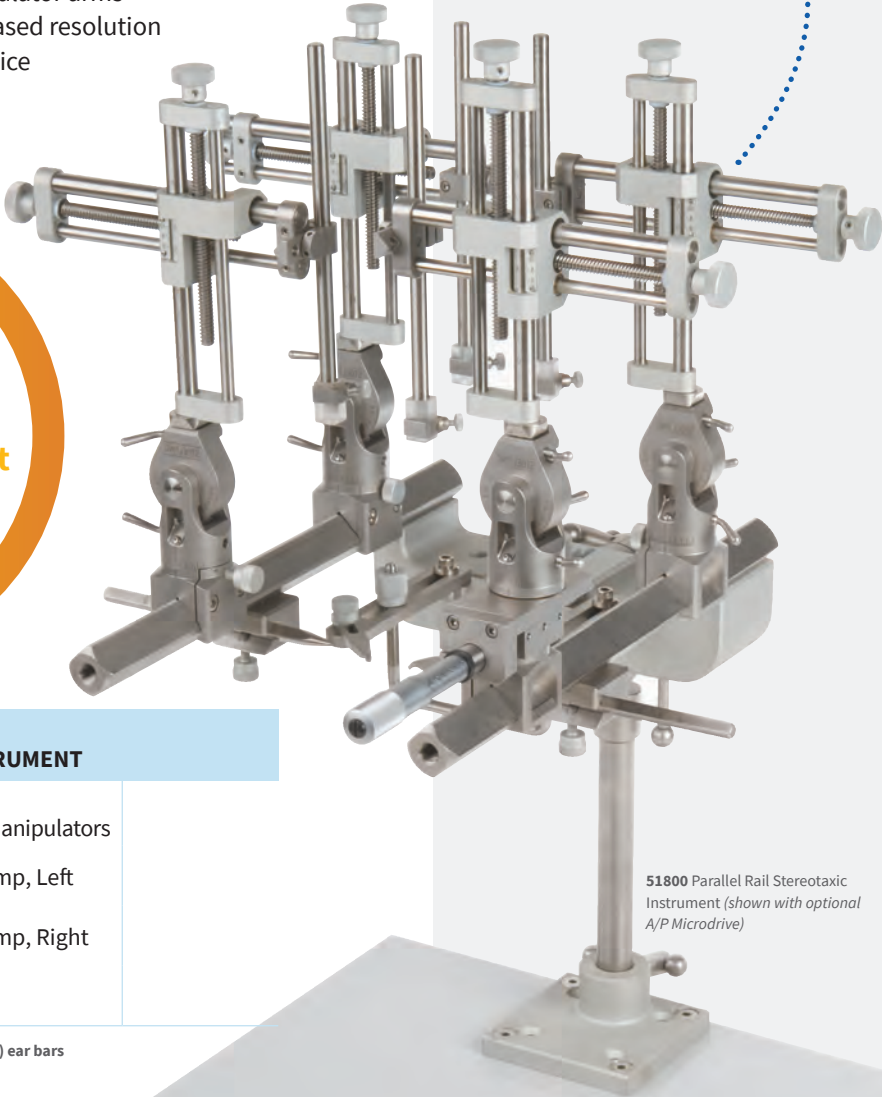
Stoelting's Parallel Rail Stereotaxic Instrument is designed for large animals, but can be used on almost any laboratory animal with Stoelting's selection of animal species adaptors (page 26). Includes Parallel Rail frame; cat/monkey or dog/monkey adaptor; four 100 micron 2-axes manipulator arms (2 right-hand, 2 left-hand); traditional (18°) ear bars; swivel stand; base plate, and four corner-clamp probe holders.

Parallel Rail Features

- Durable 2-axes positioning manipulator arms
- A/P microdrive available for increased resolution
- Adaptable for use with Rats and Mice



Platform base allows for off-table vertical adjustment.



PARALLEL RAIL STEREOTAXIC INSTRUMENT	
51800	Parallel Rail Instrument, Cat/Monkey Adaptor, 4 manipulators
51804	Manipulator on Rail Clamp, Left
51806	Manipulator on Rail Clamp, Right
51858	A/P Microdrive

51800 Parallel Rail Stereotaxic Instrument (shown with optional A/P Microdrive)

Traditional (18°) ear bars included. Non-Puncture (45°) ear bars available upon request.

NEW!

Lab Standard with Mouse Adaptor

Position easily and secure your animal gently

Stoelting's Mouse/Neonates Adaptor is designed for use with the traditional 'U' frame Stereotaxic instrument. It employs light, has Delrin Ear Bars with tapered points on one end, and rubber tips on the other, to facilitate surgery on mice and rat pups.

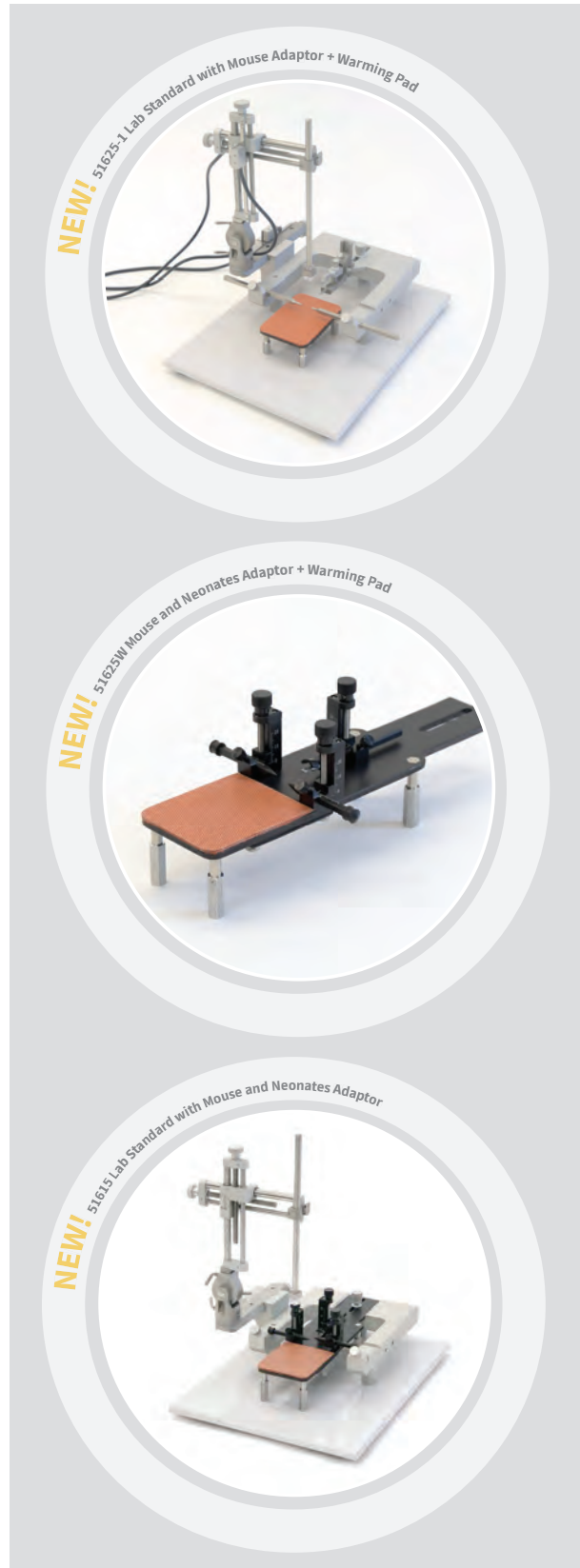
The NEW Stoelting Mouse Adaptor Kit (page 24) uses a more traditional low profile hold for the head and snout of the mouse. Non-Rupture (45°) Ear Bars are included. The 51625-1 Elevated Platform with warming pad is ideal for this adaptor.

LAB STANDARD WITH MOUSE & RAT ADAPTORS

51615	Digital Lab Standard with Mouse & Neonates Adaptor
51615T	Lab Standard Stereotaxic, Mouse
51925	Digital Lab Standard with Mouse & Neonates Adaptor
51925T	Digital Lab Standard Stereotaxic, Mouse
51625-1	Elevated Platform for Mouse with Warming Pad
51625W	Mouse & Neonates Adaptor with Warming Pad



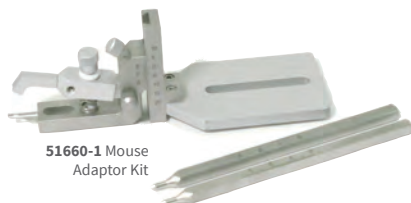
Add a **Rodent Warmer Control Box** to **utilize your Adaptors' warming feature!** See Rodent Warmer Control Box options on pages 38-39.



Stereotaxic Animal Adaptors

Transform your stereotaxic frame using our species-specific adaptors!

All adaptors are available for use with Parallel Rail Stereotaxic Instrument!

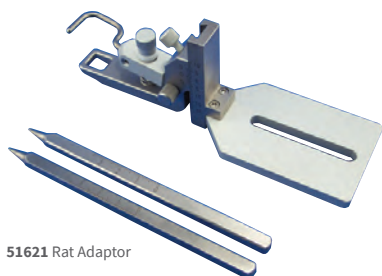


51660-1 Mouse Adaptor Kit

Mouse Adaptor Kit

The Stoelting 51660-1 Mouse Adaptor Kit includes a nose clamp assembly with small tooth bar for easy placement. Non-Rupture (45°) Ear Bars are included. The 51625-1 Elevated Platform is ideal for this adaptor and has a built-in warming pad.

51660-1	Mouse Adaptor Kit, (45°) Ear Bars
51625-1	Elevated Platform for Mouse Lab Standard

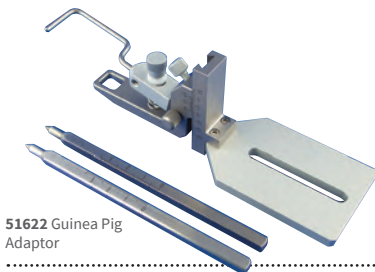


51621 Rat Adaptor

Rat Adaptor Kit

The 51621 Rat Adaptor Kit is included with all Lab Standard™ Stereotaxic Instruments for rats. The nose clamp assembly and either standard Traditional (18°) Ear Bars, or Non-Rupture (45°) Ear Bars are included.

51621	Rat Adaptor, Traditional (18°) Ear Bars
51620	Rat Adaptor, Non-Rupture (45°) Ear Bars

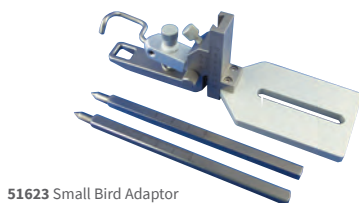


51622 Guinea Pig Adaptor

Guinea Pig Adaptor Kit

The Guinea Pig Adaptor includes the Non-Rupture (45°) ear bars required for guinea pigs. Also, the nose clamp reaches further back behind the incisors than on the rat adaptors. Compatible with all Lab Standard™ Stereotaxic Instruments.

51622	Guinea Pig Adaptor, Non-Rupture (45°) Ear Bars
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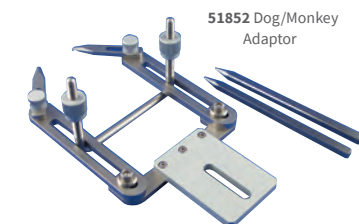


51623 Small Bird Adaptor

Small Bird Adaptor Kit

The Small Bird Adaptor Kit includes Non-Rupture (45°) Ear Bars, a beak support and "V" shaped beak clamp to secure the beak in place.

51623	Small Bird Adaptor, Non-Rupture (45°) Ear Bars
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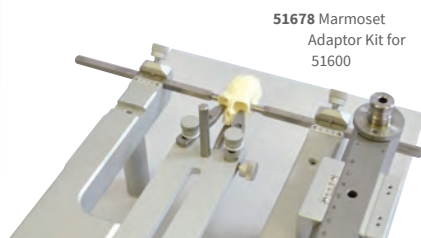


51852 Dog/Monkey Adaptor

Large Animal Adaptor Kits

The Dog/Monkey Adaptor is available only for the 51800 series stereotaxic instruments. Includes one set of Traditional (18°) Ear Bars.

51852	Dog/Monkey Adaptor, Traditional (18°) Ear Bars
51826	Cat/Monkey Adaptor, Traditional (18°) Ear Bars



51678 Marmoset Adaptor Kit for 51600

Marmoset Adaptor

The Marmoset Adaptor holds the marmoset head by means of a vertically adjustable palate bar with infra-orbital bars. The ear bars are Non-Rupture (45°) to prevent rotation of the head.

51678	Marmoset Adaptor, Non-Rupture (45°) Ear Bars
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Mouse & Neonates Adaptor

Stoelting's Mouse/Neonatal Rat Adaptor transforms the Lab Standard™ stereotaxic for rats into an instrument equipped for mouse and rat pup surgeries.

Model organisms with soft skulls, such as the mouse and the neonatal rat, are difficult to secure firmly in a traditional stereotaxic instrument. The stainless steel ear bars used for adult rats are too heavy to provide a secure hold without compressing the sides of the auditory canal into which to insert the ear bars.

Stoelting's Mouse and Neonatal Rat Adaptor employs light, Delrin® ear bars with tapered points on one end, and rubber tips on the other, to facilitate surgery on mice and rat pups.

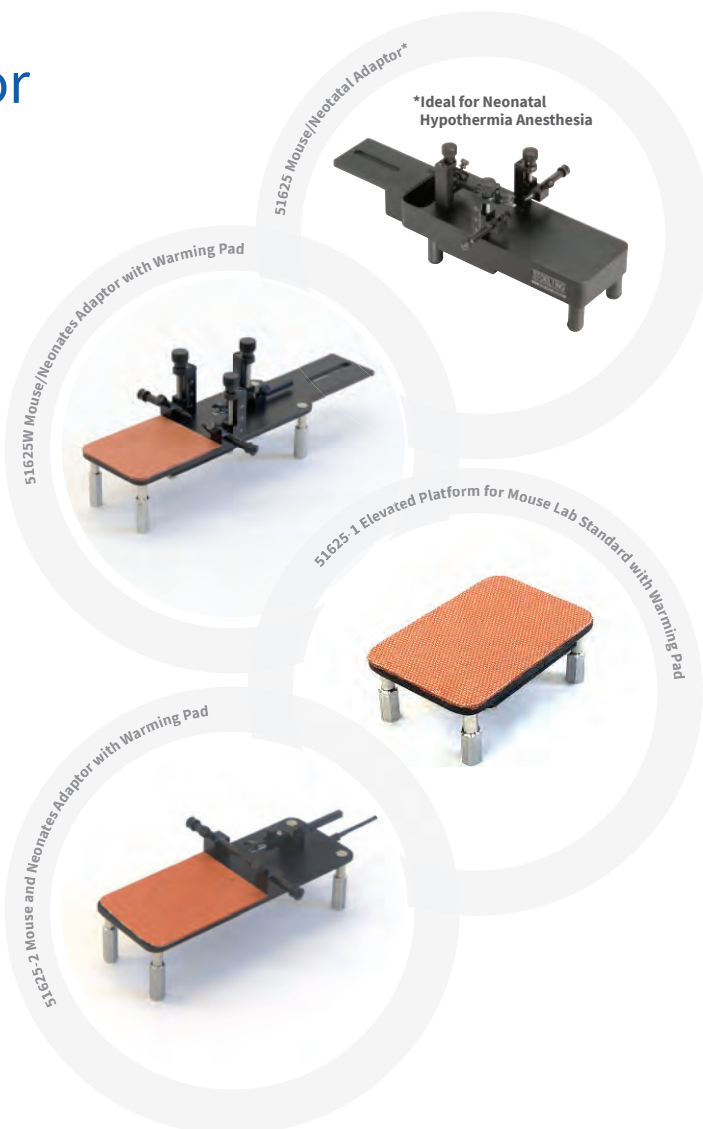
Ear bars' height can also be independently adjusted in height to easily level the skull. Laser engraved scales show the vertical positions of the ear bars. A tooth bar and nose clamp secures the nose.

"Triple point" securing of the animal's head in this adaptor makes it the most versatile mouse adaptor available. Set of two jaw holder cuffs included.

MOUSE AND NEONATES ADAPTOR

51625	Mouse and Neonates Adaptor
51625W	Mouse and Neonates Adaptor with Warming Pad
51625-1	Elevated Platform for Mouse Lab Standard
51625-2	Microscope Platform for Mouse and Neonates

See ear bar options on page 31.



Stoelting Spinal Cord Surgery Adaptors

Stoelting's Spinal Cord Adaptors utilize the manipulator and base plate of the U-frame stereotaxic instrument, enabling precise spinal preparations. The spinal column is secured by up to four, independent transverse process clamps, as well as a spinous process clamp.

Different sizes for Mouse or Rat!

Spinal Cord Surgery Adaptor Features

- For precise spinal surgery applications

STOELTING SPINAL CORD SURGERY ADAPTORS

51695	Rat Spinal Adaptor
51690	Mouse Spinal Adaptor

Versatile and economical instrument for stabilizing the spinal column.



Stereotaxic Probe Holders



The **51631 Corner Clamp** is included in the purchase of every stereotaxic frame or manipulator arm!



Probe Holders

Each Probe Holder has an 11mm square acrylic block, with grooves spaced 1 mm apart.

STANDARD PROBE HOLDERS

51631	Holder with Corner Clamp
51682	Horizontal Probe Holder, 90° (with Corner Clamp)* <i>*Not Shown</i>
51632	Holder with Side Clamp
51634	Holder with "C" Clamp

The Large Probe Holder is compatible with shaft diameters from 6.5-13 mm (0.5 inch). This will hold Hamilton™ Micro-syringes or Stereotaxic Drills. The Extra-Large Drill Holder holds 51449 Micromotor Drill (see page 30) or 13-26 mm (one inch) shafts.

LARGE PROBE HOLDERS

51633	Syringe Holder
51630	Drill Holder for 51449
51630-1	Drill Holder for 51555 (See page 30)

The Microdialysis Probe Holder is customized, at Stoelting, to your specification. The hole may be drilled to fit probes from 1.5 to 6.0 mm. Default size is 1.5mm. Please call or email for details.

MICRODIALYSIS PROBE HOLDER

51637	Microdialysis Probe Holder
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CANNULA HOLDERS

51636	Cannula Holder, Vertical
51636-1	Cannula Holder, Horizontal
51636-2	Cannula Holder for CMA 7, 11, and 12 Guide

The Double-Head Large Probe Holder has a large "C" gripping component at each end, with the "V" clamp attachment. Dual heads allow a secure hold for two different components. Clamps ¼"-½" (6.4 mm-12.7 mm) diameter.

DOUBLE-HEAD LARGE PROBE HOLDER

51638	Double-Head Large Probe Holder
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Probe and Syringe Holders **designed to use with any Stoelting Stereotaxic Manipulator Arm.**

Cannula Holders hold 3.4 mm Cannula Heads, as manufactured by Plastics One™, for cannula sets, and ALZET® Osmotic Pumps.

Probe Holder Features:

- Allows vertical adjustment
- Mount to right- or left-hand micromanipulator
- Compatible with most brands of stereotaxic manipulators

**Check out
Stoelting's Manual
Stereotaxic Injector
on page 33!**

Gas Anesthesia Masks



Gas Anesthesia Mouse

The Gas Anesthesia Mouse Mask provides for precise and secure positioning of an animal during anesthesia and surgery. The mask provides positioning of the animal head that is perfect, automatic and effortless! For use with Mouse Stereotaxic Instruments (pages 12-13) and Mouse/Neonatal Rat Adaptor (pages 23-25). *We recommend this be used with a gas scavenger device.*

GAS ANESTHESIA PLATFORM/MOUSE

51609M	Gas Anesthesia Mouse Mask
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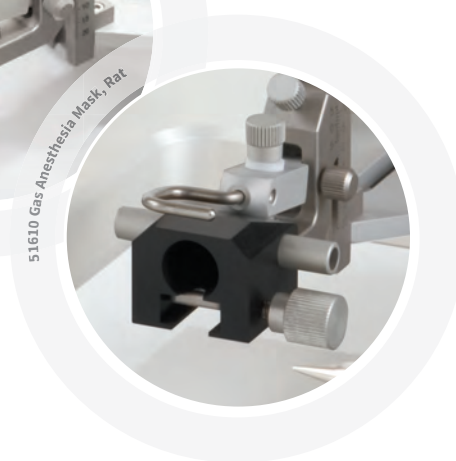
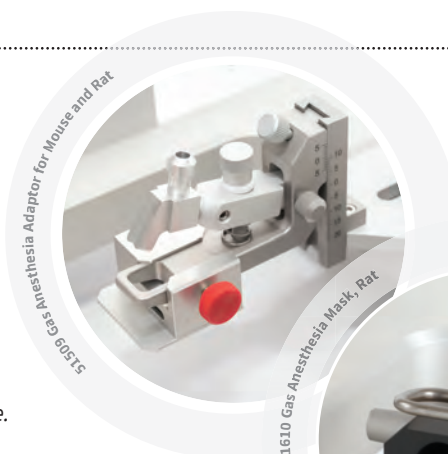
Gas Anesthesia for Mouse and Rat

Stoelting's Gas Anesthesia Adapter for Mouse and Rat provides an easy solution for gas delivery to a mouse or rat while still holding the animals head firmly for stereotaxic surgery. This items can be used with most mouse and rat adaptors associated with the Stoelting Lab Standard and Stoelting New Standard Stereotaxic Instruments.

We recommend this item be used with a gas scavenger device.

GAS ANESTHESIA FOR MOUSE AND RAT

51509	Gas Anesthesia Adapter for Mouse and Rat
51610	Gas Anesthesia Mask, Rat



The Jackson Laboratory

*Leading the search
for tomorrow's cures*

Upcoming Event!

Join us for a 3-day workshop learning surgical stereotaxic techniques with mice at the Jackson Laboratory!

Visit www.jax.org/stereotaxic for workshop schedule and to sign up!

Stereotaxic Ear Bars

PRODUCT IMAGE	PRODUCT NUMBER	DESCRIPTION	STEREOTAXIC FRAME	ANIMAL	PRICE
	51616	Dual-Sided Ear Bar (18° and 45°)	51500 series and 51600 series	Rat, Guinea Pig, Bird, Monkey, Dog	
	51611	Traditional Ear Bar (18°)	51600 series	Rat, Monkey, Dog	
	51811	Traditional Ear Bar (18°)	51800 series, 51850 series	Rat, Monkey, Dog	
	51612	Non-Rupture Ear Bar (45°)	51600 series	Rat, Guinea Pig, Chinchilla, Dog, Monkey	
	51812	Non-Rupture Ear Bar (45°)	51800 series, 51850 series	Rat, Guinea Pig, Chinchilla, Dog, Monkey	
	51613	Traditional Ear Bar (20°)	51600 series	Cat, Monkey	
	51813	Traditional Ear Bar (20°)	51800 series, 51850 series	Cat, Monkey	
	51614	Non-Rupture Ear Bar (20°)	51600 series	Cat, Monkey	
	51814	Non-Rupture Ear Bar (20°)	51800 series, 51850 series	Cat, Monkey	
	51611M	Non-Rupture Ear Bar	51600 series	Mouse	
	51617	Dual-Sided Ear Bar (18° and Rubber Tips)	51500 series	Mouse	
	51617-1	Dual-Sided Ear Bar (45° and Rubber Tips)	51500 series	Mouse	
	51648	Dual-Sided Ear Bar (18° and Rubber Tips)	51730 series, 51725 series, Mouse and Neonatal Rat Adaptor (51625)	Mouse	
	51647	Serrated Cuff Holders (set of 2)	51730 series, 51725 series, Mouse and Neonatal Rat Adaptor (51625)	Mouse	
	51649	Dual-Sided Ear Bar (45° and Rubber Tips)	51730 series, 51725 series, Mouse and Neonatal Rat Adaptor (51625)	Mouse	
	51649-1	45° and Serrated Cuff Holder	51730 series, 51725 series, Mouse and Neonatal Rat Adaptor (51625)	Mouse	

Surgical Drills

Micromotor Drill

Allows for a slender profile and easy hand-grip.

This high-speed, Micromotor Drill (up to 38,000 RPM) is configured for stereotaxic surgery, particularly in soft-skull animals, such as neonatal rats and mice. The compact control includes switches for Power On/Off, Forward or Reverse Rotation, with Manual or Foot Speed Control. Speed can be adjusted from low, to full speed, using the dial on the box; or with the foot pedal. Miniature Carbide Drill Bit Kit included (51448).

**High RPMs
ideal for Mice and
Neonatal Rats!**



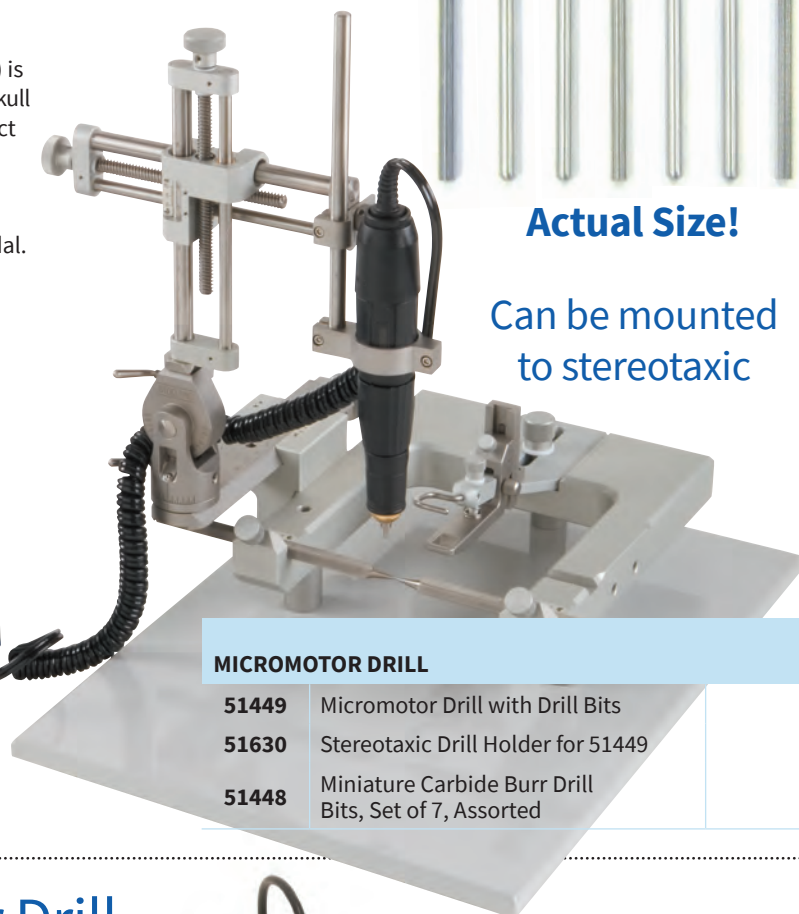
51449
Micromotor Drill

51448 Miniature Carbide
Burr Drill Bits



Actual Size!

Can be mounted
to stereotaxic



MICROMOTOR DRILL

51449	Micromotor Drill with Drill Bits
51630	Stereotaxic Drill Holder for 51449
51448	Miniature Carbide Burr Drill Bits, Set of 7, Assorted

Portable Micro Motor Drill

- 0-30,000 RPM
- Lightweight hand piece
- Lithium Ion rechargeable battery
- Drill bits included

The Portable Micro Motor High-Speed Drill is the ideal choice for stereotaxic drills. Equipped with a light-weight hand piece and pocket size control unit, the micro motor drill provides maximum portability for a variety of applications. Control unit features a digital rpm display and dial speed control for easy monitoring as you work. Speed adjustment up to 30,000 RPM. Run time is approximately 5 hours when unit is fully charged. *Optional Carrying Case and Nylon Carrying Pouch available online.* Miniature Carbide Drill Bit Kit included (51448).

PORTABLE MICRO MOTOR DRILL

51555	Portable Micro Motor High-Speed Drill with Drill Bits
51630-1	Stereotaxic Drill Holder for 51555



51555 Portable
High-Speed MicroMotor Drill

Carrying Case Options Available Online!



Flexible Shaft Drill

- Reliable performance
- Low vibration and noise
- Hands-free operation

A Lab Standard™ drill for over 25 years. The powerful motor and flexible shaft offer very low vibration and noise for long-term, reliable performance. The motor may be suspended from the optional 58652 Motor Support with Table Clamp. The heavy metal foot pedal allows exact speed control, and does not slide away from your foot. The drill includes motor, foot pedal, 1/2" handpiece with 3/32" collet, standard for dental drill bits, and a wrench for changing the collet. Miniature Carbide Drill Bit Kit included (51448).

FLEXIBLE SHAFT DRILL

58650	Flexible Shaft Drill
58652	Motor Support with Table Clamp
51633	Large Probe Holder*

*Required to mount drill to stereotaxic instrument. See page 27

Cordless Rechargeable Micro Drill

- Designed for balance and control
- No special tools required
- Up to 8 hours on a single charge

The Cordless Micro Drill is designed for research applications that require surgical drilling. Made of lightweight aluminum alloy for balance and control, the Micro Drill is powered by a rechargeable 6-volt nickel cadmium battery, and can function for up to 8 hours under normal operating conditions. Speed is 14,400 RPM. Drill comes with a hard plastic case with die-cut foam for convenient storage, a recharger, and 5 carbide steel burs.

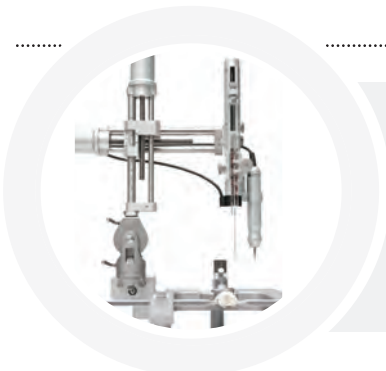
See Bone
Anchor Screws
& Dental Cement
on page 48

58610 Cordless Rechargeable Micro Drill



CORDLESS RECHARGEABLE MICRO DRILL

58610	Cordless Micro Drill
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Check out the Robot Stereotaxic Drill and Injection System—the complete automated, solution for positioning, drilling and injecting! Pages 18-20.

Quintessential Stereotaxic Injector (QSI™)

Stoelting Quintessential Stereotaxic Injector (QSI™)

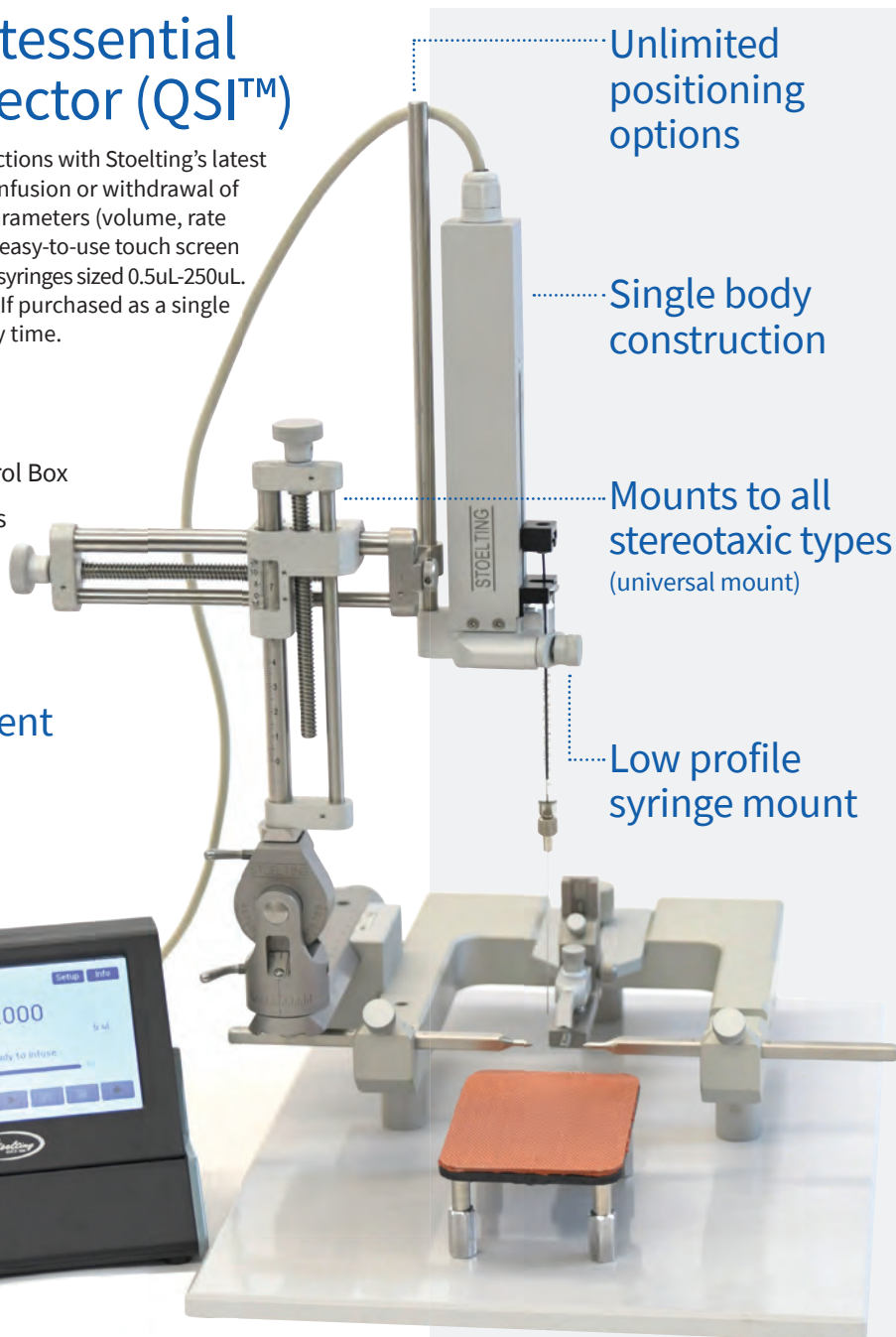
Control one or two independent injections with Stoelting's latest QSI Stereotaxic Injector. Automatic infusion or withdrawal of nL-μL volumes. Program injection parameters (volume, rate and syringe specifications) using the easy-to-use touch screen control box. Accommodates Hamilton syringes sized 0.5uL-250uL. Available as a single or dual injector. If purchased as a single injector, add a second injector at any time.

QSI™ Features:

- Easy-to-use Touch Screen Control Box
- Control Single or Dual Injections
- Preprogrammed Syringe Specifications
- Out-of-range warnings

***Stereotaxic Instrument sold separately**

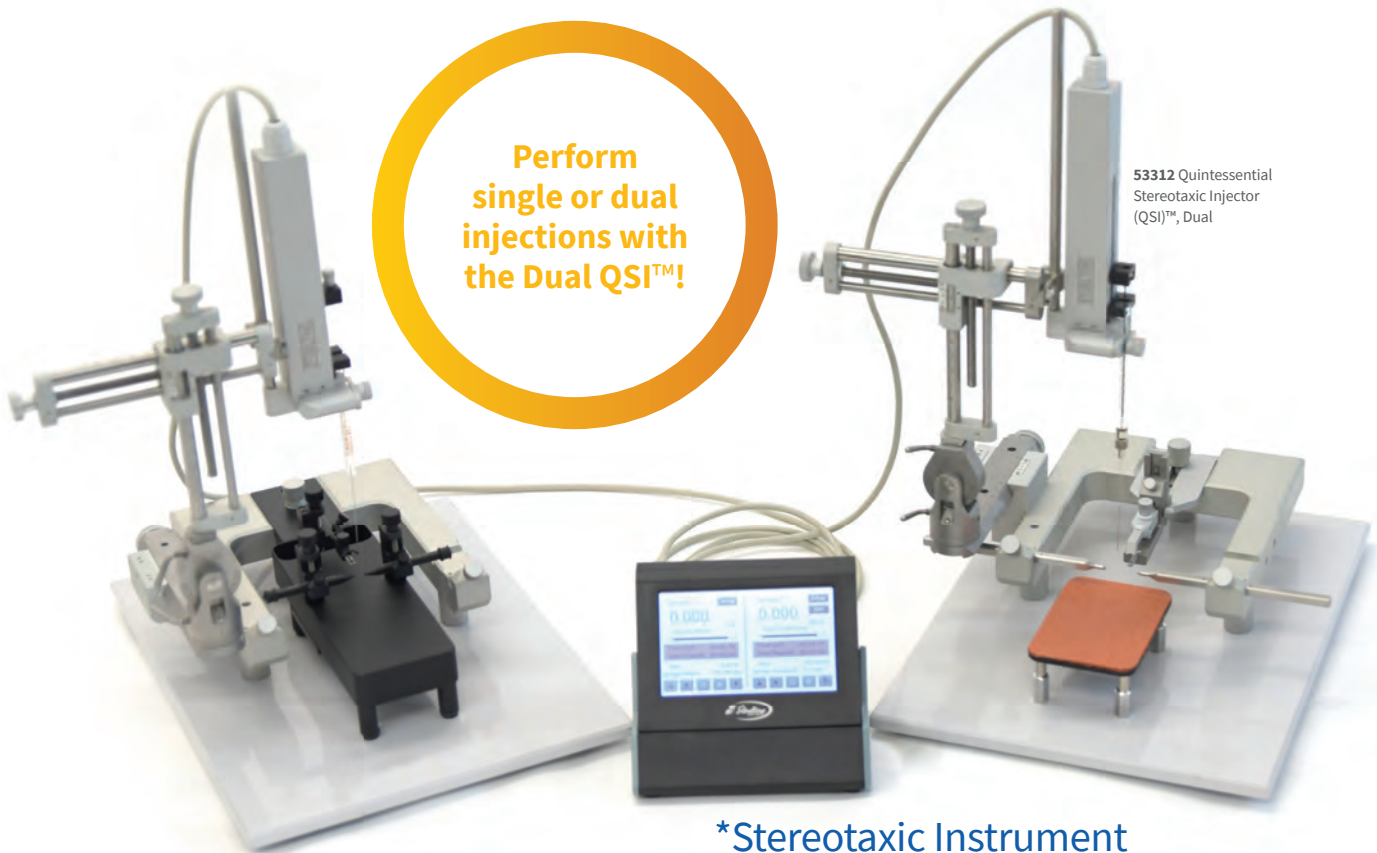
53311 Quintessential Stereotaxic Injector (QSI)™ Single Injection



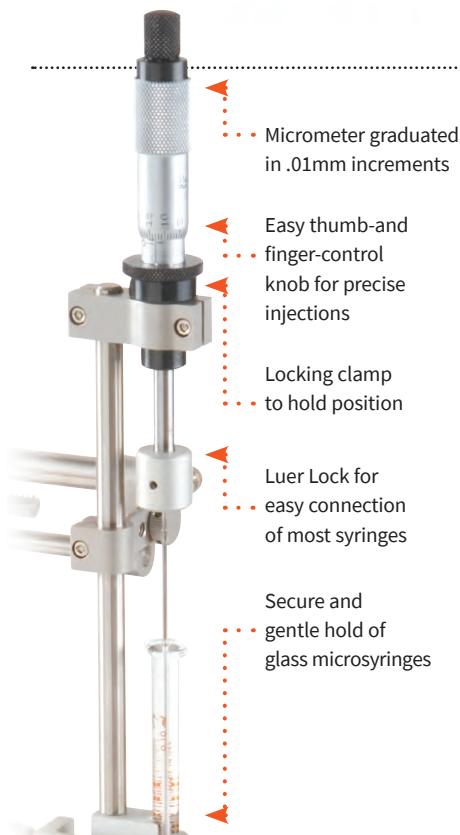
QUINTESSENTIAL STEREOTAXIC INJECTOR

53311	Quintessential Stereotaxic Injector (QSI)™, Single*
53312	Quintessential Stereotaxic Injector (QSI)™, Dual*
53316	Injector Head, Extra

QSI-2 and Manual Stereotaxic Injector



*Stereotaxic Instrument sold separately



- Micrometer graduated in .01mm increments
- Easy thumb-and-finger-control knob for precise injections
- Locking clamp to hold position
- Luer Lock for easy connection of most syringes
- Secure and gentle hold of glass microsyringes

Stoelting Manual Stereotaxic Injector

Stoelting's Manual Stereotaxic Injector provides an economical means of injecting or withdrawing a calibrated volume with simple, precise manual control. The injector has a universal adaptor for all Hamilton syringes, ranging from 0.5 to 250µl sizes and enables a wide range of volumes to be delivered. Includes Holder for mounting to Stereotaxic Instrument.

Manual Injector Features:

- Infusion/Withdrawal of nanoliter volumes
- Mounts directly to stereotaxic frame

STOELTING MANUAL STEREOTAXIC INJECTOR

51639

Stoelting Manual Stereotaxic Injector

Precision without the price tag

Microsyringes



Permanent Needle



Removable Needle



Luer-tip

Hamilton microsyringes are made in the U.S.A. using state-of-the-art technology and the finest glass. Please visit our website StoeltingCo.com for additional syringes.

Syringes have removable or permanent needles included with either a 22° point (sharp) or no point (blunt). Luer-tip ends have no needle included.

Economical Micro-Volume Syringes

Tight tolerances between the plunger and the barrel. For use with liquids.

NEEDLE	5μL (26G)	10μL (26G)	25μL (22G)	50μL (22G)	100μL	250μL	500μL
Removable-sharp	51104	51105	51107	51108	51109	51135	51136
Permanent-sharp	51094	51095	51097	51098	51099	51133	51134
Permanent-blunt	51189	51090	51091	51092	51093	51101	51102

Ultra Micro-Volume Syringes

Positive displacement syringe has a tungsten plunger wire that travels inside the needle. The needle acts as the syringe barrel; no dead volume. For use with liquids.

NEEDLE INCLUDED	0.5μL (25G)	1.0μL (25G)	2.0μL (25G)	5.0μL (24G)
Removable-sharp	51079	51085	51081	51083
Removable-blunt	51080	51086	51082	51084

Gastight Micro-Volume Syringes

These syringes have a precision-machined PTFE plunger tip that creates a leak-free seal. The plungers are replaceable. Recommended for use with gas or liquid samples.

NEEDLE INCLUDED	10μL (26G)	25μL (22G)	50μL (22G)	100μL (22G)	250μL (22G)	500μL (22G)
Removable-sharp	53479	53480	53481	53482	53483	53484
Removable-blunt	53485	53486	53487	53488	53489	53490
	53485-1 (32G)*	NA	NA	NA	NA	NA
Permanent-sharp	53469	53470	53471	53472	53473	NA
Permanent-blunt	53474	53475	53476	53477	53478	NA

*Recommended for Stereotaxic Surgeries. Includes 6pk of extra needles.

NEEDLE NOT INCLUDED						
Luer-tip	53431	53432	53433	53434	53435	53436

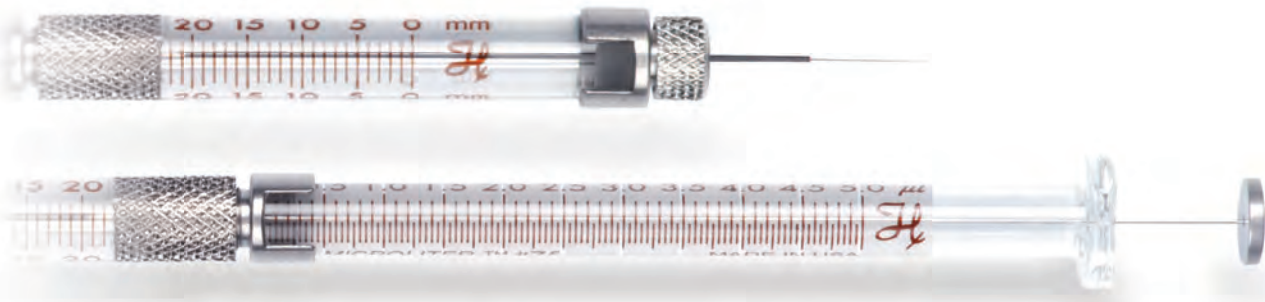
Neuros Syringe

Hamilton Neuros™ syringe provides unprecedented functionality for controlled animal injections. An industry first, the Neuros accurately dispenses 50 nL to 100 µL of liquid through an ultra-fine blunt point needle that delivers the sample directly into the injection site.

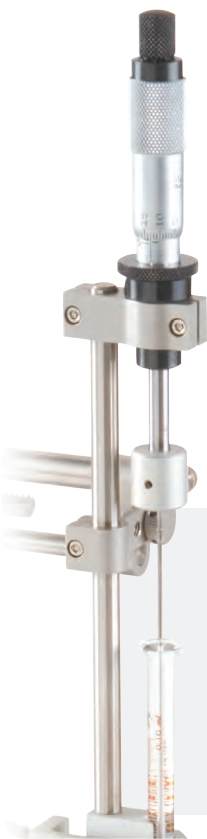
Developed specifically for the neurosciences, the Neuros minimizes injection site damage by increasing needle rigidity and delivering a microvolume of liquid to an exact location.

Benefits of the Neuros Design:

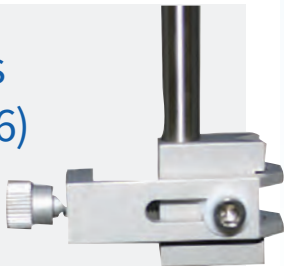
- Needle rigidity improves insertion path accuracy
- Minimal tissue damage reduces injection variability
- Reduced sample loss saves money and materials
- Fine gauge needle creates smaller injection sites
- Compatibility with most infusion pumps and stereotaxic holders means an easy integration into existing processes



NEUROS SYRINGE	
53493	0.5 µl Syringe Neuros Model, 32ga., Blunt
53494	1.0 µl Syringe Neuros Model, 32ga., Blunt
53495	2.0 µl Syringe Neuros Model, 30ga., Blunt
53496	5 µl Syringe Neuros Model, 33ga., Blunt
53497	10 µl Syringe Neuros Model, 33ga., Blunt
53498	25 µl Syringe Neuros Model, 33ga., Blunt
53499	50 µl Syringe Neuros Model, 33ga., Blunt
53430	100 µl Syringe Neuros Model, 33ga., Blunt
53437	Neuros Replacement Needles, 33ga, Blunt, 5-100 µl, 6/PK



Neuros Syringe is compatible with Stoelting's Large Probe Holder (Product No. 51633, page 26) or Stereotaxic Injectors (pages 32-33). Visit our website for more information.



Gas Anesthesia

LINK 7 Complete Active Surgical Gas Anesthesia System

Stoelting's Link 7 Gas Anesthesia System is your all-inclusive anesthesia solution for stereotaxic and general surgery! This easy-to-use, effective small animal anesthesia system includes three anesthesia stations for increased throughput. Excess anesthetic scavenged away by active charcoal canisters also included. Systems available as tabletop or mobile.

See more of our
gas anesthesia
products at
StoeltingCo.com!

53910 EVAC 4 Active Scavenger



Posi-vac Anesthesia Masks



53911 WAG Gas Filter

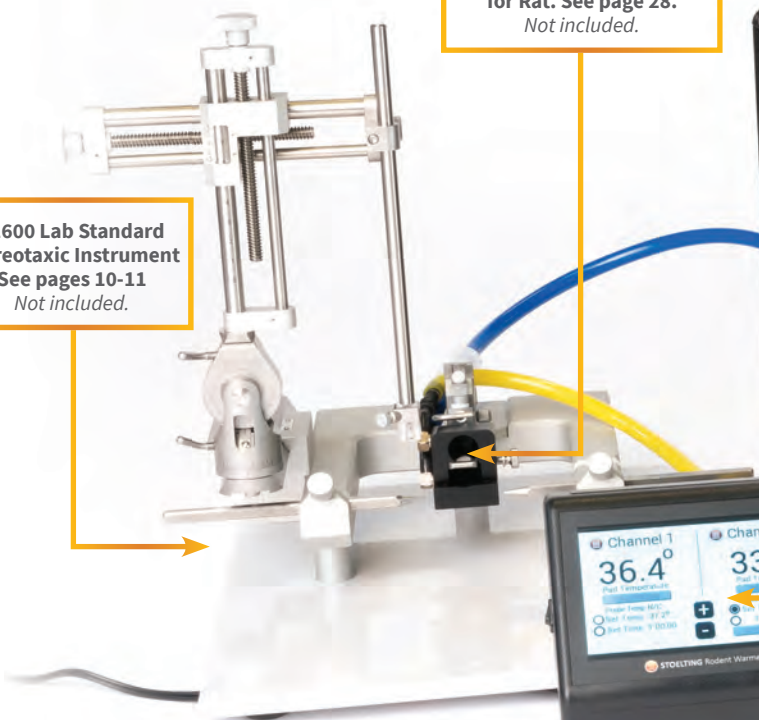


Slide Top Induction Chambers



51610 Gas Anesthesia Mask,
for Rat. See page 28.
Not included.

51600 Lab Standard
Stereotaxic Instrument
See pages 10-11
Not included.



53850 Rodent Warmer X2
See page 39.
Not included.



The complete system includes:

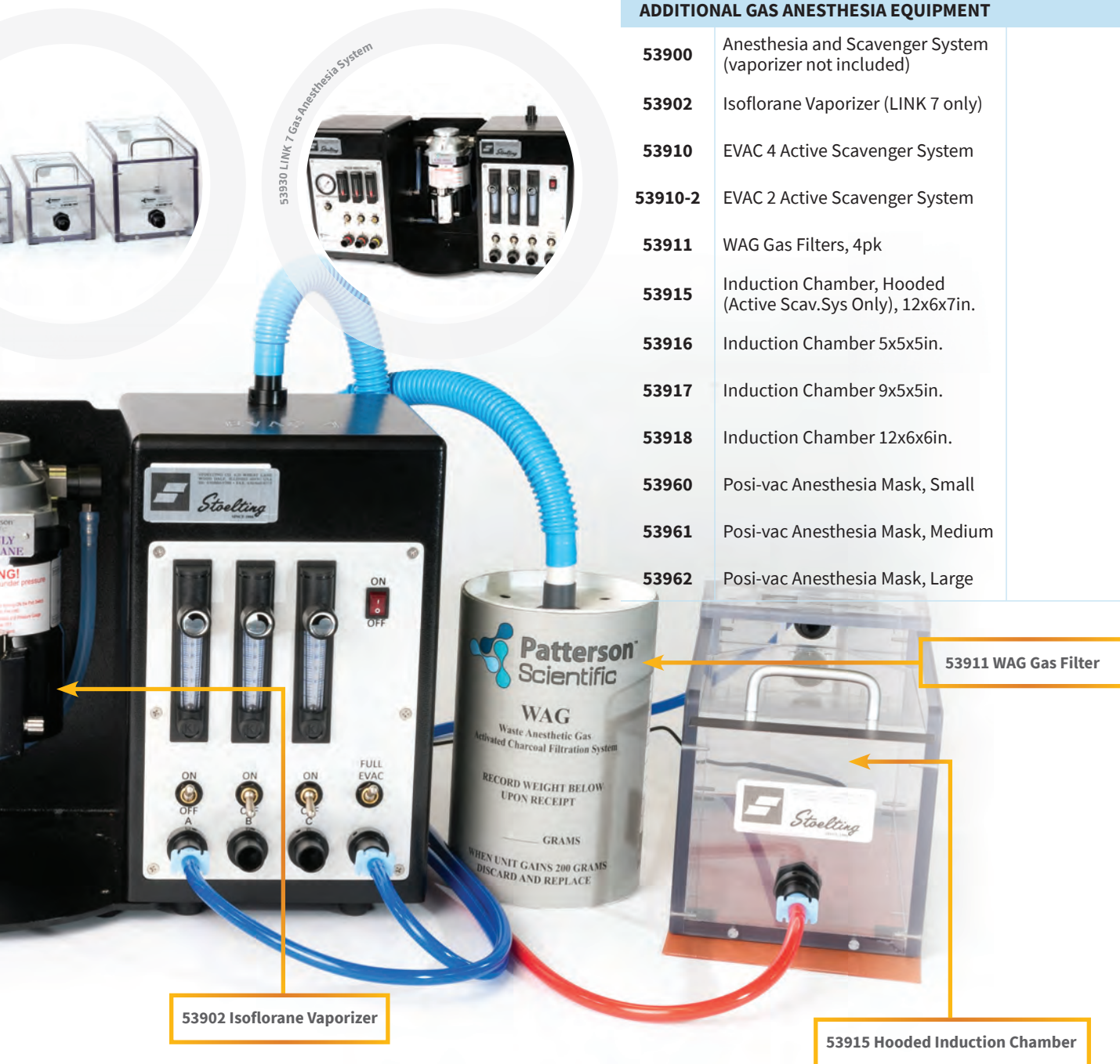
- Tabletop and/or Mobile Anesthesia System complete with Isoflurane Vaporizer
- EVAC 4 Active Gas Scavenger (53910 + 53911)
- Hooded Induction Chamber (53915)

COMPLETE ACTIVE SURGICAL GAS ANESTHESIA SYSTEM

53930	LINK 7 Gas Anesthesia System, Tabletop w/Induction Chamber
53931	LINK 7 Gas Anesthesia System, Mobile w/Induction Chamber
53940	Gas Anesthesia System, Tabletop w/Induction Chamber

ADDITIONAL GAS ANESTHESIA EQUIPMENT

53900	Anesthesia and Scavenger System (vaporizer not included)
53902	Isoflurane Vaporizer (LINK 7 only)
53910	EVAC 4 Active Scavenger System
53910-2	EVAC 2 Active Scavenger System
53911	WAG Gas Filters, 4pk
53915	Induction Chamber, Hooded (Active Scav.Sys Only), 12x6x7in.
53916	Induction Chamber 5x5x5in.
53917	Induction Chamber 9x5x5in.
53918	Induction Chamber 12x6x6in.
53960	Posi-vac Anesthesia Mask, Small
53961	Posi-vac Anesthesia Mask, Medium
53962	Posi-vac Anesthesia Mask, Large



Rodent Warmer X1

Visit
our website
for more
options!



Rodent Warmer X1

Use Stoelting's Rodent Warmer before, during and after surgical procedures to improve surgical outcome and overall longevity. Monitor and maintain animal temperature with three programmable settings: animal specific, timer or use with thermal probe. Available with mouse, rat or home-cage heating pad. *Rectal Thermal probe sold separately.*

Features:

- Easy to use dial control
- Preprogrammed animal temperatures
- Use with or without rectal probe (sold separately)
- Lightweight, small footprint

Add a **Rodent Warmer Control Box** to **utilize your Stereotaxic Base's warming feature!**

RODENT WARMER X1

53800	Stoelting Rodent Warmer Control Box with Cable* *For use with integrated Stereotaxic warming base
53800M	Stoelting Rodent Warmer X1 with Mouse Heating Pad
53800R	Stoelting Rodent Warmer X1 with Rat Heating Pad
53800C	Stoelting Rodent Warmer X1 with Cage Heating Pad
50304	Rectal Thermal Probe

53800M Warmer X1 with Mouse pad



53800C Warmer X1 with Cage pad and induction chamber



Heating Pad Options





Rodent Warmer X2 with TouchScreen Display

Use Stoelting's Rodent Warmer X2 before, during and after surgical procedures to improve surgical outcome and overall longevity. The integrated touch screen allows for easy programming and controls 2 independent heating pads simultaneously. Available with mouse, rat or home-cage heating pad. *Rectal Thermal probe sold separately.*

Features:

- Integrated touch screen for easy programming
- Controls two independent heating pads simultaneously
- Rectal probe (sold separately) for body temperature feedback
- Available with a combination of mouse, rat or cage size heating pads
- Heating pad included (mouse, rat or home cage)

RODENT WARMER X2

53850	Stoelting Rodent Warmer Control Box X2 with Cable
53850-MM	Stoelting Rodent Warmer X2 with Two Mouse Heating Pads
53850-RR	Stoelting Rodent Warmer X2 with Two Rat Heating Pads
53850-CC	Stoelting Rodent Warmer X2 with Two Cage Heating Pads
50304	Rectal Thermal Probe

*See website for additional combinations

Cautery



Low-Temperature Cautery Pens

These patented Aaron RAM™ cauteries have an impressive shelf-life and are quite simply the best cauteries ever made. With a variety of low temperatures and fine tips the surgeon is assured of precise pinpoint hemostasis. All disposable cauteries are individually packaged, sterile, 10 per box.

LOW-TEMPERATURE CAUTERY PENS

59015	Micro fine tip, 850°F (454°C)
59117	Fine tip, 1300°F (704°C)
59118	Adjustable fine tip, 700°-1200°F (371°-649°C)
59119	Elongated fine tip, 1100°F (593°C)

High-Temperature Cautery Pens

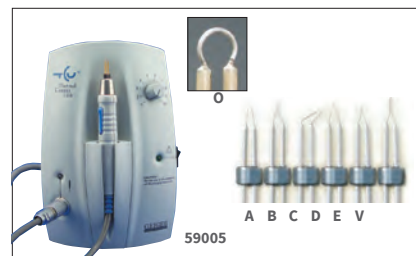
High-temperature cauteries are popular for many types of procedures including pinpoint hemostasis, controlling diffuse bleeders, vasectomies, and sculpting woven grafts. Individually packaged, sterile, 10 per box.

HIGH-TEMPERATURE CAUTERY PENS

59016	Fine tip 2200°F (1204°C)
59120	Loop tip 2200°F (1204°C)
59123	Adjustable fine tip, 1500-2100°F (816°-1149°C)
59125	Vasectomy tip, 1800°F (982°C)
59126	Fine tip micro, 2000°F (1093°C)
59127	Loop tip micro, 2000°F (1093°C)
59128	Vasectomy tip micro, 1600°F (871°C)

AC-Powered Cautery

This line-powered Cautery Instrument maintains desired temperature, from 300°F to 2200°F (149°C to 1204°C) consistently during tissue contact, and does not rapidly diminish. The slim, autoclavable handpiece, with six-foot cord, is convenient to maneuver into position. It accepts an assortment of reusable, non-sterile, autoclavable platinum tips.



A-Loop Tip

B-Fine Tip, Flat

C-Loop Tip, Angled

D-Ball Point E-Fine Tip

O-Circular Tip

V-Vasectomy Tip

ThermaLite® Disposable Tips have the quality of reusable with the convenience of disposable. Specifically designed for the AC-Powered Cautery Instrument, these disposable electrodes heat up faster than the reusable tips.

Reusable Tips have solid 1" brass shanks and the tips are made with 24-gauge platinum wire. They are available as A, B, C, D, E, O, and V tips. These general-purpose electrodes are supplied non-sterile, but may be autoclaved.

Visit website
for individual
tip options!

AC-POWERED CAUTERY PENS

59005	Cautery Instrument with Disposable Tips
59011	Optional Wall or Table Mounting Bracket



Battery-Operated Cautery

The perfect cauterizing tool, this battery-operated Cautery System provides two operating temperatures: 2200° F and 1300° F (1204° C and 704° C).

The easily replaceable, autoclavable, Nickel-Chrome tips require less power and provide longer battery life. The convenient battery spacer converts the handpiece from high temperature to low temperature. Replacement tips are sold in packs of 10.

AC-POWERED CAUTERY PENS

59017	Battery-Operated Cautery System
59018	Replacement Tips, 5mm (10/box)
59019	Replacement Tips, 10mm (10/box)



Sutures

Monofilament nylon, braided silk (permanent) sutures, and chromic gut and synthetic absorbable sutures, are now available from Stoelting. Sold in packages of 12, with semicircular (cutting) needles. All suture indicated for use in general soft tissue approximation and/or ligation and ophthalmic surgery. Only nonabsorbable suture indicated for use in cardiovascular and neurological procedures.

**Sutures for
all your surgical
needs!**

NON-ABSORBABLE

PRODUCT	PRODUCT NO.	MATERIAL	LENGTH	SIZE	NEEDLE	PRICE
Monofilament	50480	Nylon	30	4	19.0 mm	
	50481	Nylon	30	3	24.0 mm	
	50482	Nylon	30	2	26.0 mm	
Monomid	50483	Nylon	18	5	19.0 mm	
	50484	Nylon	18	4	19.0 mm	
	50485	Nylon	18	3	24.0 mm	
	50486	Nylon	18	2	26.0 mm	
Silk	50487	Silk-Braided	18	5	19.0 mm	
	50488	Silk-Braided	18	4	19.0 mm	
	50489	Silk-Braided	18	3	24.0 mm	
	50490	Silk-Braided	18	2	26.0 mm	

ABSORBABLE

Natural	50491	Chromic-Gut	30	4	19.0 mm	
	50492	Chromic-Gut	30	3	19.0 mm	
	50493	Chromic-Gut	30	2	24.0 mm	
	50494	Chromic-Gut	30	0	26.0 mm	
Synthetic	50495	Visorb (PGA)-Braided	30	5	19.0 mm	
	50496	Visorb (PGA)-Braided	30	4	19.0 mm	
	50497	Visorb (PGA)-Braided	30	3	19.0 mm	
	50498	Visorb (PGA)-Braided	30	2	24.0 mm	

Nylon exhibits:

- Uniform diameter of the suture
- Maximum flexibility of the strand
- Excellent and consistent knot security
- Minimal Memory

Silk exhibits:

- Smooth flow through tissue while maintaining optimal knot security

Chromic Gut exhibits:

- Purity of collagen for optimal tensile strength and in vivo performance
- Surface smoothness to facilitate knot run-down and knot strength

Visorb PGA exhibits:

- Excellent tensile strength throughout the critical wound-healing period
- Predictable absorption profile (absorption complete between 90-100 days)
- Excellent knot security

Wound Closure



59020 EZ Clip™ Kit, 9mm

EZ Clip™ Wound Closing Kit

Perfect for rapidly closing wounds, providing maximum holding force with minimal trauma. Much easier, and faster to use than the conventional sutures and needles. The Applier works like a staple gun to rapidly apply clips closures. The Applier will hold a single rack of 20, 9mm wound clips, which are held firm and ready to use by a non-rusting beryllium-copper spring. The Applier will provide maximum holding force with minimal trauma. There is no need of assistance to operate the applier or remover. When the wound is healed, clips are easily removed with the Remover. The EZ Clip™ Kit includes the Applier, case of 1,000, 9mm Wound Clips and Remover. *All parts are sold separately.*

Features:

- Autoclavable in the package!
- Smaller “teeth” provide better clamping and wound closure of the animal’s skin
- Racks of 20 clips are individually packed for easy handling
- The clips are pyrogen free and non-sterile
- Designed for use with mice and rats

**All components
can be ordered
separately! See
website
for details.**

**Stoelting exclusive packaging
of racks of 20 clips in autoclavable
polypropylene provides unmatched
ease of sterilization and storage.**

Reflex Wound Closing Kit-7mm

The 7mm Reflex Wound Closing Kit is ideal for mice and other small animals. Wound clips are pre-filled on a rack ready to be loaded in the 7mm Reflex wound clip applier. The 7mm Reflex Wound Closing Kit includes the Applier, box of 100 7mm Wound Clips, and Remover. All parts are sold separately.

- Easy-to-use
- Designed for use with mice

EZ CLIP™ WOUND CLOSING SYSTEM

59020	EZ Clip™ Kit, 9mm	
59043	Wound Clip Applier	
59046	Wound Clip Remover	
59027	9mm Wound Clips, Case/1000	
59022	9mm Wound Clips, Box/200	
59027-5	9mm Wound Clips, Case/5,000	

REFLEX CLIP WOUND CLOSING SYSTEM

59038	Reflex 7mm Wound Clip Kit	
59036	Wound Clip Applier	
59037	Wound Clip Remover	
59035	7mm Wound Clips, Box/100	
59034	7mm Wound Clips, Case/1,000	

Visit website for clip options.



51465 Cordless Shaver with #40 Blade

Surgical Shaver Kit for Mice and Rats

The Surgical Shaver Kit includes a powerful, cordless blade clipper providing easy mobility around animals. When fully charged, the clippers provide continuous operation for one hour. Kit includes: rechargeable clipper, #40 detachable blade set, charging stand, 2 Ni-MH battery packs, storage case, 4 oz. clipper oil.

Features:

- Rechargeable, cordless
- 15% faster and 10% smaller than comparable models
- Quiet operation

SURGICAL SHAVERS

51465	Cordless Shaver with #40 Blade **Recommended**
51482	Blade, Surgical/Shaving #40, Steel, Extra
51483	Blade, Surgical/Shaving #50 Blade, Steel, Extra



51470 Surgical Trimmer, Rats and Mice, Rechargeable

Rechargeable Surgical Trimmer Kit for Rats & Mice

The Surgical Trimmer is the shaver of choice for surgical prep! Kit includes a cordless, detachable blade trimmer, charger stand and #40 stainless steel blade for trimming around tight areas.

RECHARGEABLE SURGICAL TRIMMERS

51472	ProClip Ion Trimmer
51473	Replacement Blade for 51472 Trimmer

Cordless trimming made easy!



51484 Surgical Clipper

Two Speed Surgical Clipper

Professional two-speed clipper designed for extremely fast cutting! Includes: clipper, size 10 UltraEdge blade, and clipper oil.

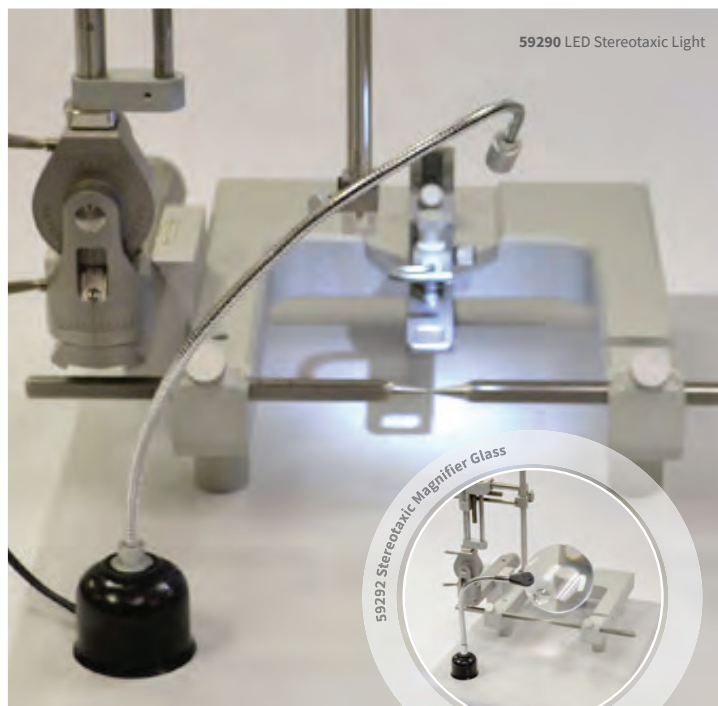
Features:

- Two speed operation: 3400 spm and 4400 spm
- Detachable blades for ease of changing and cleaning
- Maintenance free

TWO SPEED SURGICAL CLIPPERS

51485	Surgical Clipper, Two Speed, w/#10 & #40 blades
51483	Blade, Surgical/Shaving #50, Steel, Extra

Surgical Lights



Stereotaxic LED Light

Stoelting's Stereotaxic LED Light is useful for stereotaxic surgery or any location requiring LED light! On/Off switch option also available.

- Magnetic Base/Puck System to anchor Magnifier on non-magnetic surfaces
- Small base (1 5/8" diameter)
- 10" flex arm (25.4cm)
- Universal Power Supply included (110-220V)

STEREOTAXIC LED LIGHT

59290	LED Stereotaxic Light
59291	On/Off Switch for LED Stereotaxic Light
59292	Stereotaxic Magnifier Glass

Fiber-Lite® Illuminator

- UL, CE, and C-UL approved for global use
- All Fiber-Lite® Illuminators are backed with a 3-year warranty

Fiber-Lite Illuminators offer high-intensity, cold light illumination when coupled with any of our single or dual fiber optic light guides, which provides a lamp life of over 200 hours at full intensity. Each light guide measures 23 inches (58.4cm) long.



59258 Illuminator,
150W Single Gooseneck

FIBER-LITE® ILLUMINATOR

59258	Illuminator, 150W, Single Gooseneck
59259	Illuminator, 150W, Dual Gooseneck
59265	Light Probe Kit, 6 Probes
59212	Replacement Bulb

If your main power supply is 220V, add a "V" to the product number.

LED Coolight Illuminator

LED Coolight Illuminator has a long-life LED source, and is environmentally and fiscally responsible. It would take 125 replacement bulbs before the LED Coolight hit 75% capacity. Energy use is just one-third of a 150W halogen. LED lights have almost no infrared energy—they are truly a "cool light" source—unlike Halogen lamps that transmit IR heat that can damage a sample or specimen.



59253 LED Coolight
Illuminator

LED COOLIGHT ILLUMINATOR

59254	Coolight Illuminator, LED, Dual Gooseneck
59253	Coolight Illuminator, LED, Single Gooseneck **Recommended**



Alcohol Prep Pads

Sterile, nonwoven sponges are saturated with 70% Isopropyl Alcohol. These pads provide maximum absorbency for scrubbing and cleansing. Packaged individually in sealed pouch. Case of 4,000.

ALCOHOL PREP PADS

50974

Alcohol Prep Pads, Sterile, 11/8" x 23/8"
(2.86 cm x 6 cm), Case of 4,000



Sterile Disposable Scalpels

Stainless steel surgical blades mounted on plastic handles

with fluted finger-grips. Scalpel blade is safely protected by pull-off protector shield. Individually sealed in peel-apart, see-through package. Box of 10.

STERILE DISPOSABLE SCALPELS

52186

Size 10, Box of 10

52187

Size 11, Box of 10

52188

Size 15, Box of 10



Surgilube® Surgical Lubricant

Forms a transparent lubricating film that spreads readily. Non-irritating to tissue. Allows easy insertion of probes, catheters, surgical instruments, etc. Sterile and bacteriostatic. Box of 12.

SURGILUBE® SURGICAL LUBRICANT

50976

Surgilube®, 2 oz. (59 ml), Box of 12

50977

Surgilube®, 4 oz. (118.26 ml) Box of 12

Parafilm M® Laboratory Film

Parafilm M® is a semi-transparent, flexible thermoplastic. It molds and seals tightly around test tubes, flasks and irregular surfaces. The Dispenser/Cutter (51359) accommodates either 4" or 2" wide rolls, and a quick downward push cleanly cuts at the desired length.



Sharps Disposal Containers

Sharps Containers feature one-hand, one-step, no-touch sharps depositing. Containers feature horizontal loading. Non-mechanical sharps openings minimize tampering and contamination. Safe to autoclave or incinerate. See website for additional items.

SHARPS DISPOSAL CONTAINERS

52190

1 Gal. (3.8 L) Red with clear lid

52191

2 Gal. (7.6 L) Red with clear lid

52193

5 Qt. (4.7 L) Red with clear lid



PARAFILM M® LABORATORY FILM

51355

Parafilm® Roll 2"x250ft (5cmx76.2m)

51356

Case of 24, 2"x250ft (5cm x 76.2m)

51357

Parafilm® Roll, 4x125ft (10cm x 38.1m)

51358

Case of 12, Parafilm® Roll 4"x125 ft (10cm x 38.1m)

51359

Dispenser/Cutter

Surgical Preparation



Cone Masks

Provides the user with 99% filtration efficiency at 1.0μ along with cool, breathable comfort. Elastic band holds mask in place while nosepiece provides superior fit.

CONE MASKS

50955	Cone Mask, Blue, Case of 300
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Bouffant Caps

Made of lightweight, polypropylene fabric for comfort. Soft, non-irritating elastic band. Breathable, yet provides effective protection. Available in blue or white. Case of 500.

NURSES' BOUFFANT CAPS

50951	Bouffant Caps, 24" (61cm) Blue, Case of 500
50952	Bouffant Caps, 24" (61 cm) White, Case of 500



Shoe Covers

Tacky Strip—Tread improves traction on slick, slippery floors. Sanitary shoe covers feature a 2½" (6.35cm) wide tacky strip on the sole to keep wearer from slipping and sliding. Made of strong, abrasion-resistant sponbond polypropylene.

The full elastic top stretches to allow for easy on and off. Available in Universal and X-Large sizing. Blue with white tread.

SHOE COVERS

52076	Shoe Cover, Blue, Dispenser Pack, Universal Size, Case of 300
52078	Shoe Cover, Blue, Bulk Pack, Universal Size, Case of 300
52080	Shoe Cover, Blue, Vacuum Pack, Universal Size, Case of 1,000



Lab Coats

Disposable, cloth-like, microporous material provides general purpose protection. Economical and lightweight, yet strong and durable. Features elastic wrists and a 5-snap closure. Available in two, three or no pockets. More sizes and colors available online.

LAB COATS

52056	Lab Coat, White Medium, 3 pocket, Case of 30
52061	Lab Coat, Blue, Medium, 3 pocket, Case of 30
52066	Lab Coat, Purple, Medium, 3 pocket, Case of 30



Tie Back Face Masks

High filtration efficiency down to 0.6μ. Hypoallergenic innerfacing. Anti-Fog.

TIE BACK FACE MASKS

50956	Tie-back Mask, Blue, Foam backing, Box of 50
50957	Tie-back Mask, Blue, Foam backing, Case of 300
50958	Tie-back Mask, Green, No Foam Backing, Case of 300



Sterilizing Pouches

Self-sealing, compatible with steam, chemical vapor and EO Gas sterilizing processes.

STERILIZING POUCHES

50985	Sterilizing Pouches 3.5" x 5.25" (9cm x 13.3cm), Box of 200
--------------	---

More Pouches Available on our Website



Disposable Sterile Surgical Drapes

Used in minor surgical or therapeutic procedures where a sterile field or drape is required. Poly interlined, 3-ply construction of tissue/poly/tissue provides superior absorbency. Avoids possible moisture or bacteria migration.

SURGICAL DRAPES

50980	Surgical drape, fenestrated, 2¾" (7cm) opening, 18" x 26" (45.7cm x 66 cm), Case of 300
--------------	---



Triadine®

(Povidone/Iodine) Solution Non-irritating, non-staining, fast acting, antimicrobial solution. This antiseptic germicide kills all gram-positive and negative-bacteria, fungi, viruses, protozoa and spores.

TRIADINE® SOLUTION

50995	Povidone/Iodine solution, 4oz (118.26ml) bottle, Case of 72
50996	Povidone/Iodine solution, 8oz (236.52 ml) bottle, Case of 24
50997	Povidone/Iodine solution, 16oz (473.04 ml) bottle, Case of 12
50998	Povidone/Iodine solution, 32oz (946.07 ml) bottle, Case of 6
50999	Povidone/Iodine solution, Gallon (3.8 L) bottle, Case of 4



Sterile and Non-Sterile General-Use Sponges

Unique rayon and polyester nonwoven fabric provides strength, absorbancy and scrubbing texture. Sterile 2's have 2 sponges per envelope and 25 envelopes per box.

NU GAUZE™ STERILE SPONGES

50968	2" x 2" (5cm x 5cm), 4-ply Sterile 2's, Case of 30 boxes (50/box)
50970	4" x 4" (10cm x 10cm) Sterile Gauze, Case/1200
50971	2" x 2" (5cm x 5cm), Non-Woven Sponge Gauze, Case/8000

More Options Available on our Website.



Cotton-Tipped Applicators

Are non-sterile applicators, 6" long and packaged in autoclavable paper bags. Box of 1,000.

COTTON-TIPPED APPLICATORS

50975	Cotton-tipped applicators, box of 1,000
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Surgical Accessories



Bone Anchor Screws

Bone Anchor Screws anchor cannulae or other chronically-attached appliances to skull. Stainless Steel Screws #0-80, 1.59 mm O.D., 3.2 mm long. Package of 100.

Ideal for stereotaxic surgery!
Stereotaxic drills pages 30-31

BONE ANCHOR SCREWS

51457	Bone Anchor Screws, 100
51455-5	Drill Bit, 1.35mm, Pkg/6



Dental Cement

Dental Cement is used to affix stainless steel to skull or bone, for lab repairs, or for casting of hard acrylic parts. Can be cut, drilled or ground. Sets up in minutes. Kit includes items pictured.

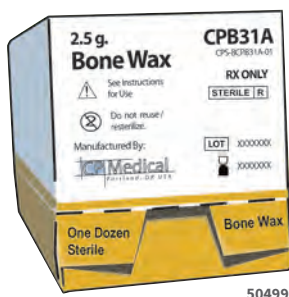
DENTAL CEMENT KIT

51458	Pink Opaque, 1 lb.
51459	Clear, 1 lb.
51456	Extra Solvent, 8 oz

These items are available only to the 48 contiguous states and via ground shipment.

Bone Wax

Bone Wax is used to help control bleeding from bone surfaces. Bone wax is a sterile mixture of beeswax and a wax-softening agent. It can achieve local bone homeostasis by acting as a mechanical barrier.



**Visit our website for
our complete line of Surgical
Supplies and Accessories!**

BONE WAX

50499	Bone Wax, Pkg/12
--------------	------------------

Instrument Cup

An instrument cup designed to arrange surgical instruments in the open position. Made of durable silicone, the instrument cup replaces glass and metal instrument pans, and won't damage delicate instrument tips. Large instruments rest against the bottom and side, while small instruments may be suspended from the scalloped brim. The Instrument Cup has a wide base (5 in/12.7cm) for stability, making it resistant to slippage on table surface.



INSTRUMENT CUP

52194	Instrument Cup
--------------	----------------



Vinyl Exam Gloves

Ideal for general purpose use. Great for applications such as light-duty surgery and general procedures.

- Powder & Latex Free
- Single Use
- Non-sterile
- Color: Blue

POWDER-FREE VINYL EXAM GLOVES

51026	Vinyl Exam Gloves,S, 100/box
51028	Vinyl Exam Gloves,M, 100/box
51030	Vinyl Exam Gloves,L, 100/box
51032	Vinyl Exam Gloves,XL, 100/box



Latex-Free Nitrile Exam Gloves

This is a nitrile glove with a soft and stretchy feel. Fully textured, it protects while providing a reliable grip.

- Powder & Latex Free
- Single Use
- Non-sterile
- Color: Blue

LATEX-FREE NITRILE EXAM GLOVES

52006	Nitrile Exam Gloves, XS, 100/box
51035	Nitrile Exam Gloves, S, 100/box
51037	Nitrile Exam Gloves, M, 100/box
51039	Nitrile Exam Gloves, L, 100/box
51041	Nitrile Exam Gloves, XL, 100/box
52004	Nitrile Exam Gloves, 2XL, 100/box



Vinyl Gloves with Aloe

Soothing aloe surrounds the hands to help protect from drying, chapping and cracking. Ideal for general purpose use. Great for applications such as light-duty surgery and general procedures.

- Powder & Latex Free
- Single Use
- Non-sterile
- Color: Green

VINYL EXAM GLOVES WITH ALOE

54153	Vinyl Gloves with Aloe, Small, 100/box
54155	Vinyl Gloves with Aloe, Medium, 100/box
54157	Vinyl Gloves with Aloe, Large, 100/box
54159	Vinyl Gloves with Aloe, XLarge, 100/box

****Recommended****



Nitrile Exam Gloves with Aloe

With an inner coating of aloe, Microflex® A+ Aloe® is a fully textured nitrile glove that helps protect hands from chapping, drying and cracking.

- Powder & Latex Free
- Single Use
- Non-sterile
- Color: Green

NITRILE EXAM GLOVES WITH ALOE

51063	Nitrile Gloves with Aloe, Small, 100/box
51065	Nitrile Gloves with Aloe, Medium, 100/box
51067	Nitrile Gloves with Aloe, Large, 100/box
51069	Nitrile Gloves with Aloe, X-Large, 100/box
52009	Nitrile Gloves with Aloe, 2X-Large, 100/box

Examination Gloves



E-Grip® Latex Exam Gloves

With a micro-textured satin finish, Microflex® E-Grip® provides enhanced gripping power and excellent tactile sensitivity. Beaded cuff for easy donning. 510(k) approved for medical use.

- Powder Free
- Single Use
- Non-sterile
- Color: Natural

E-GRIP® LATEX EXAM GLOVES

51009	E-Grip® Latex Exam Gloves, S, 100/box, 10 boxes
51011	E-Grip® Latex Exam Gloves, M, 100/box, 10 boxes
51013	E-Grip® Latex Exam Gloves, L, 100/box, 10 boxes
52002	E-Grip® Latex Exam Gloves, XL, 100/box, 10 boxes



Neoprene Sterile Exam Gloves

Thin design for superior tactile sensitivity with broad chemical splash resistance.

- Sterile
- Ideal for Double Donning
- Single Use
- Color: Blue

NEOPRENE STERILE EXAM GLOVES

51141C	Neoprene Sterile Gloves, Size 5.5, 4 bx/cs
51142C	Neoprene Sterile Gloves, Size 6, 4 bx/cs
51143C	Neoprene Sterile Gloves, Size 6.5, 4 bx/cs
51144C	Neoprene Sterile Gloves, Size 7, 4 bx/cs
51145C	Neoprene Sterile Gloves, Size 7.5, 4 bx/cs
51146C	Neoprene Sterile Gloves, Size 8, 4 bx/cs
51147C	Neoprene Sterile Gloves, Size 8.5, 4 bx/cs
51148C	Neoprene Sterile Gloves, Size 9, 4 bx/cs

MidKnight® Nitrile Exam Gloves



This is a nitrile glove with a soft and stretchy feel. Fully textured, with distinctive black color hides stains and provides contrast for improved visibility.

- Powder & Latex Free
- Single Use
- Non-sterile
- Color: Black

NITRILE EXAM GLOVES

54140	MidKnight® Nitrile Exam Gloves, XS, 100/box
54141	MidKnight® Nitrile Exam Gloves, S, 100/box
54144	MidKnight® Nitrile Exam Gloves, M, 100/box
54146	MidKnight® Nitrile Exam Gloves, L, 100/box
54148	MidKnight® Nitrile Exam Gloves, XL, 100/box
54150	MidKnight® Nitrile Exam Gloves, 2XL, 100/box



Evolution One® Latex Exam Gloves

Microflex® Evolution One® is a latex examination glove that provides reliable protection and comfort, with a secure grip.

- Powder Free
- Single Use
- Non-sterile
- Color: Natural

EVOLUTION ONE® LATEX EXAM GLOVES

54130	Evolution One® Latex Exam Gloves, XS, 100/box, 10 boxes
54132	Evolution One® Latex Exam Gloves, S, 100/box, 10 boxes
54134	Evolution One® Latex Exam Gloves, M, 100/box, 10 boxes
54136	Evolution One® Latex Exam Gloves, L, 100/box, 10 boxes
54138	Evolution One® Latex Exam Gloves, XL, 100/box, 10 boxes

Examination Gloves



Cobalt® Nitrile Exam Gloves

This is a nitrile glove with a soft and stretchy feel. Fully textured, it protects while providing a reliable grip, such as light-duty surgery and general procedures.

- Powder & Latex Free
- Non-sterile
- Single Use
- Color: Cobalt

COBALT® NITRILE EXAM GLOVES

54120	Cobalt® Nitrile Exam Gloves, XS, 100/box, 10 boxes
54122	Cobalt® Nitrile Exam Gloves, S, 100/box, 10 boxes
54124	Cobalt® Nitrile Exam Gloves, M, 100/box, 10 boxes
54126	Cobalt® Nitrile Exam Gloves, L, 100/box, 10 boxes
54128	Cobalt® Nitrile Exam Gloves, XL, 100/box, 10 boxes



Latex Exam Gloves with Aloe

With soothing aloe, Microflex®

A+ Aloe® latex gloves protect skin against drying, cracking and chapping. Ideal for workers who have frequent glove changes.

- Powder Free
- Non-sterile
- Single Use
- Color: Natural

LATEX EXAM GLOVES WITH ALOE

50817	Latex Gloves with Aloe, XS, 100/box, 10 boxes
51056	Latex Gloves with Aloe, S, 100/box, 10 boxes
51058	Latex Gloves with Aloe, M, 100/box, 10 boxes
51060	Latex Gloves with Aloe, L, 100/box, 10 boxes
51062	Latex Gloves with Aloe, XL, 100/box, 10 boxes

Perry Style Exam Gloves

This latex, powder-free surgical glove offers the essential protection needed for reliable performance.



- Sterile
- Micro-Textured Finish
- Single Use
- Color: Cream

PERRY STYLE EXAM GLOVES

51042C	Perry Style 42 Sterile Gloves, Size 6, 4 bx/cs
51043C	Perry Style 42 Sterile Gloves, Size 6.5, 4 bx/cs
51044C	Perry Style 42 Sterile Gloves, Size 7, 4 bx/cs
51045C	Perry Style 42 Sterile Gloves, Size 7.5, 4 bx/cs
51046C	Perry Style 42 Sterile Gloves, Size 8, 4 bx/cs
51047C	Perry Style 42 Sterile Gloves, Size 8.5, 4 bx/cs
51048C	Perry Style 42 Sterile Gloves, Size 9, 4 bx/cs

See more
glove options at
[www.StoeltingCo.com!](http://www.StoeltingCo.com)

For Surgical Supplies
and Accessories see
pages 36-101.

Inside Surgical Instruments

Full Product Line of Surgical Instruments | page 53-99



Surgical Accessories | page 101



NEW! Surgical Instrument Kit | page 99



Stoelting's **premiere** line of **surgical instruments** combines precision manufacturing with the **highest-grade** stainless steel.

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Check out our selection of Tungsten Carbide Instruments!

Micro-Dissecting Spring Scissors

All instruments
are shown in their
actual size!

Micro-Dissecting Spring Scissors are designed with small tips, useful for cutting delicate tissues during microsurgical procedures. Spring design eliminates handedness (can be used with left or right hand) and minimizes pressure required to close. Straight, curved and angled spring scissors available.

52130-00P

McPherson-Vannas Spring Scissors, 8.5cm (3.3in), 0.3mm Straight Tips



52130-01P

McPherson-Vannas Spring Scissors, 8.5cm (3.3in), 0.3mm Slightly Curved Tips



52130-02P

McPherson-Vannas Spring Scissors, 8.5cm (3.3in), 0.2mm Straight Tips



52130-03P

McPherson-Vannas Spring Scissors, 8.5cm (3.3in), 0.2mm Slightly Curved Tips



Micro-Dissecting Spring Scissors

All instruments
are shown in their
actual size!

52130-10P

Vannas Spring Scissors, 8.5cm (3.3in),
0.3mm Straight Tips

**52130-11P**

Vannas Spring Scissors, 8.5cm (3.3in),
0.3mm Slightly Curved Tips

**52130-18P**

Vannas Spring Scissors, 8.5cm (3.3in),
0.3mm Side Angled Tips

**52130-19P**

Vannas Spring Scissors, 8.5cm (3.3in),
0.3mm Bent Tips



Micro-Dissecting Spring Scissors

52130-20P

Vannas Spring Scissors, 8.25cm
(3.2in), 0.1mm Straight Tips



52130-31P

McPherson-Vannas Spring Scissors, 10cm
(3.9in), 0.3mm Slightly Curved Tips



52130-50P

Castroviejo Scissors, 9.5cm
(3.7in), 0.3mm Straight Tips



52130-58P

Castroviejo Scissors, 9.5cm
(3.7in), 0.3mm Angled Tips



Mayo Scissors

Straight-blade Mayo Scissors

Mayo Scissors are designed for cutting body tissue near the surface of a wound. Also, commonly used to cut suture. They have semi-blunt tips that distinguish them from other surgical scissors. Straight or curved blade Mayo scissors are available.



52136-50P

Mayo Scissors, 14.6cm (5.75in),
Straight Blades



Left-Handed

52136-55P

Mayo Scissors, 17cm (6.75in),
Straight, Left-Handed Blades



**Straight-Blade Mayo Scissors
Used to Cut Suture.**

52136-60P

Mayo Scissors, 14.6cm (5.75in),
Straight, Tungsten Carbide Blades

All instruments
are shown in their
actual size!

Curved-blade Mayo Scissors

Allows deeper penetration into the wound. Used to cut thick tissue.



52136-52P

Mayo Scissors, 14.6cm (5.75in),
Curved Blades



52136-61P

Mayo Scissors, 14cm (5.5in),
Curved, Tungsten Carbide Blades

Metzenbaum Scissors

Metzenbaum Scissors are used to cut delicate tissue like dura mater, connective tissue, ligated vessels and muscle. Straight or curved blade scissors of variable lengths available.



52134-01P

Metzenbaum Dissecting Scissors, 12.75cm (5in), Straight, Blunt Blades



52142-50P

Metzenbaum Scissors, 14.6cm (5.75in), Straight, Blunt Blades



Forget something? Add Stoelting's Dry Glass Bead Sterilizer to your order! Sterilizes instruments in 15 seconds or less. See Surgical Instrument Accessories starting on page 101.

All instruments
are shown in their
actual size!

Operating Scissors are used to cut tissue during surgical procedures. Constructed of high-quality German stainless steel, operating scissors provide infinite hours of precise cutting. Straight or curved blades with sharp, blunt or sharp/blunt tips varieties available.

Straight, Blunt/Blunt Blades



52134-45P

Light Operating Scissors, 12.1cm (4.75in),
Straight, Blunt/Blunt Blades



52138-03P

Operating Scissors, 12.75cm (5in),
Straight, Blunt/Blunt Blades



52138-15P

Operating Scissors, 14.5cm (5.7in),
Straight, Blunt/Blunt Blades

Operating Scissors

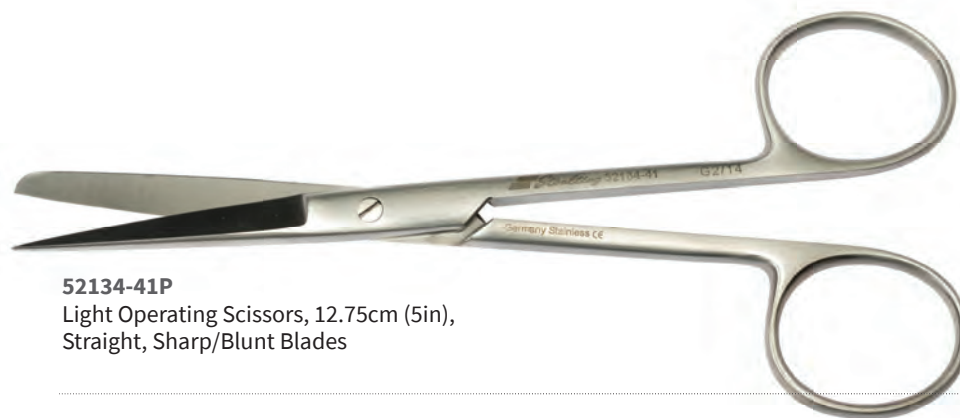
All instruments
are shown in their
actual size!



52138-27P

Operating Scissors, 16.5cm (6.5in),
Straight, Blunt/Blunt Blades

Straight, Sharp/Blunt Blades



52134-41P

Light Operating Scissors, 12.75cm (5in),
Straight, Sharp/Blunt Blades



52134-76P

Knapp Scissors, 10.80cm (4.25in),
Straight, Sharp/Blunt Blades



52136-00P

General Operating Scissors, 12.1cm (4.75in),
Straight, Sharp/Blunt Blades

52136-06P

General Operating Scissors, 12.75cm
(5in), Straight, Sharp/Blunt Blades

**52136-12P**

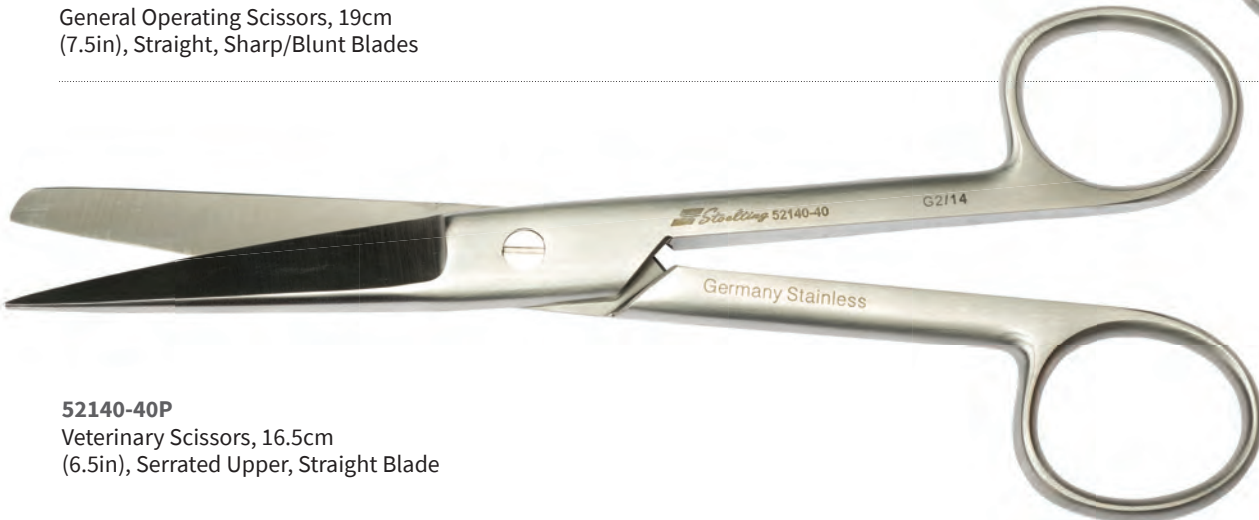
General Operating Scissors, 14.5cm (5.75in),
Straight, Sharp/Blunt Blades

**52136-30P**

General Operating Scissors, 19cm
(7.5in), Straight, Sharp/Blunt Blades

**52140-40P**

Veterinary Scissors, 16.5cm
(6.5in), Serrated Upper, Straight Blade



Operating Scissors

Straight, Sharp/Sharp Blades

52134-92P

Delicate Operating Scissors, 11.4cm (4.5in),
Straight, Sharp/Sharp Blades



All instruments
are shown in their
actual size!

52138-02P

Operating Scissors, 12cm (4.75in),
Straight, Sharp/Sharp Blades



52138-14P

Operating Scissors, 14.6cm (5.75in),
Straight, Sharp/Sharp Blades





52138-20P

Operating Scissors, 15.25cm (6in),
Straight, Sharp/Sharp Blades



52138-26P

Operating Scissors, 16.5cm (6.5in),
Straight, Sharp/Sharp Blades

Curved, Blunt/Blunt Blades



52134-46P

Light Operating Scissors, 12.75cm (5in),
Curved, Blunt/Blunt Blades

Operating Scissors

Curved, Sharp/Blunt Blades

**52134-42P**

Light Operating Scissors, 12.75cm (5in),
Curved, Sharp/Blunt Blades

Curved, Sharp/Sharp Blades

**52134-44P**

Light Operating Scissors, 12.75cm (5in),
Curved, Sharp/Sharp Blades

**All instruments
are shown in their
actual size!**

**52138-45P**

Operating Scissors, 14.5cm (5.7in),
Curved, Sharp/Sharp Blades

Dissecting Scissors

All instruments
are shown in their
actual size!

Dissecting Scissors are used to cut, separate and/or excise tissue during dissection procedures. Scissors with straight, curved or angled stainless steel blades with sharp or blunt tips available.

Straight, Dissecting Scissors

52132-02P

Micro-Dissecting Scissors, 8.5cm (3.5in),
Straight, 20mm, Sharp Blades



52132-10P

Micro-Dissecting Scissors, 8.5cm (3.5in),
Straight, Sharp Blades



52132-22P

Micro-Dissecting Scissors, 10.8cm (4.25in),
Straight, 24mm, Sharp Blades



52132-40P

Stevens Dissecting Scissors, 10.8cm (4.25in),
Sharp Blades



52132-42P

Stevens Dissecting Scissors, 10.8cm (4.25in),
Straight, Blunt

Dissecting Scissors



52132-29P

Micro-Dissecting Scissors, 11.5cm (4.5in),
Straight, Tungsten Carbide Blades

52132-24P

Micro-Dissecting Scissors, 11.5cm (4.5in),
Straight, Sharp, Left-Hand

52132-14P*

Large Ring Dissecting Scissors,
9.5cm (3.75in), Straight

***Part of Stoelting's Stereotaxic Instrument Kit**

[See page 99](#)

52132-16P

Large Ring Dissecting Scissors,
10.1cm (4in), Straight



52132-04P

Bonn Scissors, 8.5cm (3.5in) Straight,
Tungsten Carbide, Smooth Cut Blades

52132-06P Smooth Cut

Bonn Scissors, 8.5cm (3.5in) Straight,
15mm, Sharp/Sharp, Smooth Cut Blades

52142-85P

Littauer Suture Scissors,
11.81cm (4.65in) Straight



Curved Dissecting Scissors

All instruments
are shown in their
actual size!

52132-01P

BONN Scissors, 8.25cm (3.25in),
Curved, Sharp Blades



52132-03P

Micro-Dissecting Scissors, 8.5cm (3.5in),
Curved, Sharp Blades



52132-11P

Micro-Dissecting Scissors, 8.5cm (3.5in),
Curved, 23mm, Sharp Blades



52134-82P

Micro-Dissecting Scissors, 11.5cm (4.5in),
Slight Curve, Blunt/Blunt Blades



Dissecting Scissors

Curved & Angled Dissecting Scissors

All instruments
are shown in their
actual size!

52132-13P

Micro-Dissecting Scissors, 11.5cm (4.5in),
Curved, 24mm, Sharp Blades

**52132-23P**

Micro Dissecting Scissors, 10.8cm (4.25in),
Curved, Sharp Blades

**52132-35P**

O'Brien Dissecting Scissors, 9.5cm (3.75in),
Angular Blades



**52132-41P**

Stevens Dissecting Scissors, 10.75cm (4.25in),
Curved, Sharp Blades

**52132-43P**

Stevens Dissecting Scissors, 10.75cm (4.25in),
Curved, Sharp Blades

For a more precise cut,
try our Smooth Cut Scissors!

**52132-51P Smooth Cut**

Micro Dissecting Scissors, 9cm (3.5in),
Curved, Sharp/Sharp, Smooth Cut Blades

Fine Forceps

Fine Forceps are multipurpose forceps used for grasping, holding and retracting delicate tissues. Straight, curved and angled forceps available with, and without, serrated tips.

All instruments
are shown in their
actual size!

52102-02P

McPherson Forceps 8.5cm (3.3in),
Angled Tying Tips



52102-13P

Graefe Forceps, 7.25cm (2.85in),
Straight, Cross-Serrated Tips



52102-30P

Micro-Dissecting Forceps, 10.2cm (4in),
Straight, Serrated, 0.8mm Tips



52102-32P

Micro-Dissecting Forceps, 10.2cm (4in), Straight,
Serrated, 0.5mm Tips



52102-36P

Micro-Dissecting Forceps, 10.2cm (4in),
Slight Curve, 0.5mm Tips



52102-35P*

Micro-Dissecting Forceps, 10.2cm (4in),
Curved, Serrated, 0.8mm Tips

***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99



52102-38P

Micro-Dissecting Forceps, 10.2cm (4in),
Full Curve, 0.5mm Tips



52102-37P

Micro-Dissecting Forceps, 10.2cm (4in),
Full Curve, 0.8mm Tips



52102-39P

Micro Dissecting Forceps, 10.2cm (4in),
Serrated Angle, 0.8mm Tips



1x2 Teeth Pattern

52102-41P*

Micro-Dissecting Forceps, 10.2cm (4in),
1x2 Teeth Pattern, 0.5mm Tips

***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99



52102-54P

Moloney Forceps, 11.75cm (4.6in),
Slight Curve, Serrated Tips



1x2 Teeth Pattern

52102-79P

McCullough Forceps, 9.8cm (3.85in),
Cross Serrated, 1.5mm Tips



52102-80P

Bonnacolto Forceps, 10.2cm (4in),
Cross Serrated, 1.2mm Tips



52102-81P

Bracken Iris Forceps, 10.2cm (4in),
Curved, Fine, Cross Serrated



52102-82P

Nugent Forceps, 10.8cm (4.25in),
Angled, Smooth, 1.2mm Tips



Fine Forceps with Teeth

All instruments
are shown in their
actual size!

These **Fine Forceps** are designed with sharp serrated tips called teeth. The teeth of the forceps help to grasp, hold and retract large, superficial tissue. Straight or curved forceps with interlocking teeth patterns of 1x2, 2x3 or 3x4 available.



1x2 Teeth Pattern

52102-15P

Graefe Forceps, 7.25cm (2.875in),
Straight Tips, 1x2 Teeth Pattern



1x2 Teeth Pattern

52102-60P

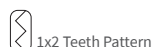
Graefe Forceps, 10.2cm (4in),
Full Curve, 1x2 Teeth Pattern, 0.5mm Tips



1x2 Teeth Pattern

52102-40P

Micro-Dissecting Forceps, 10.2cm (4in),
Straight, 1x2 Teeth Pattern, 0.8mm Tips

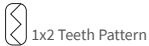


1x2 Teeth Pattern

52102-41P

Micro-Dissecting Forceps, 10.2cm (4in),
Straight, 1x2 Teeth Pattern, 0.5mm Tips





52102-42P

Micro-Dissecting Forceps, 10.2cm (4in),
Slight Curve, 1x2 Teeth Pattern, 0.8mm Tips



52102-77P

Steven Forceps, 10.2cm (4in),
Straight, 1x2 Teeth Pattern, 1mm Tips



52106-40P

Semken Forceps, 12.7cm (5in)



52106-42P

Semken Forceps, 12.7cm (5in),
Straight, 1x2 Teeth Pattern, 1.2mm Tips



Forceps with Teeth

Tissue forceps are used for compressing or grasping tissues during surgical procedures.

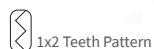
All instruments
are shown in their
actual size!



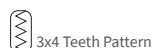
52108-60P
Tissue Forceps, 11.5cm (4.5in),
1x2 Teeth Pattern



52108-62P
Tissue Forceps, 12.75cm (5in),
1x2 Teeth Pattern



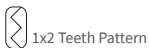
52108-69P
Tissue Forceps, 14.5cm (5.75in),
1x2 Teeth Pattern



52108-80P
Tissue Forceps, 12.75cm (5in),
3x4 Teeth Pattern



Adson Forceps are designed with sharp teeth for grasping and holding superficial tissue. Adson forceps with interlocking teeth patterns of 1x2 or 2x3 are available. Not recommended for use with delicate tissues, as sharp teeth may cause damage.



52104-33P
Adson Forceps, 12cm (4.75in),
1x2 Teeth Pattern, Serrated Tips



Adson forceps
are commonly
known as
skin forceps



52104-34P
Adson Forceps, 12cm (4.7in),
2x3 Teeth Pattern



Brown-Adson Forceps, or pickups, are used to grasp and hold superficial or delicate tissues. Interlocking side teeth provide a secure grasp without the need to apply increased pressure.



52104-31P
Brown-Adson Forceps, 12cm (4.7in),
Side Teeth Pattern

Dumont Style Forceps/Tweezers

Dumont Style Forceps are constructed of the highest-quality stainless steel and are used in procedures requiring precise technique. Commonly referred to as Jeweler's Forceps, Dumont Forceps are used for grasping fine, delicate tissues like nerves and small vessels.

**52100-02P**

Stainless Steel Forceps, 12cm (4.75in),
Straight Tips

**52100-81P***

Stainless Steel Forceps, 11cm (4.3in),
Straight Tips

***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99

Kuehne Pan Forceps are specialized forceps, designed with flattened tips, best suited for lifting and transporting microscope slides and glass cover slips.

All instruments
are shown in their
actual size!



52109-59P

Kuehne Pan Forceps, 10.2cm (4in),
Straight, Flat Jaw



52109-60P

Kuehne Pan Forceps, 10.2cm (4in),
Angled

Dressing Forceps

Dressing Forceps are used to remove gauze or sutures. Straight-tipped forceps with, or without, serrations available.

All instruments
are shown in their
actual size!



52109-30P
Thumb Dressing Forceps, 11.5cm (4.5in),
Delicate Tips



52109-36P
Splinter Forceps, 10.2cm (4in),
Straight, Fine Tips



52109-37P
Splinter Forceps 11.5cm (4.5in),
Fine Tips



52108-83P
Thumb Dressing Forceps
12.75cm (5in)



52109-23P
Thumb Dressing Forceps
11.5cm (4.5in)



52109-25P
Thumb Dressing Forceps,
14.0cm (5.5in)

Forceps and Instrument Cup

Hegenbarth Clip Applying Forceps
are used to apply wound clips to close
surgical incisions.

See page 42
for Wound Closing
Kits!

All instruments
are shown in their
actual size!



52184-10P
Hegenbarth Clip Applying Forceps,
13cm (5in)

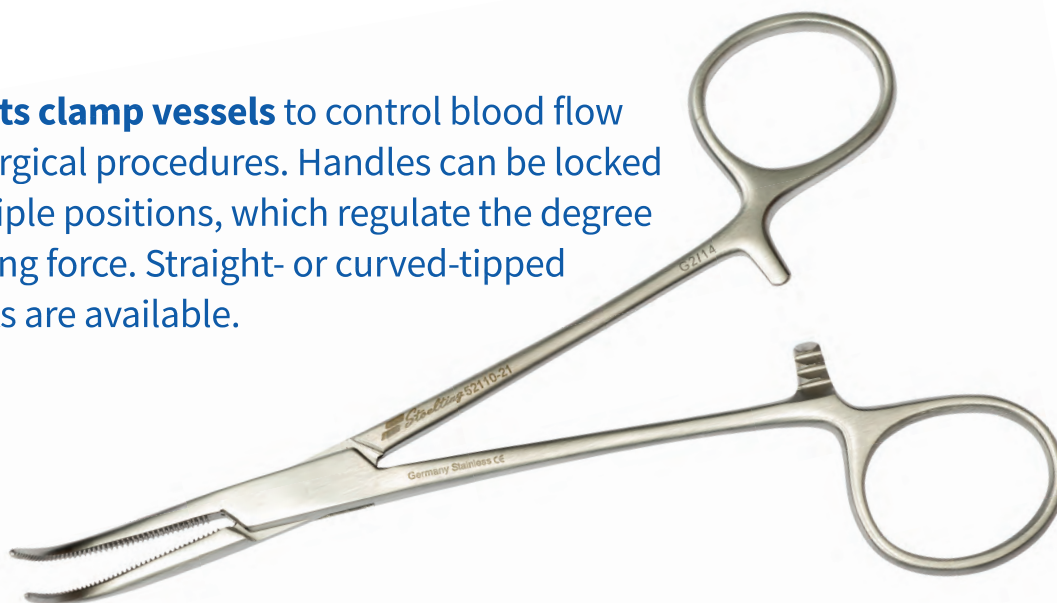
Forceps Storage to properly
store delicate forceps.

52107-00P
Stainless Steel Forceps Storage, (8x4.5x2 in)



Not shown in actual size.

Hemostats clamp vessels to control blood flow during surgical procedures. Handles can be locked into multiple positions, which regulate the degree of clamping force. Straight- or curved-tipped hemostats are available.



52110-21P

Reynolds Hemostatic Forceps,
14cm (5.5in), Full-Curved Tips

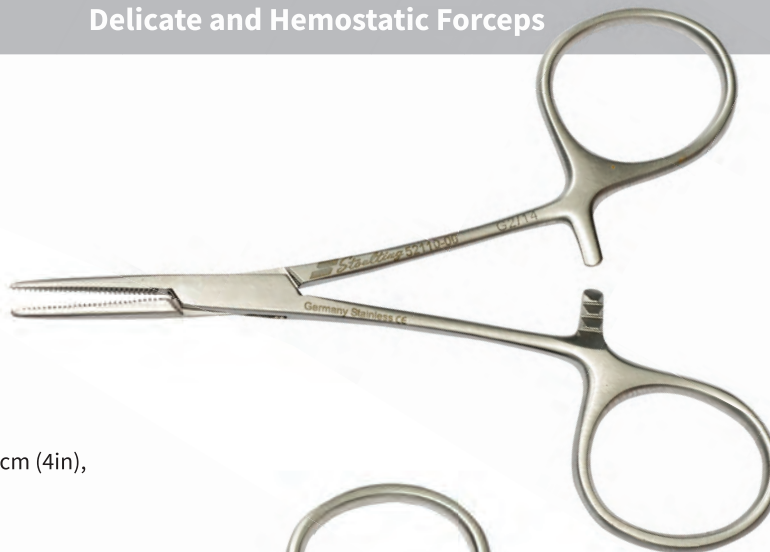


52110-31P

Gemini-Mixter Hemostats,
14cm (5.5in), Full-Curved, Delicate Tips

Hemostatic Forceps

Delicate and Hemostatic Forceps



52110-00P
Hartman Mosquito Forceps, 10.2cm (4in),
Straight Tips



52110-01P
Hartman Mosquito Forceps, 10.2cm (4in),
Curved Tips



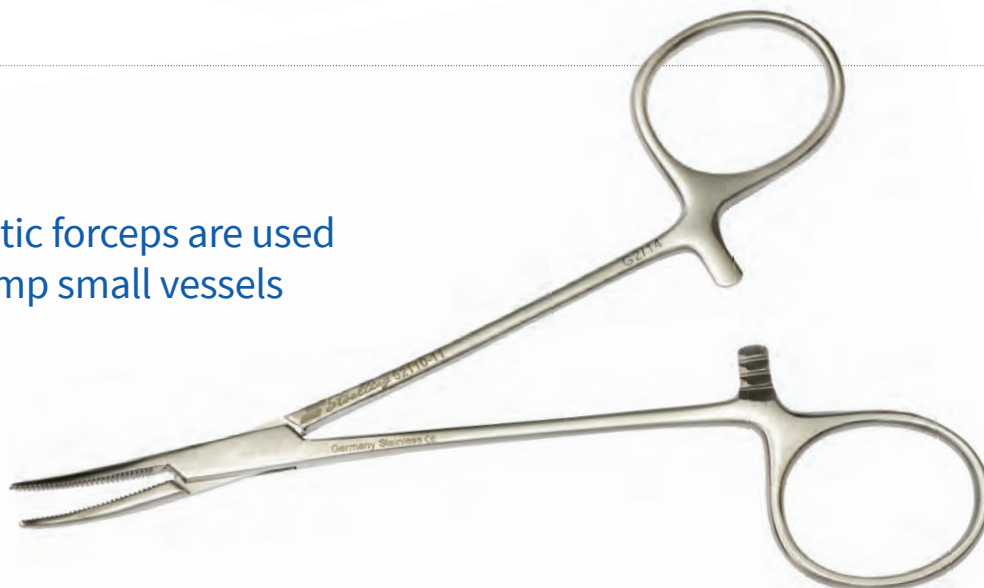
52110-02P
Halstead Mosquito Forceps, 12.7cm (5in),
Straight Tips, Left-Handed

All instruments
are shown in their
actual size!



52110-10P
Halstead Mosquito Forceps, 12.7cm (5in),
Straight Tips

Hemostatic forceps are used
to clamp small vessels



52110-11P
Halstead Mosquito Forceps, 12.7cm (5in),
Curved Tips

Hemostatic Forceps

Delicate Hemostatic Forceps

All instruments
are shown in their
actual size!

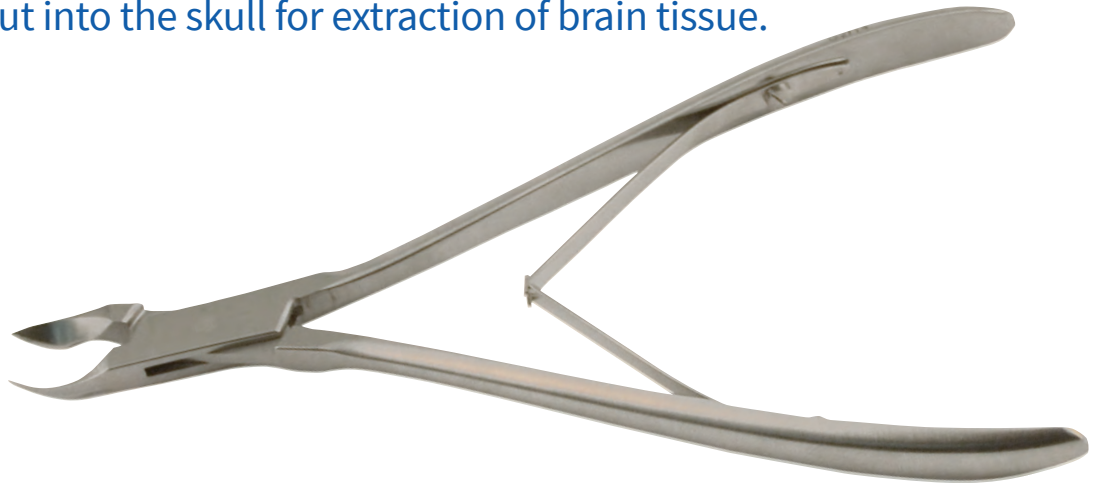


52110-12P
Halstead Mosquito Forceps, 12.7cm (5in), Straight,
Delicate Tips



52110-13P
Halstead Mosquito Forceps, 12.7cm (5in), Curved,
Delicate Tips

Bone-cutting forceps are used to grasp or cut through soft bone, cartilage and hard tissue. Used routinely to cut into the skull for extraction of brain tissue.



52166P

Bone-Cutting Forceps, 14cm (5.5in),
Convex Jaw, Fine Tips



52167-80P

Littauer Bone-Cutting Forceps, 11.4cm (4.5in),
Straight Tips

Bone Instruments

All instruments
are shown in their
actual size!



52167-84P

Littauer Bone-Cutting Forceps, 15.2cm (6in),
Straight Tips



52167-82P

Littauer Bone-Cutting Forceps, 12.7cm (5in),
Straight Tips

Bone Rongeurs are a specific type of forcep used to cut, and remove, bone and soft tissue. Straight- and curve-tipped Bone Rongeurs available.

52163P

Mini Bone Rongeur, 12.7cm (5in),
2x8mm Tips



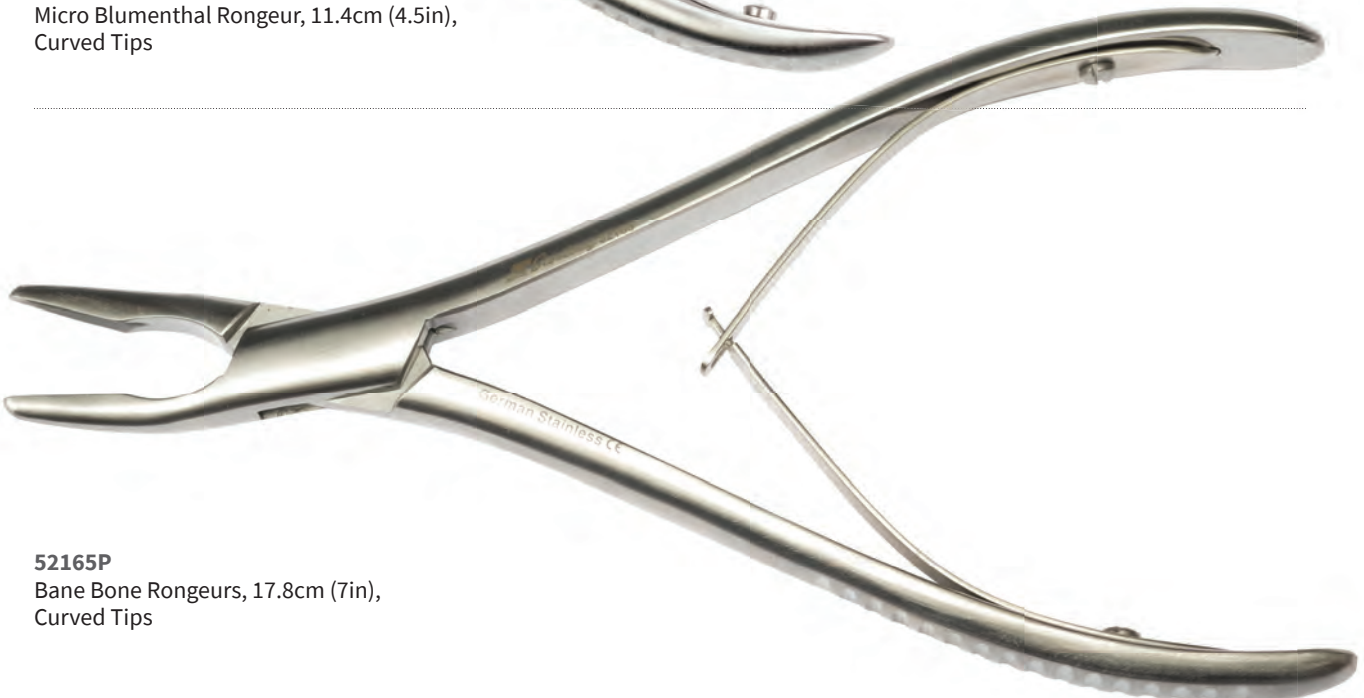
52164P

Micro Blumenthal Rongeur, 11.4cm (4.5in),
Curved Tips



52165P

Bane Bone Rongeurs, 17.8cm (7in),
Curved Tips



Bone Instruments

All instruments
are shown in their
actual size!

52160P

Friedman Rongeur, 14cm (5.5in),
Curved, Delicate Tips

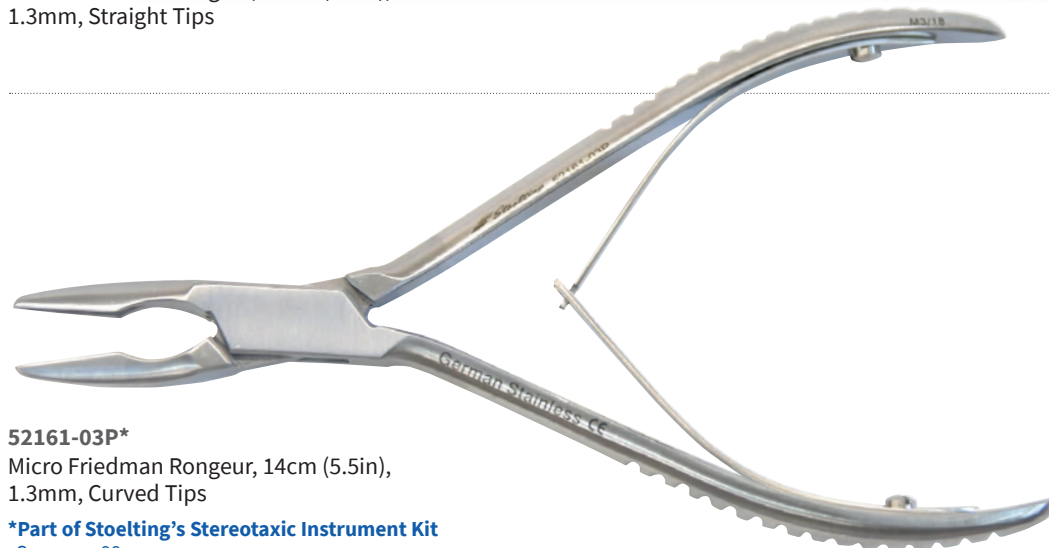
**52161-02P**

Micro Friedman Rongeur, 14cm (5.5in),
1.3mm, Straight Tips

**52161-03P***

Micro Friedman Rongeur, 14cm (5.5in),
1.3mm, Curved Tips

*Part of Stoelting's Stereotaxic Instrument Kit
See page 99



Freer Bone Elevator is used to elevate, and separate, tissue from the bone.



52169P

Freer Elevator, 17.8cm (7in),
Double-ended

Freer Bone Chisel is used to cut, or shave, bone during surgical procedures.



52170P

Freer Bone Chisel, 16.5cm (6.5in)

Specialized Dissection Tools

Wecker Spatula is a flat, blunt, flexible instrument used in cataract surgery. It can also be used for mixing, and applying, dental cement during stereotaxic surgery. The Blunt Dissection Probe is used to pinpoint structures, separate and examine tissues during dissection.



52183P
Wecker Spatula, 2x30mm,
Sterling Silver

All instruments
are shown in their
actual size!



52184P

Blunt Dissection Probe

Retractors are used to retract, and hold, skin and soft tissue for improved visualization of underlying tissues. Screw-type or self-retaining Retractors are available.

52124P

Agricola Retractor, 4.3cm (1.7in),
3x3 Prongs



52125P

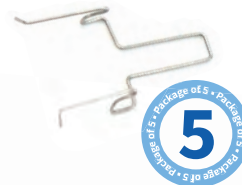
Goldstein Retractor, 2.5cm (1in)



52179*

Kane Retractor
(Stereotaxic Surgery Retractor),
1.5in, **5pk**

***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99



52126-10P

Alm Retractor, 7.6cm (3in),
4x4 Prongs, 5.1cm (2in) Spread



52126-14P

Alm Retractor, 10.2cm (4in),
4x4 Prongs, 6.4cm (2.5in) Spread



Retractors

All instruments
are shown in their
actual size!



52127P

Castroviejo Retractor, 9.5cm (3.75in),
Screw-type Adjustable



52128-00P

Weitlaner Retractor, 2x3, 11.4cm (4.5in),
Sharp Prongs

Bulldog clamps are spring-loaded vascular clamps used to temporarily occlude blood vessels during surgery. Straight and curved clamps available.

52120-38P

Dietrich Bulldog Clamp, 5.1cm (2in),
Straight Tips



52120-39P

Dietrich Bulldog Clamp, 5.1cm (2in),
Curved Tips



52120-40P

Hopkins Bulldog Clamp, 3.8cm (1.5in),
Straight Tips



52120-42P

Hopkins Bulldog Clamp, 3.8cm (1.5in),
Slight Curve Tips



52120-43P

Hopkins Bulldog Clamp, 4.7cm (1.85in),
Straight Tips



**The Jackson
Laboratory**

*Leading the search
for tomorrow's cures*

Upcoming Event!

Join us for a 3-day workshop learning surgical stereotaxic techniques with mice at the Jackson Laboratory!

Visit www.jax.org/stereotaxic for workshop schedule and to sign up!

Dieffenbach Serrefine Clamp

Dieffenbach Serrefine Clamps are finely serrated clamps used to occlude blood flow to arteries during surgical procedures.

52106-77P

Dieffenbach Serrefine 3cm (1.2in), Straight Tips



Towel Clamps are locking forceps, generally used to secure surgical towels and drapes, but can also function as skin retractors, or to grasp tissue during surgical procedures.

**All instruments
are shown in their
actual size!**

52122-80P

Backhaus Towel clamp, 9.25cm (3.6in)



Surgical Drapes and additional accessories also available. For a complete list of Surgical Accessories visit our website at www.stoeltingco.com.

Scalpel Handles & Blades

Scalpels are used to make sharp, clean incisions during surgical procedures. Available in a variety sizes and styles, scalpel handles and blades are suitable for any surgical procedure. Scalpel handles and blades must be purchased separately.

52171P*

Scalpel Handle, No.3, 10.1cm (4in)

***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99



52172P

Scalpel Handle, No.7, 16.5cm (6.5in)



52174P

Scalpel Handle, No.4, 13.3cm (5.25in)



Scalpels Are Essential Tools for Any
Surgical Suite!

52175-21P

Sterile Scalpel Blades, Size 21 for No.4,
Box/100



52173-15P

Sterile Scalpel Blades, Size 15 for No.3 and
No.7, Box/100



52173-10P*

Sterile Scalpel Blades, Size 10 for No.3 and
No.7, Box/100



***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99

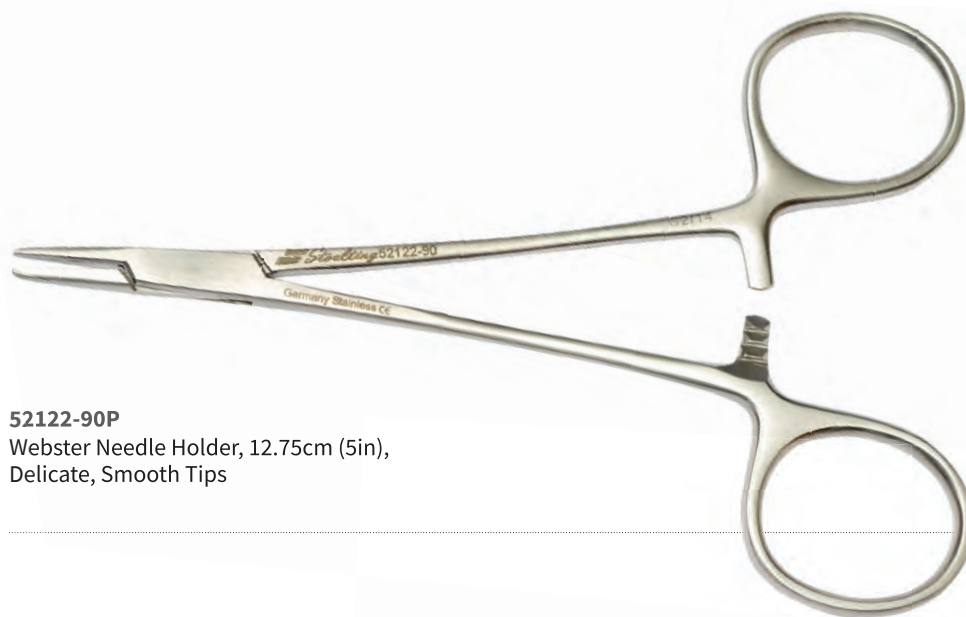
Needle Holders

Needle Holders provide precise control and hold while maneuvering suture needles. Smooth, or serrated, needle holders of different lengths available. Looking for a stronger hold? Tungsten carbide needle holders provide five times the strength as stainless steel!



52182P

Castroviejo Needle Holder w/Catch 14cm (5.5in)



52122-90P

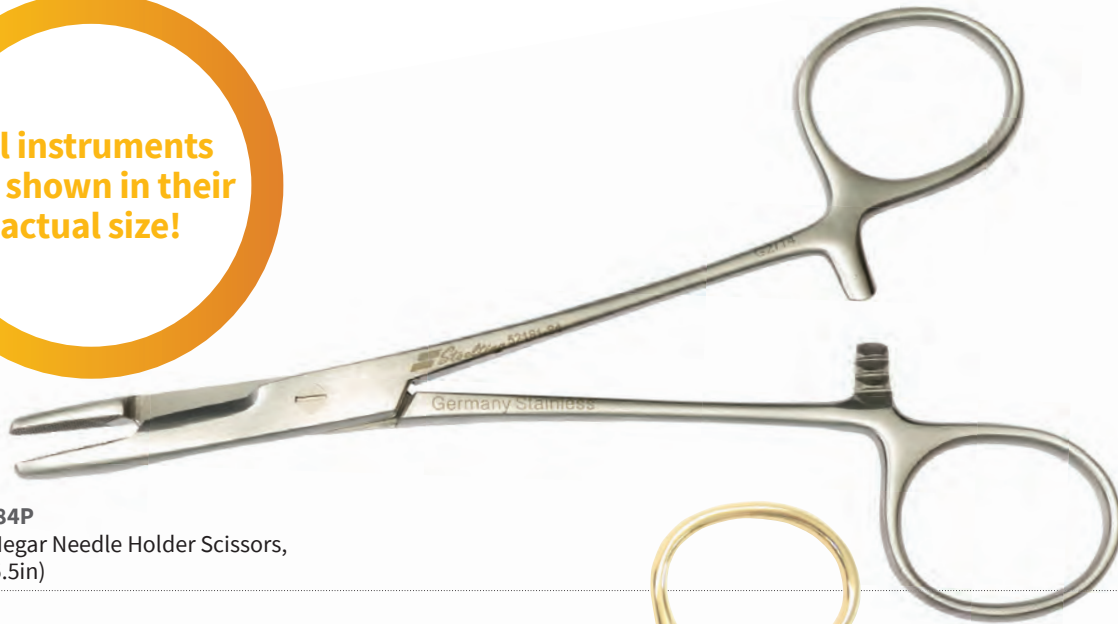
Webster Needle Holder, 12.75cm (5in),
Delicate, Smooth Tips



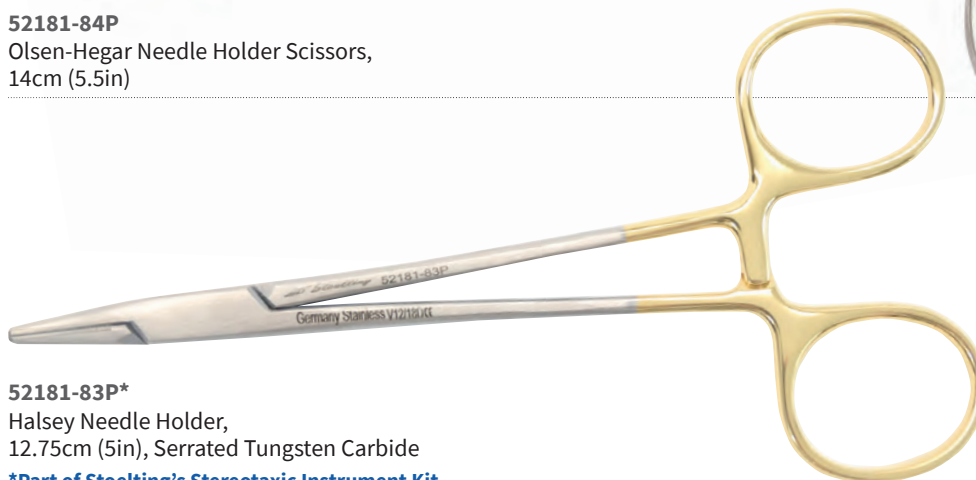
52181-80P

Olsen-Hegar Needle holder, 12.1cm (4.75in), Extra
Delicate, Serrated Tips

All instruments
are shown in their
actual size!



52181-84P
Olsen-Hegar Needle Holder Scissors,
14cm (5.5in)



52181-83P*
Halsey Needle Holder,
12.75cm (5in), Serrated Tungsten Carbide
***Part of Stoelting's Stereotaxic Instrument Kit**
See page 99



52181-92P
Olsen-Hegar Needle Holder Scissors, 11.4cm
(4.5in), Tungsten Carbide

Needle Holders



52181-94P

Olsen-Hegar Needle Holder Scissors,
14cm (5.5in), Tungsten Carbide

**All instruments
are shown in their
actual size!**



52181-96P

Olsen-Hegar Needle Holder Scissors, 17.1cm
(6.75in), Tungsten Carbide

NEW!

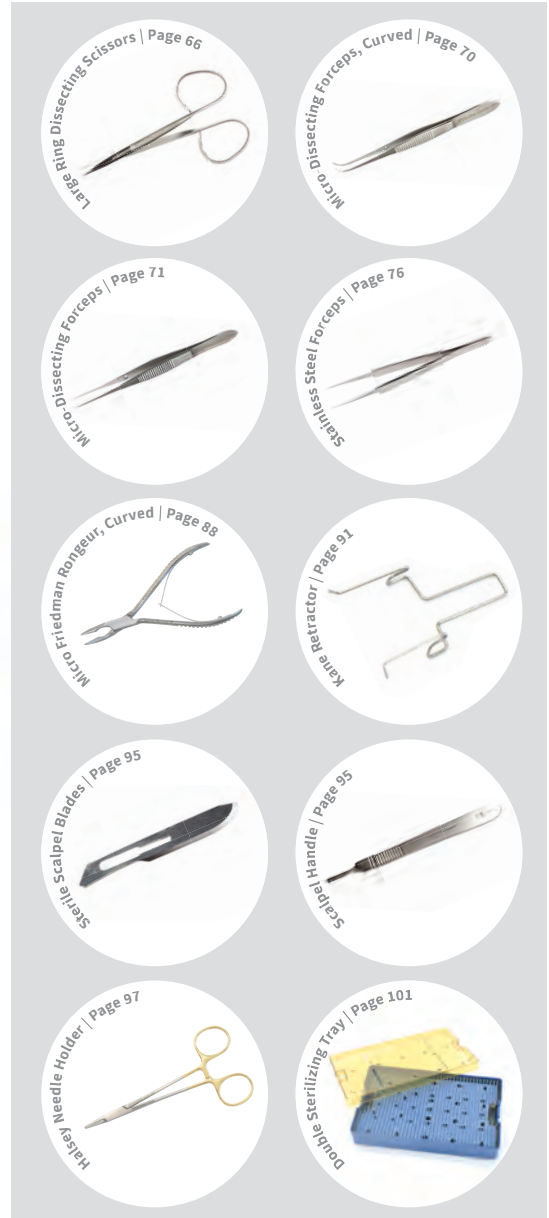
Stoelting's Stereotaxic Instrument Kit

Stoelting's Stereotaxic Surgical Instrument kit contains all the necessary tools for mouse or rat stereotaxic surgeries. You will find precision Stoelting brand surgical instruments including a double sterilizing tray that will fit all the tools. Indeed, this kit also includes the Kane Clamp, exclusive to Stoelting for retracting the skin for optimal view of the skull without causing trauma to the surrounding tissue.



STEREOTAXIC INSTRUMENT KIT

52189 Stereotaxic Surgical Tool Kit



The Jackson Laboratory

*Leading the search
for tomorrow's cures*

Upcoming Event!

Join us for a 3-day workshop learning surgical stereotaxic techniques with mice at the Jackson Laboratory!

Visit www.jax.org/stereotaxic for workshop schedule and to sign up!

Did you know...

Stoelting supports **more than 40 scientific meetings** every year?

Below is a list of Societies Stoelting has supported for over the past 25+ years!

- Society for Neuroscience
- Society for Behavioral Neuroendocrinology
- International Behavioral Neuroscience Society (IBNS)
- NIH Research Festival
- Canada Neuroscience
- Federation of European Neuroscience Societies (FENS)
- AALAS
- Neurotrauma
- International Narcotics Research Conference (INRC)
- Organization for the Study of Sex Difference (OSSD)



Please contact us if you think Stoelting would be a good fit for your conference!

We provide funding to the symposiums, conferences and meetings in sizes ranging from a few hundred, to tens of thousands of scientists. Not many other companies support the life sciences, particularly neuroscience, as much as Stoelting. Please keep that in mind when deciding

where to purchase equipment or supplies. Ask yourself... does this company provide funding and support to the meetings that I attend so that I am able to present my data and interact with other scientists?

Neuro@StoeltingCo.com • 1-800-860-9775



50287 Dry Sterilizer

Hot Glass Bead Dry Sterilizer

- Sterilization time 2-5 seconds
- Small footprint
- Meets new NIH guidelines

Insert the cleaned surgical instrument for 2-5 seconds, and remove. Within 30 seconds, the surgical instruments are cool enough to use. The chassis stays cool, even at the end of a full day of operations. The air above the unit is cool enough to insert an instrument into the well without discomfort. The working end is sterile before the handles get hot. The sterilizer's small size fits conveniently into the back corner of a hood or surgical table. One package of glass beads is included with the instrument.

HOT GLASS BEAD DRY STERILIZER

50287	Dry Glass Bead Sterilizer	
50287V	Dry Glass Bead Sterilizer, International 220V	
50289	Glass Bead Refill, 10 oz. Pkg.	

Sentry Digital Ultrasonic Cleaner

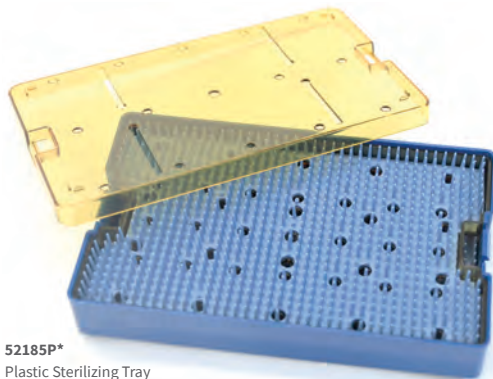
The Sentry Ultrasonic Cleaner is a high efficiency cleaner specially developed to clean surgical instruments. Ultrasonic waves pump micron-sized bubbles into the water. These bubbles fit into the tightest spaces that would be impossible to clean by traditional methods. When the bubbles implode, water hits the instrument at speeds up to 250 mph-a very powerful cleaning action.

58620 Ultrasonic Instrument Cleaner



SENTRY DIGITAL ULTRASONIC CLEANER

58620	Ultrasonic Instrument Cleaner (Only available in 120V)	
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52185P*
Plastic Sterilizing Tray

*Part of Stoelting's Stereotaxic Instrument Kit
See page 99

Plastic Sterilizing Tray

- Tray is safe for all standard methods. Autoclave/dry heat up to 360°F, ETO, and cold solutions.
- Flexibility of layout. Finger-tip mats and "plug-in" inserts for individual instruments.
- Unique "grid" system in all bases, trays, and lids makes it easy to install mats or inserts to protect your instruments.

PLASTIC STERILIZING TRAYS

CAT. NO.	DESCRIPTION	SIZE	PRICE
52185P*	Sterilizing Instrument Tray	6" x 10" x 1.5"	

STAINLESS STEEL STERILIZING TRAYS

All trays are solid (non-perforated). LIDS SOLD SEPARATELY.

CAT. NO.	SIZE	PRICE	LID CAT. NO.	LID PRICE
52104	13.5" x 9.75" x 0.75"		N/A	
52106	12.25" x 7.75" x 2.25"		52106L	
52108	10" x 6.5" x 2"		52108L	
52110	9" x 5" x 2"		52110L	



52104

Infusion/Withdrawal Syringe Pumps

Manual Microsyringe Pump

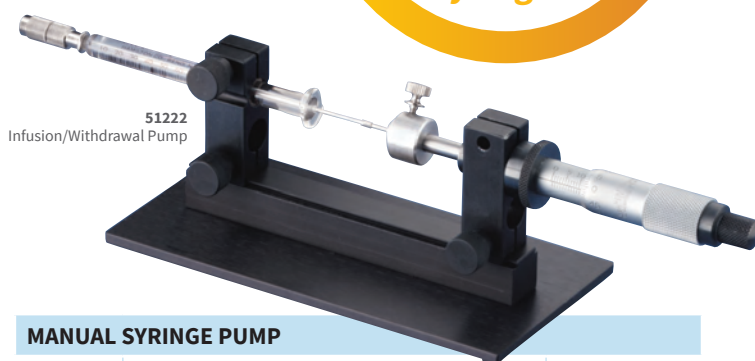
Stoelting's Manual Microsyringe Pump is a convenient instrument when using visual feedback to determine the amount to be infused or withdrawn. It also provides an economical means for any application requiring injecting/withdrawing a calibrated volume under manual control.

Applications Include:

- ICSI microtitration
- Chromatography
- Microinjections

Accessories Included

The Microsyringe Pumps includes one 100 Microliter syringe, 1 female Luer Lock-to-tubing adaptor and 10 ft. of Intramedic® PE polyethylene 60 tubing, .030" I.D., x .048" O.D.



51222
Infusion/Withdrawal Pump

MANUAL SYRINGE PUMP

51222	Infusion/Withdrawal Pump
51218	Infusion Pump
51218D	Infusion/Withdrawal, Digital (LCD) Pump



53100 KD Scientific
Infusion Only Syringe Pump

KD Scientific Syringe Pumps

KD Scientific Syringe Pumps with infuse and withdraw capabilities provide maximum flexibility for varied applications. This feature permits applications such as automatic withdrawal of samples and unattended filling of syringes, fluid level adjustments with continual infusing and withdrawing, infusion of drug or nutritional materials, and diffusion into chemical reactors.

Visit our website: StoeltingCo.com
for complete information.

INFUSION/WITHDRAWAL PUMPS

53210	2-Syringe Infusion/Withdrawal
53212	2-Syringe Infusion/Withdrawal, Programmable Pump

KD SCIENTIFIC PUSH/PULL SYRINGE PUMPS

53260	Push/Pull Pump, 2 Pair Syringes
53262	Push/Pull Pump, 2 Pair Syringes, Programmable

KD SCIENTIFIC HIGH-PRESSURE SYRINGE PUMP

53240	1-Syringe Pump, High-Pressure
53241	1-Syringe Pump, High-Pressure, Programmable

INFUSION SYRINGE PUMPS

53100	Series 100, 1-Syringe Pump, Infusion
53101	Series 100, 2-Syringe Pump, Infusion
53200	Series 200, 2-Syringe Pump, Infusion
53220	Series 200, 10-Syringe Pump, Infusion
53250	Series 200, 4-Syringe Pump, Infusion
53202	Series 200, 2-Syringe Pump, Infusion, Programmable
53222	Series 200, 10-Syringe Pump, Infusion, Programmable
53252	Series 200, 4-Syringe Pump, Infusion, Programmable

See page 34-35
or our website,
for a complete
selection
of available
syringes.

Touch-Screen Syringe Pumps

53270L Quad Syringe Pump, Legato



Highest level
of smooth flow,
accuracy and
precision!

The unique
Legato Series
offers
unparalleled
ease of use.

Touch-Screen Syringe Pumps

The unique Legato Series offers unparalleled ease-of-use through the high resolution touch-screen user interface. This new level of simplicity is combined with advanced fluidic performance to give you the highest level of smooth flow, accuracy and precision to meet all your application needs including drug discovery, nanofluidics, mass spectrometry and more. The Legato series of syringe pumps are available as Infuse Only, Infusion/Withdrawl and Push/Pull Syringe Pumps.

- Touch-screen interface and easy-to-use display
- Vertical positioning decreases footprint
- Interconnect up to 99 pumps
- Complete regulatory compliance worldwide

KD SYRINGE PUMP SPECIFICATIONS

Accuracy	± 0.35%
Reproducibility	± 0.05%
Syringes (Min/Max)	0.5 µl to 140ml
Display	4.3 WQVGA TFT Color Display with Touchpad
Non-Volatile Memory	Stores all Settings

Call Stoelting for additional specs

KD SCIENTIFIC SYRINGE PUMPS

53100L	Single Syringe Pump, Infusion Only, Legato
53101L	Nanoliter Syringe Pump, Infusion Only, Legato
53104L	Picoliter Single Syringe Programmable, Legato
53105L	Picoliter Dual Syringe Programmable, Legato
53102L	Single Syringe Programmable, Legato
53103L	Dual Syringe Programmable, Legato, 0.5u-10mL
53200L	Dual Syringe Pump, Infusion Only, Legato
53210L	Dual Syringe Pump, Legato
53212L	Dual Syringe Pump, Programmable, Legato 0.5ul-140mL
53270L	Quad Syringe Pump, Legato
53272L	Quad Syringe Pump, Programmable, Legato

Microwave In Vivo Brain Fixation

Microwave Fixation System

- Gold standard for brain tissue fixation
- Installation and training included
- Brain tissue fixed in less than 2 seconds!
- Air-cooled system—no water needed
- All controls are done through the touch-screen panel display
- Improved safety design—less than 1mW/cm²
- CE marked and approved
- Eliminates the use of other fixation methods such as paraformaldehyde/formalin

Microwave fixation is the method for reliable and rapid fixation of brain tissue. If your research involves protein phosphorylation, no other method compares.

The In Vivo Microwave Brain Fixation System is the fastest and most effective known method for halting brain chemical activity. Levels of enzyme-regulated neurotransmitters, and other rapidly-acting metabolic substances in the brain, are stopped at the levels that existed in the living animal, brain size and structure remain virtually unchanged! The In Vivo Microwave Brain Fixation Systems have been used for more than 30 years to help uncover brain activity in rodents not accessible using conventional methods of brain fixation resulting in publications in Science, Nature, and many, many other well known journals.

Better than Freezing

A common method is the cooling or freezing by immersion of a living animal's head or brain tissue in liquid nitrogen or cooled freon in order to inactivate enzymes. Although, cooling is frequently used in many laboratories, it is not fully effective in preventing post-mortem changes. The time required to freeze deep structure of the brain may range from 10-90 seconds due to the poor thermal conductivity of tissues surrounding the brain. Post-mortem changes will occur during this period.

An alternate method is microwave heating to inactivate enzymes.

If microwave power of sufficient level is focused on the animal's head, the enzymes in the whole brain can be completely inactivated in a very short time. Further, the brain can be dissected easily and slowly at room temperature.

IN VIVO MICROWAVE FIXATION SYSTEM

50037	In Vivo Microwave Fixation System, 5kW
--------------	--



SPECIFICATIONS

Oscillator	Panasonic Magnetron 2M265-M11
Microwave Power Output	5kW max.(2-5 kW variable)
Oscillation Frequency	2,450±30MHz
Cooling Requirements	Air Cooling
Exposure Time	0.10-2.99sec (0.01 sec steps)
Pausing Time	3 minutes
Power Consumption	8kVA
Frequency	50 or 60 Hz
Power Requirements	190-240V 30A 3 Phase or 380-440V 20A 3 Phase
Outside Dimensions	750W x 550D x 1,275 mmH
Weight	Approximately 103 kg

Microwave In Vivo Brain Fixation

Therefore, the microwave irradiation system is quite useful when measuring acetylcholine, choline, cyclic AMP, cyclic GMP, GABA, DOPA, 5-HTP, serotonin, endorphin, prostaglandin, catecholamines and their metabolites and phosphorylated proteins in the brain.

Microwave fixation is done by elevating the temperature of the brain up to 75-90°C as rapidly as possible.

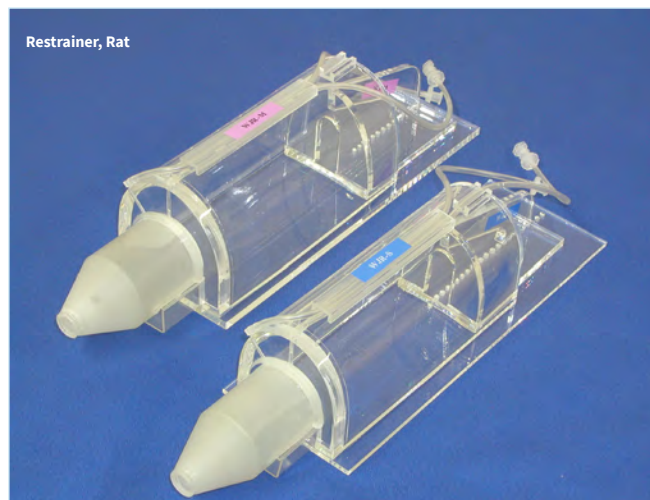
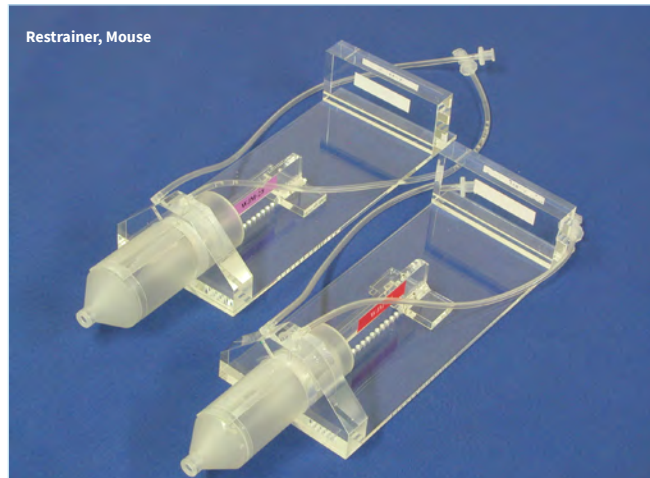
Patented Microwave Focus Applicators

Microwaves are channeled and focused by the wave guide which focuses the microwaves from above the head, rather than in front. The entire rat head is placed in a uniform microwave field. Movements of the head do not change the field strength or microwave distribution. Thus, uniform fixation of the whole brain is achieved, without “over cooking” and damage to the hypothalamus.

Muromachi's unique applicators provide protection to the researcher and also compensate for individual differences between animals, giving more reproducible results.

Compact Mobile Cabinet

The Muromachi Microwave Fixation System is enclosed in one cabinet, mounted on 5” casters, with a single convenient control panel. Holders are available for animals from 15 to 500 gms. Order appropriate applicators and holders for your application.



APPLICATORS/RESTRAINERS

50041	Applicator head for rodent sizes 15-40g
50052	Restrainer, Mouse (15-20g)
50051	Restrainer, Mouse (20-40g)
50042	Applicator Head for rodent sizes 150-250g
50055	Restrainer, Rat (150-250g)
50043	Applicator head for rodent sizes 250-600g
50056	Restrainer, Rat (250-400g)
50057	Restrainer, Rat (400-600g)

Call or email us
for references
or further
information.

Eliminates the use of other fixation methods
such as paraformaldehyde/formalin!

Tissue Preparation

McIlwain™ Tissue Chopper

The McIlwain™ Tissue Chopper is a proven instrument for rapidly sectioning living or fixed tissue, without freezing or embedding, to harden the tissue. It cuts living tissue into slices, cubes, arterial rings, etc. with a minimum of functional disturbance.

These preparations can be used in studies of metabolism or for electrophysiology. The McIlwain™ Tissue Chopper may also be used to cube fixed tissue for araldite embedding and EM.

The specimen is affixed to filter paper or plastic discs (51354) and clipped to the instrument's stainless steel table top (cyanoacrylate adhesive may be used to hold tissue pieces in otherwise unstable positions.) The table moves at a pre-set speed. As it moves, a chopping arm is raised automatically, and chops down at frequencies from zero to 200 strokes per minute. A pre-set stop prevents the attached blade from penetrating the filter paper and impacting the

instrument's stainless steel table. In this way, serial sections of live tissue from 0-1 mm thickness may be cut rapidly.

The thickness is pre-set with a micrometer graduated in 1 micron and 25 micron increments. After sectioning in one plane, the instrument's table may be rotated any number of degrees, and the process repeated, to obtain cubes or prisms.

Includes one pack of blades.



MCILWAIN™ TISSUE CHOPPER

51350	McIlwain™ Tissue Chopper	
51352	Blades, Pkg/10	
51354	Plastic Discs, Pkg/10	

If your main power supply is 220V, add a "V" to the product number.

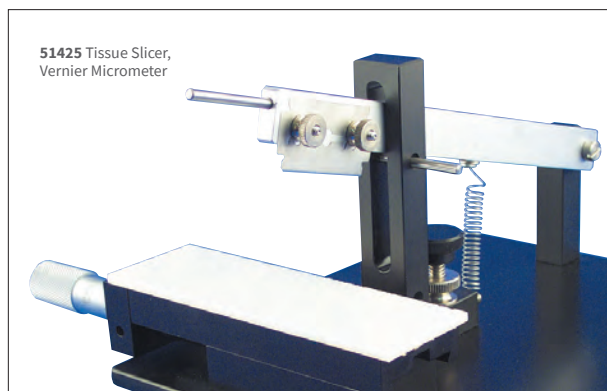
Stoelting Tissue Slicer

Fast production of living tissue slices

Originally designed to prepare thin slices of living brain, the tissue slicer is also excellent for slicing other tissues, blocking fixed tissue for histology, and slicing electrophoretic gels. Sections as thin as 150 microns can be reliably prepared. Tissue cutting is done with a standard double-edged razor blade.

Two Models

The 51425 Tissue Slicer has a conventional vernier micrometer, resolution 10 microns. The 51415 Digital Tissue Slicer has a digital display electronic micrometer, with 1 micron resolution.



Advantage of the 51415 Digital Tissue Slicer

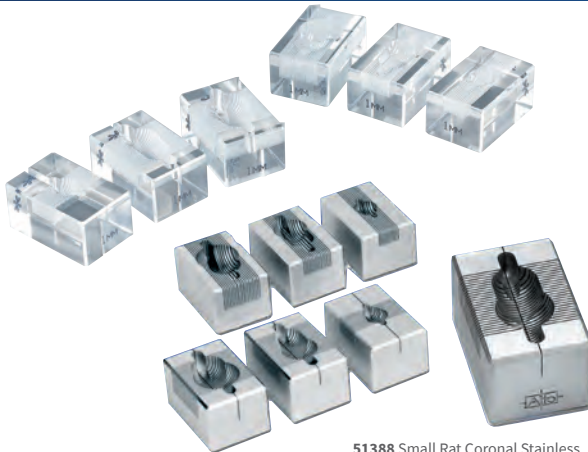
- Switch from mm to inches
- Set zero at any point
- Set low- and high-tolerance limits
- Features over-travel warning signal and output to a printer, processor, data logger or computer

Reversible Handedness

The tissue slicer can be reversed as to left or right handedness. In use, the tissue is placed on the moistened filter paper and moved beneath the cutting edge. The cutting arm is lifted by its handle. The pin is removed and the arm is released, falling by its own weight (and assisted by the spring) thereby slicing through the tissue at high velocity. The cut tissue slice is removed from the razor blade with a small artist's brush moistened in incubation media. The cutting arm is lifted, the dovetail slide moved for the next slice, and the process repeated.

STOELTING TISSUE SLICER

51425	Tissue Slicer, Vernier Micrometer	
51415	Tissue Slicer, Digital Micrometer	
51427	Metal Blades, Pkg/10	



51388 Small Rat Coronal Stainless Steel Brain Matrices

Rodent Brain Matrices

These matrices are precisely machined and highly polished to ensure reproducible sectioning. Rat and mouse brain matrices are available. Coronal and sagittal sections at 1 mm intervals. All coronal brain matrices have an additional mid-line sagittal cut to aid in the separation of the left and right hemispheres. The mouse brain matrices can also be used on neonatal rat brains. Divisions are 1 mm apart.

Dimensions: 1 Hx1.75 Lx1.125 W in.
(2.54H x 4.45L x 2.86W cm)

**Stainless steel, 0.5mm intervals
also available!**
Visit StoeltingCo.com

ACRYLIC BRAIN MATRICES

51380	Acrylic Brain Matrix, Coronal, 40-75g
51381	Acrylic Brain Matrix, Sagittal, 40-75g
51382	Acrylic Brain Matrix, Coronal, 175-300g
51383	Acrylic Brain Matrix, Sagittal, 175-300g
51384	Acrylic Brain Matrix, Coronal, 300-600g
51385	Acrylic Brain Matrix, Sagittal, 300-600g

STAINLESS STEEL BRAIN MATRICES

Stainless Steel, 0.5 mm intervals also available.
See StoeltingCo.com or StoeltingEurope.com for more information.

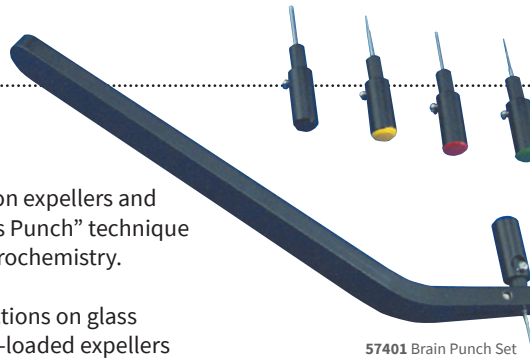
51386	Steel Brain Matrix, 1.0mm, Coronal, 40-75g
51387	Steel Brain Matrix, 1.0mm, Sagittal, 40-75g
51388	Steel Brain Matrix, 1.0mm, Coronal, 175-300g
51389	Steel Brain Matrix, 1.0mm, Sagittal, 175-300g
51390	Steel Brain Matrix, 1.0mm, Coronal, 300-600g
51391	Steel Brain Matrix, 1.0mm, Sagittal, 300-600g

Brain Punch Set

This Brain Punch Set, with spring-loaded nylon expellers and a convenient handle, facilitates the "Palkovits Punch" technique of dissecting out specific brain nuclei for neurochemistry.

The nuclei are punched from frozen brain sections on glass slides, and expelled into the reagents. Spring-loaded expellers avoid risk of contamination that might be caused by expelling with breath.

Each punch has an electropolished sharp end for smooth cuts and minimal tissue adhesion. The Brain Punch Set includes the following: handle, 0.25, 0.50, 0.75, 1.0, and 1.25 (±5%, slight variation due to electropolish etching to sharpen). Other sizes available. Replacement punches available individually, visit StoeltingCo.com or StoeltingEurope.com.



57401 Brain Punch Set

**Other punch sizes
available online!**

BRAIN PUNCH SET

57401	Brain Punch Set
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Cervical Dislocator & Decapitators



Cervical Dislocator

The Cervical Dislocator is a completely humane and efficient means of sacrificing laboratory rodents bloodlessly. Evidence indicates that the brain stem is terminated instantly by a blow from the metal bar.

When used with the plastic restraint cones, the animal can be effectively and safely restrained during transfer between cages or through all necessary handling. The 5 cm opening is sufficient for most laboratory rodents. A 6 cm model is also available.

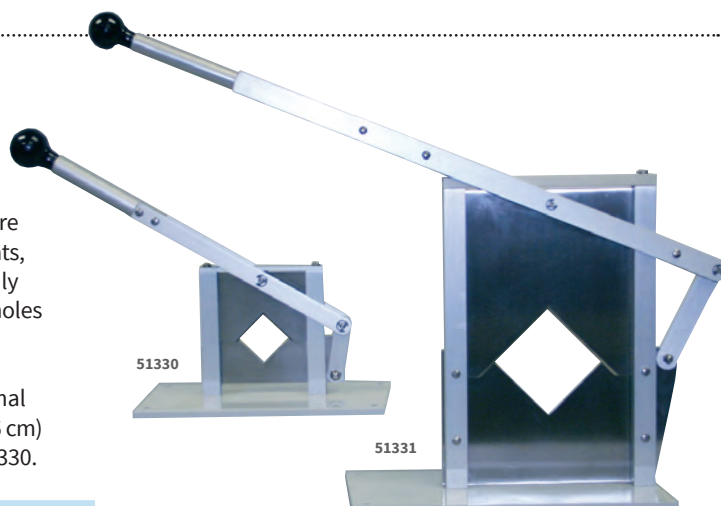
CERVICAL DISLOCATOR

51360	Cervical Dislocator, 5 cm
51365	Cervical Dislocator, 6 cm
51361	Plastic Restraint Cones Pkg/50

Decapitators

Stoelting's small animal decapitator has hardened and ground surgical stainless steel blades, aluminum base and stainless steel hardware. With its 1.5" (3.81 cm) square maximum blade opening, it is suitable for decapitating rats, mice and other small animals. The decapitator cuts cleanly and quickly through bone and tissue. The base has four holes for bench mounting.

The large animal decapitator is similar to our small animal decapitator, but with maximum blade opening of 4" (10.16 cm) square. Replacement blades are available only for the 51330.



DECAPITATORS

51330	Small Animal Decapitator
51331	Large Animal Decapitator
51327	Replacement Blades for 51330, Must be factory installed

Cuts clean and quick!



For reliable and rapid fixation of brain tissue in less than 2 seconds, see page 104!

Rat and Mouse Bone Strength Tester

Measure bone strength in rats and mice!



Bone Strength Tester

Each Bone Strength Tester is configured for administration of the three-point bending method yielding biomechanical parameters including force, stiffness and energy necessary for break. Torsion, Tensile Strength, Compression and Wound Breaking techniques can also be performed using optional sensors and accessories. Computer software is included for data acquisition.

Used to analyze bone strength in studies associated with:

- Age-related Bone Loss
- Hormone Replacement Therapy
- Weight-Bearing Exercise
- Vitamin Deficiency



BONE BREAKING DEVICE

50420	Bone Strength Tester, Small Animals
50421	LV Compressing Adapter, Rat (5-350g)
50422	LV Compressing Adapter, Rat (350-450g)
50423	Sample Making Device for Bending Test
50424	Sample Making Device for Torsion Test
50425	Femoral Neck Compressing Test Kit
50426	Tensile Test, Rat
50427	Torsion Test, Rat
50428	Bending Test, Mouse
50429	Wound Breaking Strength Test, Mouse and Rat

Small Animal Ventilators



50098 MiniVent Ventilator

Ventilator For Mice and Perinatal Rodents

The Ventilators for Mice and Perinatal Rodents are compact, quiet, lightweight and virtually vibrationless. They may be positioned directly next to the animal, eliminating tidal volume error due to system compliance.

While designed specifically for mice, the MiniVent can be used for any animals (e.g. birds and perinatal rats) which require tidal volumes in the range of 30-350 μ l. The MicroVent Ventilator is ideal for very small animals, even perinatal mice, which require tidal volumes in the range of 0-130 μ l. Both feature respiratory rates of 60-400 breaths per minute.

The tidal volume can be varied continuously throughout its range during operation without interrupting ventilation. The expired air can be recovered at the collection ports for sampling, recycling or generating a positive end expiratory pressure (PEEP). Room air, or any non-explosive gas mixture, can be used to feed the pump intake.

Each ventilator comes complete with: one AC wall-mounted power supply (115 or 220V); two silicone tubings, 1.5mm I/D, 3.0 mm O/D, 14 cm length; one 1.3mm O/D tracheotomy Cannula; one 1.2 OD Intubation Cannula.

Visit our website: StoeltingCo.com
for complete information.

**Ideal ventilator
for mice, birds,
perinatal rats and
perinatal mice.**

**No valves to clog.
No vibration.
Low noise.**

Features:

- Stroke volume range from 30 to 350 μ l (MiniVent)
- Stroke volume range from 0 to 130 ml (MicroVent)
- Ventilation rate from 60 to 400 breaths/minute
- Simple adjustment of stroke volume while running
- Valveless piston pump, no valves to clog
- Very small instrument/circuit dead space volume
- Compact construction, easy to install close to animal
- No vibration, very low noise
- Reduced tidal volume error

VENTILATOR FOR MICE AND PERINATAL RODENTS

50098	MiniVent Ventilator
50099	MicroVent Ventilator
50100	Midi-Ventilator for Mice

For 220V, add a "V" to the catalog number



Ugo Basile Rodent/ Cat/Rabbit Ventilators

Ugo Basile's Rodent/Cat/Rabbit Ventilator is a volume-controlled mechanical ventilator (according to Starling's ventilation method), designed for use with rodents, cats, rabbits and animals of similar size. It consists of a variable speed geared motor linked by a novel variable stroke mechanism to easily interchangeable cylinder/piston assemblies.

Features:

- Interchangeable cylinder/piston assemblies (5, 10, 30, 50 and 100ml)
- Quiet operation, both acoustically and electrically (negligible R.F. broadcasting)
- Reliable mechanics and impeccable finishing: long lasting
- Synchronised START/STOP function available as optional

Ugo Basile Mouse Ventilator

This new Respirator features:

- The tidal volume, in the range 0.1-1 ml (or 0.05-0.5 with the smaller piston installed)
- Ideal for use with mice, small birds and perinatal rats
- Unique design
- Compact
- Reliable
- Silent

New Lower Pricing!

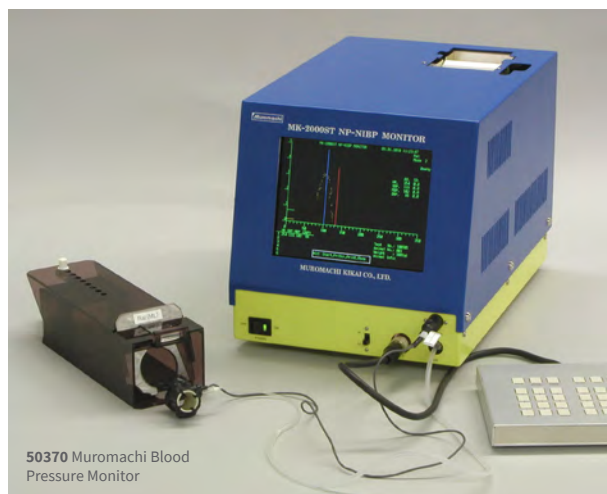
UGO BASILE ANIMAL VENTILATORS

50094	Mouse Ventilator, 1.0ml
50095	Mouse Ventilator, 0.5ml
50095-1	Rat Ventilator, 10ml
50095-2	Rodent Ventilator, 5ml
50195-5	Cat/Rabbit Ventilator, 50ml



Visit our website: StoeltingCo.com
for additional information.

Blood Pressure



50370 Muromachi Blood Pressure Monitor

Blood Pressure Monitor

Non-invasive Blood Pressure Monitor

- Preheating of animals not required
- Use with animals under 10 grams
- Use with C57 BL6 Mice and colored Mice
- Use with Zucker Fatty Rats
- Use with Hamsters (with a leg cuff anesthetic)
- The only monitor that can be used with Guinea Pigs—even without anesthesia
- The only monitor that can be used with OB (diabetic model) Mice

Preheating of animals not required

Provided the room temperature is at least 23°C, the animal's blood pressure can be measured without heating the animal. After photoplethysmographically measuring tail arterial blood pressure, pulses are stored in the computer memory and peak levels of the pulses are plotted on a display.

Easy Operation

- Two operation modes are available—Mode 1: HR (Heart Rate) and SBP (Systolic Blood Pressure) and Mode 2: HR, SBP, MBP (Mean Blood Pressure) and DBP (Diastolic Blood Pressure, calculated value) can be measured.
- Continuous measurement can be performed up to ten (10) times.

**The only
non-preheating,
non-invasive
Blood Pressure
Monitor for
Mice and Rats**

- Printout function
- Colored mice such as C57BL/6, neonatal mice, hamsters (anesthetized) and guinea pigs (non-anesthetized) can be measured.
- Sick animals can be measured. (e.g. animal with cardiac infarction)
- Multi-channel system is no longer needed. Just prepare multiple restrainers, and measurement can be done one after the other.
- Auto-Sequence Function blood pressure of a tail artery of an animal can be monitored automatically at specified time intervals, which can be 1-99 minutes in length.
- An RS-232C interface is provided on the rear panel of the main unit. Using the optional Data Collection Software (Windows OS only) the data obtained can be exported to a personal computer and stored as a CSV file.
- The animal holders are made of dark brown acrylic, allowing BP measurement under relatively stress-free conditions.

Included Accessories

Includes built-in high-speed printer, 9" (22.86 cm) display, measuring stand, choice of cuff-pulse sensor, animal holder, and 5 rolls of thermal chart paper.

For PC compatibility, Data Collection Software 50391, sold below, is not required.

BLOOD PRESSURE MONITOR

50370	Muromachi Blood Pressure Monitor	
50391	Data Collection Software for Windows	

If your main power supply is 220V, add a "V" to the product number.



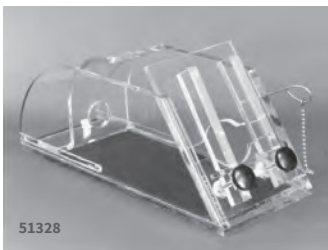
Mouse Restrainer, Head and Tail Access

These mouse restrainers are built in cylinder-shaped perspex. Lateral slots and holes allow for the animals ventilation and make the access for interperitoneal (i.p.) drug administration possible. The available space for the animal can be

adjusted by means of a sliding piston, thereby keeping the whole tail free for a pulse transducer and cuff positioning or for intravenous (i.v.) drug administration. The animal is led in from the back and can walk out in the front, thus avoiding dragging it backwards.

MOUSE RESTRAINER, HEAD AND TAIL ACCESS

51324	Mouse Restrainer, Head and Tail access, 0-50g
51325	Mouse Restrainer, Head and Tail access, 0-35g
51326	Mouse Restrainer, Head and Tail access, 0-25g



Rabbit Restrainer

Provides total visibility of the animal, and aids in retaining body warmth. The non-slip floor surface provides better footing and helps to calm the animal. A curved back/butt plate minimizes the possibility of a broken neck.

RABBIT RESTRAINER

51328	Rabbit Restrainer, 0-4 kg
51329	Rabbit Restrainer, 4-7 kg



Rodent Restraint Cones

Disposable plastic restraint cones hold the animal safely in position for injections through the plastic bag, for decapitation, for cervical dislocation, or for examination

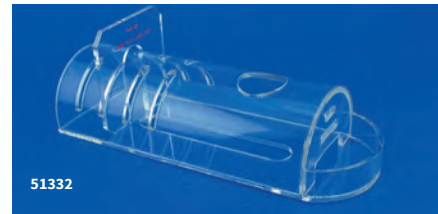
of collected field specimens such as field mice or rats. The scientist avoids contact with feces or urine, and avoids bites and scratches.

The animal is easily loaded into the cone at the wide end, and heads for the breathing hole at the small end. Sold in packs of 50.

RODENT RESTRAINT CONES

51361	Plastic Restraint Cones, Pk/50
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For more sizes, visit "Histology"
on our website! www.StoeltingCo.com



Head Access Rodent Restrainer

Provides access to the head and allows access to food and water. Offered in four sizes to accommodate indicated rodent weights.

HEAD ACCESS RODENT RESTRAINER

51332	Head Access Rodent Restrainer, 15-30g
51339	Head Access Rodent Restrainer, 30-125g
51333	Head Access Rodent Restrainer, 125-250g
51334	Head Access Rodent Restrainer, 250-425g



Tail Access Rodent Restrainer

The head is pushed back by the moveable disk so that the tail projects out the hole in the acrylic plate. Perfect for injections, blood sampling, or blood pressure monitoring. Offered in four sizes to accommodate indicated rodent weight.

TAIL ACCESS RODENT RESTRAINERS

51338	Tail Access Rodent Restrainer, 15-30g
51337	Tail Access Rodent Restrainer, 30-125g
51336	Tail Access Rodent Restrainer, 125-250g
51335	Tail Access Rodent Restrainer, 250-500g

ANY-maze Behavioral Tracking Software

ANY-maze



ANY-maze

Behavioural tracking software

ANY-maze is today's most advanced video tracking system. Trusted by thousands of researchers around the world, ANY-maze couples an unrivalled depth of features with a simple, familiar design, to provide automated testing in virtually any behavioural test.

ANY-MAZE

60000	ANY-maze
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Test ANY-maze for yourself!
Put ANY-maze to use in your research and see the software in action. Download the latest version of ANY-maze at www.ANY-maze.com, or contact us for a FREE 30-day trial!

Download for free

Download ANY-maze right now and try it for free. No fuss, forms or bureaucracy - you can be testing ANY-maze in your own apparatus in five minutes time. Got questions? Just email us—we support everyone, forever, for free.

Easy-to-use

As a scientist you want to run tests, not spend time learning software and with ANY-maze you'll be up and running in no time. Visit www.ANY-maze.com to learn more!

True flexibility

ANY-maze will happily track a single mouse in a radial arm maze, or simultaneously track sixteen rats in their home cages for a week. And ANY-maze isn't limited to tracking rodents. Users track quails, marmosets, zebra-fish, goats...

Outstanding value for money

ANY-maze offers the best value for money of any video tracking system. Not only do you get all the features for a single price - that's right, no modules or add-ons - but lifetime support and unlimited software updates are free!

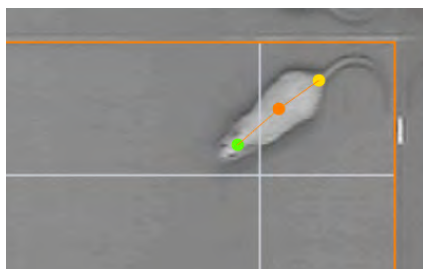
Fully featured

Despite its ease of use, ANY-maze is no lightweight with features like moveable zones, three-point tracking, and freezing detection, etc., etc., etc.

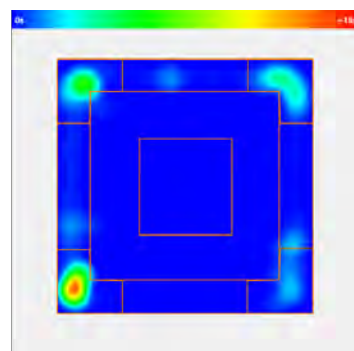
AMi-2 interfaces

The AMi-2 family of low-cost interfaces make it even easier to connect to a wealth of equipment typically found in behavioural labs, such as optogenetic lasers, shockers, pellet dispensers, levers, running wheels, gas analysers, lickometers, photobeams, levers, cue-lights...you get the idea! See page 116-117.

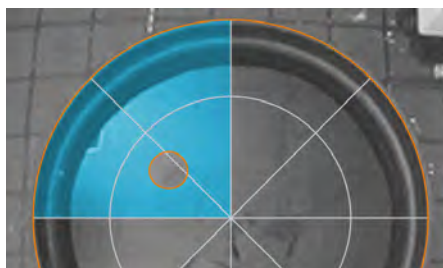
ANY-maze Behavioral Tracking Software



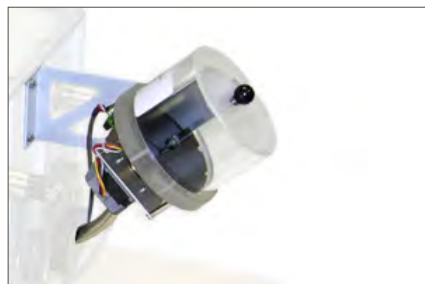
Tracking in ANY-maze requires no special set-up or parameters—you put the animal in the apparatus and it tracks



ANY-maze doesn't predefine anything about the apparatus in which it will be tracking



ANY-maze can assess literally hundreds of results for a test and present them in different ways



ANY-maze can easily be connected to a wealth of devices commonly used in behavioural tests



ANY-maze manages complete experiments

Test	Animal	Code	Stage	Trial	Reason ended	Status
1	1	C	Acquisition	1	Found platform	Completed
2	2	A	Acquisition	1	Test duration	Completed
3	3	C	Acquisition	1	Found platform	Completed
4	4	A	Acquisition	1	Test duration	Completed
5	5	C	Acquisition	1		Ready
6	6	C	Acquisition	1		
7	7	B	Acquisition	1		
8	8	B	Acquisition	1		
9	9	B	Acquisition	1		
10	10	B	Acquisition	1		
11	11	C	Acquisition	1		
12	12	C	Acquisition	1		
13	13	B	Acquisition	1		
14	14	A	Acquisition	1		

ANY-maze can track in live images from a camera, or in pre-recorded video files

Test duration (s)				
Treatment	N	Mean	SD (note 1)	Data (notes 2, 3)
Saline	6	9.30	±6.03	19.0, 8.5, 11.3, 3.7, 11.4, 2.4
Compound X 1.0 mg/kg	5	18.72	±11.53	9.1, 30.7, 24.3, 10.3, 22.2
Compound X 5.0 mg/kg	5	33.46	±16.19	43.5, 35.7, 51.9, 26.2, 10.0
Compound X 10.0 mg/kg	5	83.76	±31.34	118.5, 110.3, 85.8, 53.1, 51.0
ANOVA (notes 4, 5): F(3,18) = 17.0668 p = 0.000				
Student-Newman-Keuls test (notes 5, 6)				
Saline vs. Compound X 1.0 mg/kg			q(17,2) = 1.1655	p = 0.421
Saline vs. Compound X 5.0 mg/kg			q(17,2) = 3.0056	p = 0.114
Saline vs. Compound X 10.0 mg/kg			q(17,2) = 9.2040	p = 0.000
Compound X 1.0 mg/kg vs. Compound X 5.0 mg/kg			q(17,2) = 1.8401	p = 0.211
Compound X 1.0 mg/kg vs. Compound X 10.0 mg/kg			q(17,2) = 8.1192	p = 0.000
Compound X 5.0 mg/kg vs. Compound X 10.0 mg/kg			q(17,2) = 6.2792	p = 0.001
Notes:				
1. SD = Standard deviation.				
2. The data analysed has been limited in the following way: Trial = Treated trial.				
3. Animals which are marked as retired have been excluded from this report.				
4. One-way ANOVA, fixed factor.				
5. p ≤ 0.05 is highlighted in red.				
6. The error term (mean square error) = 334.800				

ANY-maze understands the structure of your experiment, so it's able to analyse results between different groups

Get a quick insight into the power and simplicity of ANY-maze at ANY-maze.com!

ANY-maze Equipment

ANY-maze Interfaces (AMi-2)

What do you do if you need to count the number of licks at a water bottle, or determine how far an animal runs in an exercise wheel? Video tracking alone can't help. The answer is AMi-2, the second generation of the popular ANY-maze interface.

There are a total of seven AMi-2 devices which between them can detect and respond to inputs from, amongst other things, levers, running wheels, touch switches and nose-poke holes; and can control devices such as optogenetic lasers, shockers, pellet dispensers, cue lights and speakers. All the AMi-2 devices are fully integrated into ANY-maze and connect to the PC via USB, in most cases you don't even need a power cord.



AMi-2 Optogenetic Interface

The AMi-2 Optogenetic interface is designed to independently control up to four optogenetic lasers during behavioural tests performed with ANY-maze. Using the interface, you can either pulse a laser with very high precision at a specific frequency and duty cycle for a set duration, or you can 'play' a series of arbitrary pulses. If your laser supports it, the interface can also dynamically adjust the laser's intensity.

AMi-2 OPTOGENETIC INTERFACE

60060	Optogenetic Interface for ANY-maze
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AMi-2 Digital interface

The AMi-2 Digital interface is designed to connect ANY-maze to a wide range of equipment typically found in behavioural labs, such as: levers, photobeams, running wheels, some shockers and pellet dispensers, cue lights, etc.

AMi-2 DIGITAL INTERFACE

60064	Digital Interface for ANY-maze
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AMi-2 Touch Switch Interface

The AMi-2 Touch switch interface is designed to detect when an animal touches something conductive. For example, this might be the animal licking a bottle spout, the animal's paw touching a metal plate on the wall of a cage, or the animal slipping from a grid and its paw touching a metal floor.

AMi-2 TOUCH SWITCH INTERFACE

60061	Touch Switch Interface for ANY-maze
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AMi-2 Relay interface

The AMi-2 Relay interface has six output ports which can be used to turn things on and off under software control. For example, an output could switch on a shocker, turn on a light or activate a pellet dispenser.

AMI-2 RELAY INTERFACE

60063	Relay Interface for ANY-maze
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AMi-2 Analogue Interface

The AMi-2 Analogue interface is designed to connect ANY-maze to devices which output analogue signals, for example a respiratory gas analyser, a blood pressure monitor or an EEG. The interface can also output digital signals, which can, for example, represent the location of the animal in the apparatus.

AMI-2 ANALOGUE INTERFACE

60057	Analogue Interface for ANY-maze
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AMi-2 Audio Interface

The AMi-2 Audio interface has six outputs which can be connected to 4-ohm or 8-ohm speakers. Each output can independently play white noise, tones or a sound file under full software control.

AMI-2 AUDIO INTERFACE

60068	Audio Interface for ANY-maze
60066	Speaker for ANY-maze

Electrophysiology Interface

The AMi-2 Electrophysiology interface is designed to help synchronise tests in ANY-maze with tests in electrophysiology systems. It consists of 6 TTL ports, each of which can be configured independently as an input or and output. Used in conjunction with the Electrophysiology synchronisation element of the protocol, the interface allows you to output TTL signals when a test starts, when a new frame is captured from the camera and/or when ANY-maze stores the animal's position in its results.

ELECTROPHYSIOLOGY INTERFACE

60069	Electrophysiology Interface
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ANY-maze Bundle Options

ANY-maze Video Tracking Bundle Options

Your complete solution for small animal behavior testing!

ANY-maze is the most versatile, easy-to-use behavior tracking software available. Purchasing a complete ANY-maze package makes it even easier. Purchase an ANY-maze bundle and

you'll receive everything you need for your research. All ANY-maze bundle packages include unlimited software technical support.

Which ANY-maze Bundle is right for you? See page 138 for more ANY-maze Bundle Options!

ANY-maze with Camera and Accessories Bundle



ANY-maze Camera and Accessories Bundle Includes:

(you supply the computer and maze/apparatus)

- ANY-maze License (Software)
- Camera
- Camera Accessories (lens, ceiling-mount & cables)

ANY-MAZE CAMERA AND ACCESSORIES BUNDLE

60605	ANY-maze System with Camera and Accessories Bundle
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ANY-maze with Computer and Accessories Bundle



ANY-maze Computer and Accessories Bundle Includes:

(you supply the maze/apparatus)

- ANY-maze License (Software)
- Computer (Desk or Laptop)
- Camera
- Camera Accessories (lens, ceiling-mount & cables)

ANY-MAZE COMPUTER & ACCESSORIES BUNDLE

60600	ANY-maze System with Computer and Accessories Bundle, Desktop
60601	ANY-maze System with Computer and Accessories Bundle, Laptop

ANY-maze System/Laptop with On-Site Training



ANY-maze Computer and Training Bundle Includes:

(you supply the maze/apparatus)

- ANY-maze License (Software)
- Computer (Desk or Laptop)
- Camera
- Camera Accessories (lens, ceiling-mount & cables)
- On-Site Training and Installation from one of our ANY-maze Specialists

ANY-MAZE COMPUTER & TRAINING BUNDLE

60651	ANY-maze System/Laptop with On-Site Training Bundle
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ANY-maze Cameras & Accessories



ANY-maze can be paired with a variety of cameras and accessories to help meet, and optimize, your tracking needs. Additionally, if your research requires something unique, such as the ability to track using simultaneous capture from multiple cameras, or to track in complete darkness, we have options and solutions. Below are some of our recommendations, but if you need assistance in selecting a camera or accessories to meet your specific needs please contact us.



USB CAMERA

60516	B&W USB 2.0 CMOS Camera (Lens Sold Separately) **Recommended**
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USB CAMERA LENSES (SOLD SEPARATELY)

60528	Lens for 60516, Vari-Focal, 2.8-12mm **Recommended**
60530	Lens for 60516, Vari-Focal, Narrow Angle
60532	IR-Only Lens Filter for 60528

USB CABLES & HUBS

60058	ANY-maze TTL I/O Cable
CUSTOM	BNC to TTL Cable
60517B	USB 2.0 Male to Mini Cable, 15ft.
60518	USB 2.0 Extender Cable, 10ft.
60574	USB Hub 7-Port with Power Adapter

ANALOG B&W CAMERA

60510	Analog B&W Camera (Lens Sold Separately)
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ANALOG CAMERA LENSES (SOLD SEPARATELY)

60520	Lens for 60510, Vari-focal, 2.7-13.5mm
60521	Lens for 60510, Wide Angle
60522	Lens for 60510, Narrow Angle

COMPUTERS

60555	ANY-maze Computer, Desktop
60557	ANY-maze Computer, Laptop

ACCESSORIES

60545	Universal Camera Mounting Bracket
60540	Infrared Night Light Illuminator
60062	ANY-maze Remote Control (Wireless)
60057	ANY-maze Wired Remote Control

See more options and details
at www.ANY-maze.com

ANY-maze Accessories



ANY-maze photobeam

The AMi-2 photobeams detect when an animal breaks an infrared beam and can be used in a wide variety of situations, such as detecting when an animal passes through a door, detecting nose-pokes, detecting how far down a corridor the animal has travelled.

ANY-MAZE PHOTO-BEAM

60001-21	AMi Photo Beam, 1 set (IR Transmitter & Receiver)
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ANY-maze Photobeam array

The ANY-maze photobeam array provide a 'curtain' of photobeams and is often used to detect when an animal rears. It can also be as a movement detector, which can generate reliable movement 'counts' in circumstances in which video tracking can't be used. Use with the AMI-2 Digital Interface (see page 116). *Includes Stand.*

ANY-MAZE PHOTOBEAM ARRAY

60001-02	AMi Photo-Beam Array, 40cm
60001-03	AMi Photo-Beam Array, 100cm



ANY-maze digitizer card

If you wish to use analogue cameras with ANY-maze you'll need a digitizer card. This converts the analogue signal provided by the camera into a digital format which the software can analyse. distances of up to 50 metres.

ANY-MAZE DIGITIZER CARD

60499	Digitizer PCIe Card, 4 channel
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ANY-maze animal shocker

The ANY-maze animal shocker administers scrambled shock to 8 independent outputs. The intensity, onset and duration of the shock are all under software control, so for example, the intensity of the shock could be altered depending on the situation in a test.

ANY-MAZE ANIMAL SHOCKER

60001-51	ANY-maze Programmable Shocker
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ANY-maze Animal Scale

Based on settings you specify in the protocol, ANY-maze will prompt you to place an animal on the scales before a test; when you do this, it will weigh the animal and record the result. ANY-maze can also optionally calculate an animal's treatment dose based on its weight.

ANY-MAZE ANIMAL SCALE

60052	ANY-maze Animal Scale
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AMi-2 Cue lights

The AMi-2 Cue lights are perfect for providing visible cues to animals during tests. The lights are water resistant and are available in a variety of colors and sizes (22mm, white shown here). Use with the AMi-2 Digital Interface (see page 116).

AMI-2 CUE LIGHTS

60045W	AMi-2 Cue lights, white
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More colors & options
available online!



AMi-2 Rotary encoder

The AMi-2 Rotary encoder detects rotations an axle. This can be useful in a variety of situations. For example, if the axle has a running wheel mounted on it, the encoder will detect rotations of the wheel; or, if the axle connects to an animal tether, the encoder will detect rotations of the animal. Use with the AMi-2 Digital Interface (see page 116).

AMI-2 ROTARY ENCODER

60048	AMi-2 Rotary Encoder
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ANY-maze Infrared illuminator

The ANY-maze infrared illuminator allows you to track in very low light or even total darkness.

ANY-MAZE INFRARED ILLUMINATOR

60540	ANY-maze Infrared illuminator
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Can be wall or ceiling mounted.



ANY-box for Mice and Rats

ANY-box ANY-maze Driven Multiple Tests with a Single Base

ANY-box is a multi-configuration behavior apparatus designed to automate a range of standard behavioral tests in mice and rats. ANY-box uses the same basic components in different tests, creating a flexible and affordable solution for behavior analysis. Mouse and Rat complete automated systems include everything you need for automated assessment of:

- Memory
- Locomotor Activity
- Anxiety
- Drug Effects
- Exploratory Activity
- Stress Response

TESTS INCLUDE:

Open Field
Hole Board
Novel Object Recognition
Light/Dark Box
Conditioned Place Preference

**Individual Automated Tests also available.
Each individual automated system includes:**

- ANY-box Software
- ANY-maze Interface
- Universal Base Plate
- Camera & Camera Accessories
- Enclosure of your choice: Open Field, Light/Dark, Conditioned Place Preference, Object Recognition, Hole Board or all 5 tests together!

ANY-box uses the ANY-maze software and camera to track X- and Y- movements. A photobeam IR array is included to track Z- movements (rearing behavior) which is incorporated into the ANY-maze software.

**Automate
up to five
behavior tests!
Computer not
included.**

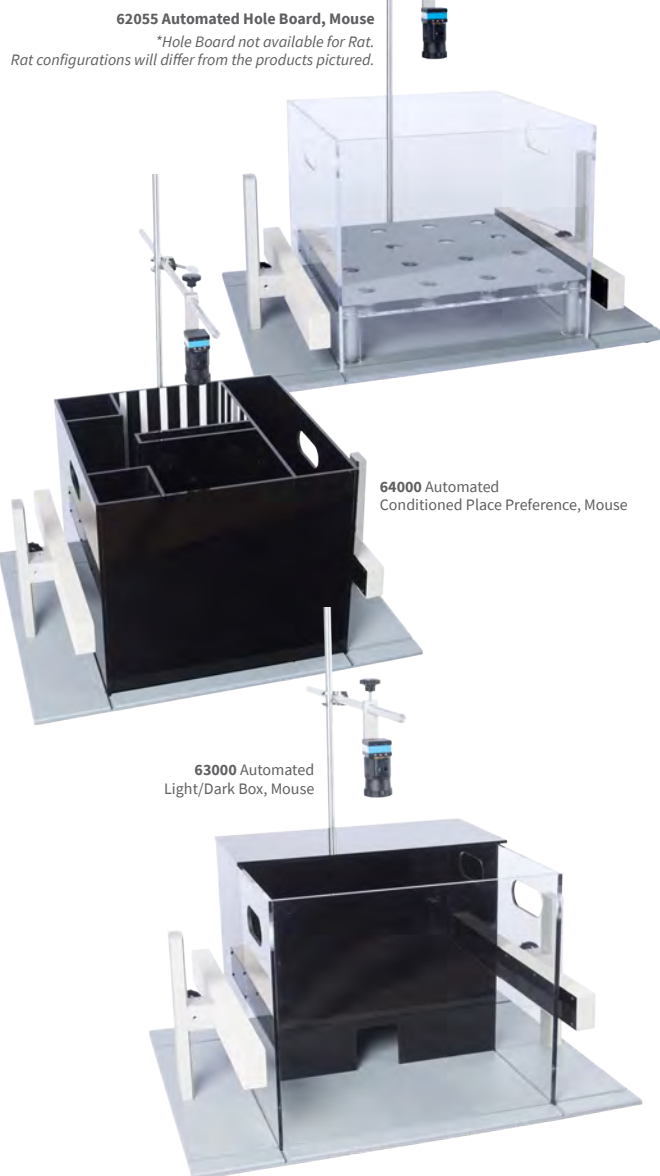
ANY-box Base
(Includes camera mount
and IR Array)



ANY-box for Mice and Rats



62075 Automated Object Recognition, Mouse



62055 Automated Hole Board, Mouse

**Hole Board not available for Rat.
Rat configurations will differ from the products pictured.*



64000 Automated Conditioned Place Preference, Mouse

63000 Automated Light/Dark Box, Mouse

Multiple cage systems available.
Call for details.

ANY-box

65000 ANY-box 5-Behavior Test System, 40cm, Mouse

68500 ANY-box 4-Behavior Test System, 40cm, Rat*

COMPLETE AUTOMATED SYSTEMS FOR MOUSE

62000 ANY-box Open Field, 40cm, Clear w/Photobeam Array

62050 ANY-box Open Field, 40cm, Opaque w/Photobeam Array

62055 ANY-box Hole Board Apparatus, 40cm, w/Photobeam Array

62075 ANY-box Novel Object Recognition, 40cm, Clear w/Photobeam Array

63000 ANY-box Light/Dark, 40cm, w/Photobeam Array

64000 ANY-box Conditioned Place Preference, 40cm, w/Photobeam Array

COMPLETE AUTOMATED SYSTEMS FOR RAT

60224 ANY-box Open Field, 100cm, Clear w/Photobeam Array

60225 ANY-box Open Field, 100cm, IR Black w/Photobeam Array

65202 ANY-box Conditioned Place Preference, 100cm, Clear w/Photobeam Array

ANY-box MOUSE ENCLOSURES ONLY (40CM)

60111 Open Field, Clear, Mouse

60122 Open Field, IR Transparent Black, Mouse

62020 Object Recognition, Mouse

62025 Hole Board, Mouse

63100 Light/Dark Box, Mouse

64100 Conditioned Place Preference, Mouse

ANY-box RAT ENCLOSURES ONLY (100CM)

60220 ANY-box Open Field, Enclosure Only, 100cm, Clear

60223 ANY-box Open Field, Enclosure Only, 100cm, IR Black

60221 ANY-box Open Field, Enclosure Only, 100cm, Opaque

63201 Light/Dark Box, Enclosure Only, Rat (set of 2)

64201 Conditioned Place Preference, Enclosure Only, Rat (set of 2)

65201 Object Recognition, Enclosure Only, Rat

Rat and Mouse Behavior Mazes



Water Maze

The Morris Water Maze is one of the most widely used methods in behavioral neuroscience to assess spatial and learning memory. The Water Maze tank is filled with water and equipped with a platform (60030) which acts as a means of escape for animals. During testing, animals learn the location of the platform using spatial cues. The Water Maze tank is made of aluminum and is available in three different sizes for testing of Mice, Rats or both. *Platform (60030) is included.*

WATER MAZE		
60135	Water Maze, Mouse, 3.5-4.5 ft Diameter (1.07-1.37m)	
60136	Water Maze, Mouse/Rat, 4.5-5.5 ft Diameter (1.37-1.68m)	
60235	Water Maze, Rat, 5.5-6.5 ft Diameter (1.68-2.0m)	
AVAILABLE ISLANDS		
60030	4 in (10.2 cm) Diameter/12 in (30.5cm) Height	
60035	4 in (10.2 cm) Diameter/20 in (50.8cm) Height	

Barnes Maze

The Barnes Maze is designed for testing spatial learning and memory. Within the maze, animals are motivated to escape from the brightly lit, open platform to a small dark recessed chamber (escape box). During testing, the animal learns the spatial location of the escape box. The maze also includes false escape boxes, which help to remove visual cues that might be observed from a distance or through an open hole.



CATALOG NUMBER		TABLE DIA.	HOLE DIA.	HEIGHT	PRICE
60170	Barnes Maze, Mouse	91cm	5cm	90cm	
60270	Barnes Maze, Rat	122cm	10cm	90cm	

Save money when purchasing an ANY-maze bundle!

Maze bundle packages include: Laptop computer, USB Camera, Camera Accessories, ANY-maze software and a Stoelting maze of your choice! See pages 138-139 for more details.



Open arms are equipped with height-adjustable lip to minimize falls.



Elevated Plus-Maze

The Elevated Plus-Maze is used to assess anxiety in rodents. The maze exploits the conflict between the innate fear that rodents have of open areas, versus their desire to explore novel environments. The Elevated Plus-Maze is designed with an elevated plus-shaped platform, with two closed arms and two open. Both open arms are equipped with height-adjustable lip to minimize falls.

CATALOG NUMBER		LANE WIDTH	ARM LENGTH	WALL HEIGHT	LEG HEIGHT	PRICE
60140	Plus-Maze, Mouse	5cm	35cm	15cm	40cm	
60240	Plus-Maze, Rat	10cm	50cm	40cm	40cm	

Elevated Zero-Maze

The Elevated Zero-Maze is a modification of the Elevated Plus-Maze, which incorporates both traditional and novel ethological measures, in the analysis of anxiety. The design comprises an elevated circular platform, with two opposite enclosed quadrants, and two open. This removes any ambiguity in interpretation of time spent on the central square of the traditional "plus" design, and allows uninterrupted exploration.

CATALOG NUMBER		DIA.	LANE WIDTH	WALL HEIGHT	LEG HEIGHT	PRICE
60190	Zero-Maze, Mouse	50cm	5cm	15cm	40cm	
60290	Zero-Maze, Rat	100cm	10cm	30cm	40cm	



Includes adjustable rim similar to the elevated Plus-Maze.

Rat and Mouse Behavior Mazes



60150 Radial 8-Arm Maze

Radial-Arm Maze

The Radial-Arm Maze has been used extensively in evaluating spatial learning and memory. The apparatus consists of eight (or 12) equidistantly-spaced arms radiating from a small, circular central platform. The design ensures that, after checking for food at the end of each arm, the rodent is forced to return to the central platform before making another choice. The subject always has eight (or 12) possible options.

CATALOG NUMBER		LANE	ARM	WALL	PRICE
60150	8-Arm Radial Maze, Mouse	5cm	35cm	9cm	
60250	8-Arm Radial Maze, Rat	10cm	50cm	13cm	

T-Maze

The T-Maze is used largely in preference and spatial learning tasks. Animals learn to alternate between arms, based on their memory of the previously visited arms, or choose an arm based on the reward presented. The simple, capital T-shape design incorporates a single choice point with only two alternatives.



60181 T-Maze

Mazes for all your behavior testing needs!

CATALOG NUMBER		LANE	STEM	ARM	ARM	PRICE
60181	T-Maze, Mouse	5cm	35cm	10cm	28cm	
60281	T-Maze, Rat	10cm	50cm	20cm	40cm	

Y-Maze

The Y-maze is used to assess exploratory behavior and/or spatial recognition of rodents. Three identical, equidistant arms, designed with gradual turns, promote exploration of the apparatus. Barrier blocks (optional) can be used to employ recognition or reversal paradigms.

CATALOG NUMBER		LANE WIDTH	ARM LENGTH	WALL HEIGHT	PRICE
60180	Y-Maze, Mouse	5cm	35cm	10cm	
60280	Y-Maze, Rat	10cm	50cm	20cm	

BARRIER BLOCKS

60180B	Barrier Block Y-maze, Mouse, set of 2	
60280B	Barrier Block Y-maze, Rat, set of 2	



60180 Y-maze

Parallel Rod Floor Apparatus



ANY-maze Driven

Stoelting's Parallel Rod Foot Fault Apparatus is designed for assessing the effects of drugs, brain damage and disease on motor coordination and fatigue. Tests in up to 16 cages can be performed simultaneously using ANY-maze. This high throughput design makes the test an extremely versatile and valuable screening and phenotyping tool.

Parallel rod Features:

- Easier to use than Rota-Rod
- Provides similar measurements to Rota-Rod testing
- Provides two measurements not necessarily provided by other tests: Number of errors (foot slips) Horizontal distance traveled (cm)

Using the ratio errors per cm traveled to index ataxia provides a robust and unique measure of genetic contributions to locomotor incoordination.

**Compare to Rota-Rod.
Use to assess Ataxia and Motor Coordination.**

61000 Parallel-Rod Floor Apparatus



**ANY-maze
Touch Interface
included!
See page 116**

PARALLEL-ROD FLOOR APPARATUS

61000	Parallel-Rod Floor Apparatus, Single Enclosure System
61500	Parallel-Rod Floor Apparatus, Four Enclosure System

Stoelting Lickometer

The Stoelting Lickometer for Mouse can be used to measure licking/drinking behavior in mice. An electrical signal is generated from the tongue touching the sipper tube so each lick by the mouse is a recorded event. The Stoelting Lickometer includes the Plexiglas cage and base, controller, and software. This is designed to work with the ANY-maze software, so a computer is required (not included). This Lickometer is designed to be a low-cost measurement of licking/drinking behaviors in mice.

- Easy to use
- Can be combined with other behavior apparatuses, such as Open Field, Y-maze, etc.
- Easy to clean apparatus



ANY-maze Driven

STOELTING LICKOMETER

67100	Stoelting Lickometer System
67105	Stoelting Lickometer System with ANY-maze
67101	Stoelting Lickometer, water bottle mount



67101 Stoelting Lickometer, water bottle mount

Rat and Mouse Behavior Mazes



60450 Sociability Cage

Sociability Apparatus

Ideal for the investigation of:

- Autism
- Maternal Behavior
- Dominance
- Social Memory
- Sociability

The Sociability Apparatus is used to assess social interaction and conditions thereof. The three-chambered apparatus includes two gray “stranger” enclosures with wide grid bars to promote interaction, and a non-reflective gray floor to maximize contrast, for video tracking purposes.

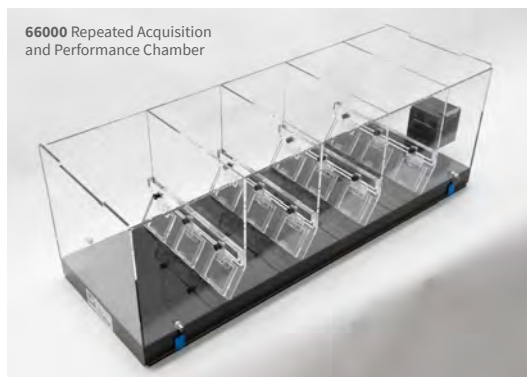
Rat sizes available.



ANY-maze Driven

SOCIABILITY APPARATUS

60450	Sociability Cage, Mouse
60449XL	Sociability Cage, Rat



ANY-maze Driven

Repeated Acquisition and Performance Chamber (RAPC)

RAPC is a behavioral monitoring apparatus designed to completely automate and assess spatial learning and memory. RAPC enhances the accuracy of recording temporal measurements, and error scoring, during spatial learning and memory experiments, through the use of the ANY-maze data acquisition software and electronic sensors. In fact RAPC is an ANY-maze software driven product. The software can be used to track as many as 16 chambers simultaneously, and performs full statistical analysis of results immediately upon completion of the experiment.

- Automated data collection results in high throughput and data collection accuracy
- Acrylic construction allows for easy animal observation
- ANY-maze Software control provides ease of operation
- A single personal computer can collect data from up to 16 chambers simultaneously
- ANY-maze software automatically configures the experiments
- ANY-maze controls the experiment flow, data collection and statistical analysis

**Automated
assessment of
spatial learning
and memory!**

STOELTING REPEATED ACQUISITION AND PERFORMANCE CHAMBER (RAPC)

66000	RAPC Repeated Acquisition and Performance Chamber
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60160 Porsolt "Forced Swim" Test

Porsolt "Forced Swim" Test

The Porsolt "Forced Swim" Test is commonly used as a test for depression in rodents. Rodents are subjected to forced swim with no means of escape. The animals learn that escape is impossible and become immobile, moving only to keep their heads above water. Increased immobility is interpreted as depression. The Porsolt cylinder accommodates top-down and side camera positioning for automated detection of immobility behavior with ANY-maze video tracking software.

- Designed for use with Rats and Mice
- Center drain
- Valve for water level adjustment
- Handles for convenient carrying, positioning, emptying and cleaning

CATALOG NUMBER	DIA.	DEPTH	PRICE
60160 Porsolt Test	20cm	45cm	

Tail-Suspension Test


- Designed specifically for use with ANY-maze
- Suitable for use with Rats and Mice
- Convenient, removable walls for easy cleaning

The Tail-Suspension Test is akin to the Forced Swim Test, but avoids the problems of hypothermia, and stress associated with forced swimming. Animals are suspended by their tails, and the amount of "immobility" is measured. Longer periods of immobility are associated with higher depressive scores, and immobility can be reversed with antidepressant treatment.



60125 Tail-Suspension Test

CATALOG NUMBER	HEIGHT	STATION WIDTH	OVERALL WIDTH	PRICE
60125 Tail-Suspension Test	54cm	19cm	47cm	

Automate any Stoelting maze with  ANY-maze!
See page 114 for details.

Mouse Behavior Mazes



63101 Light/Dark Box

Light/Dark Box

The Light/Dark Box is a characteristic tool used in the assessment of anxiety. The basic measure is the animal's preference for dark, enclosed places over bright, exposed places. Time spent in the lit (light) half of the arena, and the related exploratory behaviors, are reliable parameters for assessing anxiolytic effects that may be useful in identifying and/or screening of anxiolytic and anxiogenic agents.

CATALOG NUMBER	OVERALL WIDTH	HEIGHT	TEST CHAMBER DIMENSION	PRICE
63101 Light/Dark Box, Mouse	40cm	35cm	20x40cm	



62015 Hole-Board Test

CATALOG NUMBER	ENCLOSURE			TEST CHAMBER HOLE	PRICE
	WIDTH	LENGTH	HEIGHT	DIAMETER	
62015 Hole Test, Mouse	40cm	40cm	35cm	3cm	

Conditioned Place-Preference Apparatus

The Conditioned Place-Preference (CPP) Apparatus is commonly used in the assessment of the rewarding or aversive properties of drugs or to identify the neuronal basis of reinforcement expression. Typically, the test involves association of an environment with drug effects, followed by the association of a different environment without the administration of drugs. Stoelting's Conditioned Place-Preference Apparatus is comprised of two chambers, barrier block and context kit for altering the environment of each chamber.



64101 Conditioned Place-Preference Apparatus

CATALOG NUMBER	OVERALL WIDTH & HEIGHT	TEST CHAMBER DIM.	START BOX DIM.	PRICE
64101	40cm X 35cm	18 X 20cm	10 X 20cm	

Hole-Board Test

Head dipping on a Hole-Board is frequently used as an indicator of exploratory tendencies in rodent studies. Exploratory behavior in the Hole-Board Apparatus is a highly sensitive measure commonly used to explore and determine pharmacological and genetic influences. Additionally, the holes of the Hole-Board Apparatus can be baited, so the test can be utilized in spatial learning and memory experiments.



60100 Open Field

Open Field

The Open Field test is commonly used to assess locomotor activity, exploratory behavior and anxiety in rodents. Open field apparatuses are available with a 40cm square (clear, gray or IR black) or round (clear or gray) enclosure, and gray base plate to maximize contrast, for video tracking.



60101



60102

CATALOG NUMBER		WIDTH	DEPTH	HEIGHT	PRICE
60100	Open Field, Mouse, Clear Walls	40cm	40cm	35cm	
60101	Open Field, Mouse, Gray Walls	40cm	40cm	35cm	
60102	Open Field, Mouse, IR Black* *For use with photobeam arrays	40cm	40cm	35cm	
60105	Open Field, Mouse, Round, Clear	40cm	40cm	35cm	
60106	Open Field, Mouse, Round, Gray	40cm	40cm	35cm	



60105

Visit our
website for
more options!

Novel Object Recognition Test

The Novel Object Recognition Test is based on the premise that rodents will explore a novel object, more than a familiar one, if the animal is able to remember the familiar one. The flexibility of the Novel Object Recognition Test allows for testing of short- or long-term memory, and can be used to selectively test the effects of an acute drug treatment on a specific stage of memory formation.

CATALOG NUMBER	ENCLOSURE			PRICE
	WIDTH	DEPTH	HEIGHT	
62017 Novel Object Test, Mouse	40cm	40cm	35cm	
62007 Novel Object Accessories Only (see page 136)	Set of 12 (Includes 2 ea. square and round blocks in gray, black and white)			



62017 Novel Object Test

Rat Behavior Mazes



Open Field

The Open Field Test is commonly used to assess locomotor activity and anxiety-related behaviors in rats. The test apparatus includes a 100cm base plate and a 100cm open field enclosure. Open field enclosures are available in clear, opaque black and IR black (for use with photobeam arrays). Optional Quad divider partitions the Open Field Apparatus into four, 50x50cm enclosures.

60206 Open Field Activity, Round



Visit our website for more Rat maze options!

CATALOG NUMBER		WIDTH	LENGTH	HEIGHT	PRICE
60200	Open Field, Rat, Clear Walls	100cm	100cm	35cm	
60201	Open Field, Rat, Opaque Black Walls	100cm	100cm	35cm	
60202	Open Field, Rat, IR Black *For use with photobeam arrays	100cm	100cm	35cm	
60205	Open Field Activity Round, Clear	90cm	90cm	35cm	
60206	Open Field Activity Round, Gray	90cm	90cm	35cm	

Novel Object Recognition Test

The Novel Object Recognition Test is based on the premise that rodents will explore a novel object, more than a familiar one, if the animal is able to remember the familiar one. The flexibility of the Novel Object Recognition Test allows for testing of short- or long-term memory, and can be used to selectively test the effects of an acute drug treatment on a specific stage of memory formation. A set of novel object accessories is included (2 each of the square and round blocks in gray, black and white). Optional Quad divider partitions the Open Field Apparatus into four, 50x50cm enclosures.



65200 Object Recognition Test, Rat

CATALOG NUMBER	ENCLOSURE			PRICE
	WIDTH	LENGTH	HEIGHT	
65200 NOVEL OBJECT TEST, RAT	100cm	100cm	35cm	
62007	Novel Object Accessories, Set of 12			
60210	Quad Divider, Black			



Conditioned Place-Preference Apparatus

The Conditioned Place-Preference (CPP) Apparatus is used in a wide variety of behavior paradigms. Most commonly it is used in the assessment of the rewarding property of drugs (or other natural reinforcers) or to identify the neuronal basis of reinforcement expression. Typically, a drug is injected, and the animal is placed in a test chamber with distinctive environmental cues.

Each test apparatus includes a 100cm base plate, two sets of place-preference enclosures used for testing two rats simultaneously, barrier block and context kit for altering the environment of each chamber.

Includes two test enclosures for testing two rats simultaneously!

64200 Conditioned Place-Preference (2 Enclosures)



CATALOG NUMBER	DESCRIPTION	OVERALL WIDTH	LENGTH	TEST CHAMBER DIMENSIONS	PRICE
64200	Conditioned Place-Preference Apparatus	100cm	100cm	50 X 100cm	
64200-BB	Acrylic Barrier Block				



Light/Dark Box

The Light/Dark Box is commonly used to assess anxiety-related behaviors. Rodents exhibit an innate preference for dark, enclosed areas over brightly lit, exposed areas. Time spent in the brightly lit open area, and the related exploratory behaviors, are reliable parameters for assessing anxiolytic effects that may be useful in identifying and/or screening of anxiolytic and anxiogenic agents. Each test apparatus includes a 100cm base plate and two sets of light/dark enclosures used for testing two rats, simultaneously.

63200 Light/Dark Box, 2 Enclosures

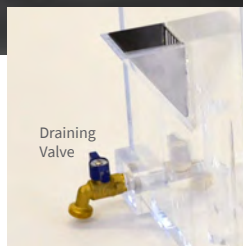
CATALOG NUMBER	DESCRIPTION	OVERALL WIDTH	LENGTH	TEST CHAMBER DIMENSIONS	PRICE
63200	Light/Dark Box	100cm	100cm	50x100cm	

Check out our full product line at www.StoeltingCo.com

Unique Behavior Mazes



60185 Sleep Disrupter
Water Tank for Mice



Draining
Valve

Stoelting Sleep Disruptor Cage

Stoelting has developed a useful tool for the study of sleeping disorders, REM sleep, and neurodegenerative diseases in mice. The Stoelting Sleep Disruptor Cage produces a stressful environment by utilizing a water environment with 12 individual columns that are just above the water (30mm in diameter), just large enough for a mouse to sit on. But when the mouse goes into REM sleep, the mouse falls into the water. This cage can be used with the ANY-maze Behavioral Tracking Software for video recording and manually scoring other types of behavior.

The following features are available:

- Food hopper and water bottle for studies greater than 24 hours
- Draining valve
- No mechanical parts that can break
- Easy to clean

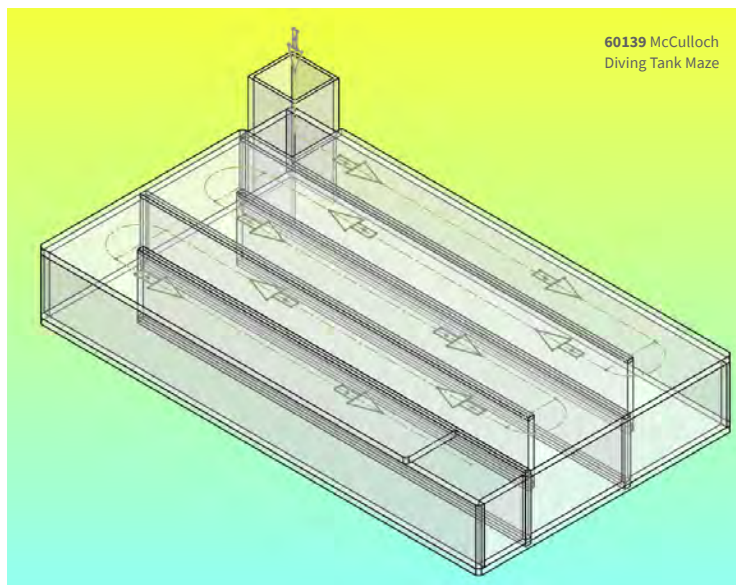
SLEEP DISRUPTOR CAGE

60185	Sleep Disrupter Water Tank, Mice
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A new maze
and animal model
for exploring
autonomic
reflexes.

McCulloch Rat Diving Tank

The McCulloch Diving Tank Maze can be used for measuring autonomic reflexes seen in rats. In response to submersion under water, the reflexly-induced response consists of apnea, bradycardia and an alteration of blood flow that maintains flow to the heart, brain and exercising muscles while limiting flow to viscera and non-exercising muscles.



60139 McCulloch
Diving Tank Maze

MCCULLOCH DIVING TANK MAZE

60139	McCulloch Diving Tank Maze
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Orofacial Pain Assessment Device (OPAD) for Rats and Mice

The Stoelting OroFacial Pain Assessment Device (OPAD) provides an automated measurement of orofacial pain assessment in the trigeminal nerve in rats and mice via hot or cold or mechanical stimulation. Using an operant behavior conflict paradigm, rodents voluntarily (cognitive-based) decide between receiving a reward or avoiding an aversive stimulus to the orofacial region.

The OPAD begins to work when the animal touches and presses between dual Peltier-controlled temperature elements or mechanical protrusions to obtain a liquid reward. As the temperature (hot or cold) becomes aversive, the animal can withdraw. As for mechanical assessment, the animal's orofacial region will be forced to touch the protrusions to proceed to the liquid reward. The ANY-maze OroFacial Software will automatically track the number of licks, contact with elements (both the Peltier and mechanical protrusions), and amount of liquid consumed.

Features:

- Hot or Cold Temperature Control
- Mechanical stimulation
- Objective Pain Assessment—Easy to use!
- Operant Testing and Measures (not reflexive based)
- High Throughput
- Rackable System
- Up to 16 Cages with a Single Computer
- 4° to 75°C Temperature Range
- Easy to Clean
- Easy USB Connection
- Designed for use with Mice and Rats

Hardware

The OPAD cage for either mice or rats is seated on a metal base that is easily cleaned. A metal rack for rats and mice are enclosed; easily removed and cleaned between animals. Animals are trained and tested in the cage; the reward bottle is positioned to allow access when simultaneously contacting the thermode or mechanical protrusions with its orofacial region. The water bottle is connected to the data acquisition controller for recording each lick, in addition, contact with the thermode or mechanical protrusions will record each touch and duration, finally the amount (grams) of consumption from the reward bottle is also recorded. Each cage is easily attached to computer via USB port.



A New Tool for Hot, Cold or Mechanical Pain Assessment in Rats and Mice. All in a Single Instrument!

Software

All of this data taken from the hardware will then be displayed and analyzed using the ANY-maze OroFacial Software. The software is used to set-up a protocol and will then display and track in real-time the following events: temperature changes and contacts with the thermode or mechanical device, licks and weight of the reward bottle. Following completion of the test, the OroFacial Software will display graphs and statistical analysis of the experiment(s); of course data can be downloaded to other software programs.



ANY-maze Driven

OROFACIAL PAIN ASSESSMENT DEVICE (OPAD)

67500	OroFacial Pain Assessment Device (OPAD) System, Rat/Mouse
67501	OroFacial Pain Assessment Device (OPAD) Additional Cage

Open Field Maze with Backlighting

NEW!

Open Field Apparatus with Backlighting

Stoelting's Backlit base is ideal for video tracking using the ANY-maze Software. The three different light levels, Low- 353 Lux, Medium-1156 Lux, and High-2770 Lux allow for better overall tracking of the body with head tracking behavior being greatly enhanced. Back lighting creates a near perfect contrast between the base and the animal.

Features:

- Perfect for tracking multi-colored animals
- Improves contrast for video tracking
- Three different light levels
- 40cm x 40cm space
- Ideal for Novel Object Recognition testing
- Red light conditions available



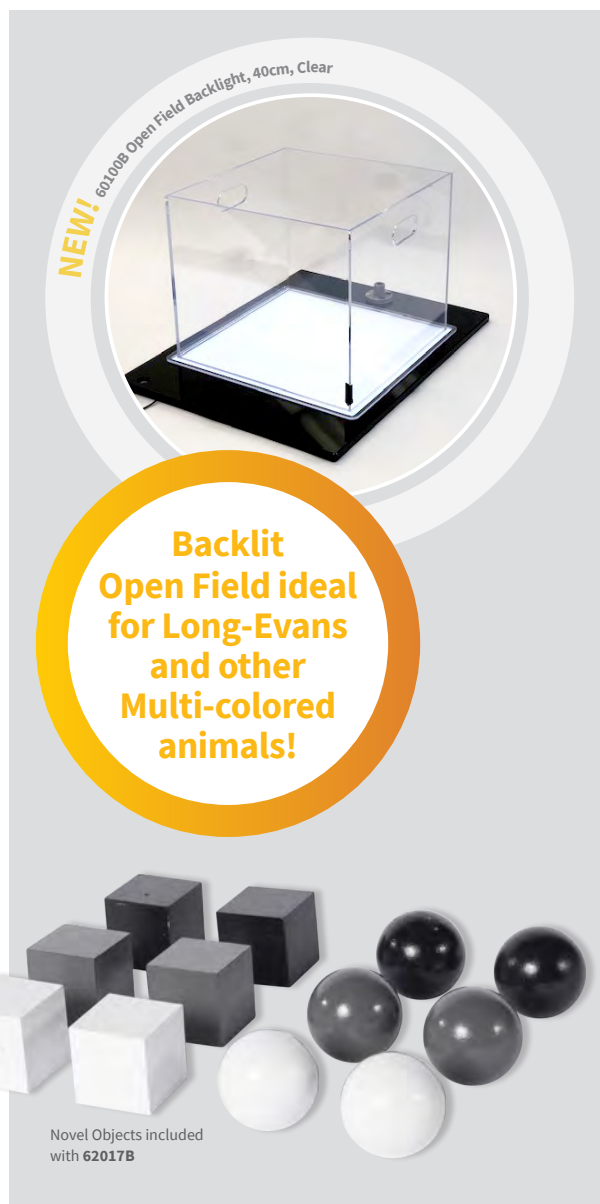
ANY-maze Driven

OPEN FIELD APPARATUS WITH BACKLIGHTING

60112B	Backlit Base Plate, 40cm
60100B	Backlit Open Field, 40cm, Clear
60101B	Backlit Open Field, 40cm, Gray
60102B	Backlit Open Field, 40cm, IR Black
62017B	Backlit Novel Object, 40cm, Clear
64101B	Backlit Conditioned Place Preference, 40cm

Test ANY-maze for yourself!

Download the latest version at
www.ANY-maze.com, or contact
us for a **FREE 30-day trial!**



The Jackson Laboratory

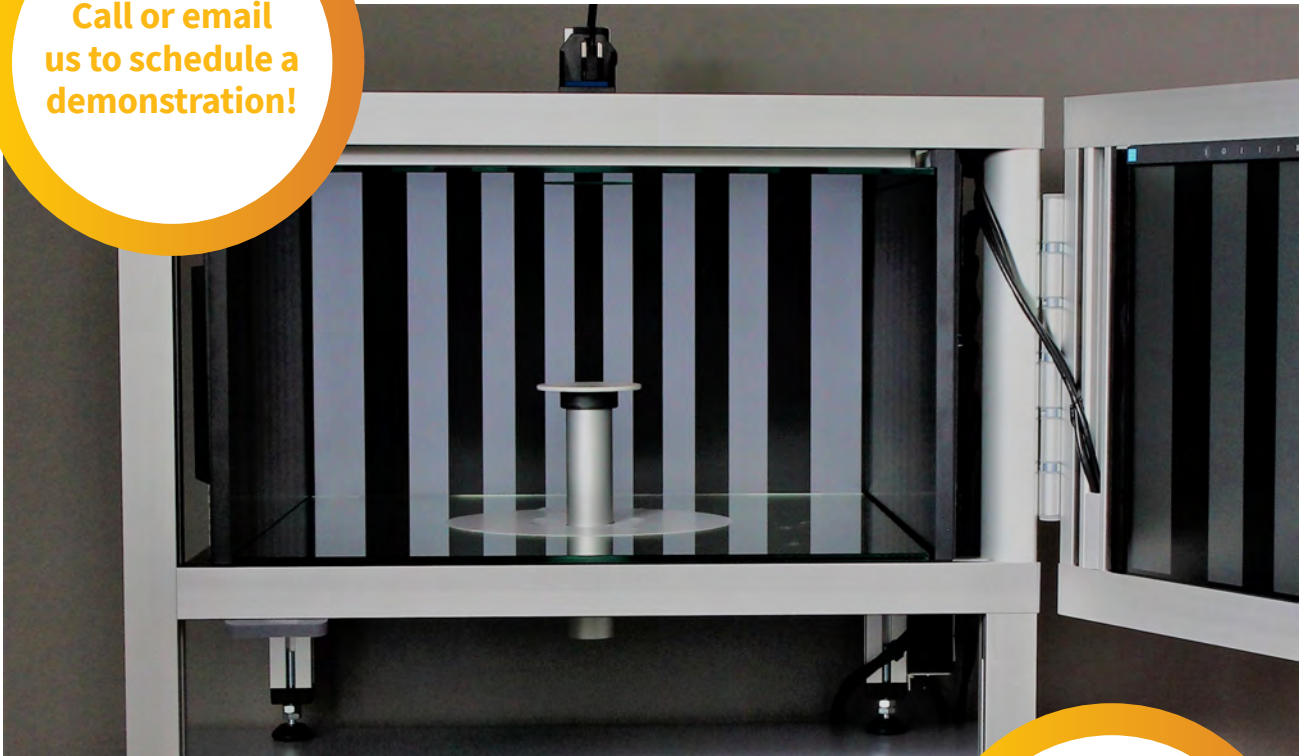
*Leading the search
for tomorrow's cures*

Upcoming Event!

Join us for a 3-day workshop learning surgical stereotaxic techniques with mice at the Jackson Laboratory!

Visit www.jax.org/stereotaxic for workshop schedule and to sign up!

Call or email
us to schedule a
demonstration!



OptoDrum
determines
the animal's
visual threshold
automatically.

NEW! OptoDrum: Automated Measurement of the Optomotor Reflex

The OptoDrum experience is fully automated. Place a mouse on the platform inside the arena, and the OptoDrum will present slowly rotating stripe patterns to the animal. Its behavior is monitored by a camera, and our software determines if the animal follows the stripe pattern with its head movement. The stripe pattern will be adjusted over time (made more difficult to be seen, e.g. by lowering the contrast), until the animal no longer shows the reflex-driven behavior. No training is necessary for the animal, and only very limited training is necessary for the user. The OptoDrum is incredibly easy to use, right out of the box.

The following features are available:

- Automated detection of gaze direction with freely moving animals in a non-static illuminated background.
- Automated adjustment of stimulus pattern by software
- Automated behavioral analysis
- No training required for the animal



OPTODRUM

65300	OptoDrum: Automated Measurement of the Optomotor Reflex, Mouse
65310	OptoDrum: Automated Measurement of the Optomotor Reflex, Rat

ANY-maze Bundles



ANY-maze Tracking Bundle Options

Your complete solution for behavior testing!

ANY-maze Tracking Bundle Includes:

(you supply the computer and maze/apparatus)

- ANY-maze License
- Camera
- Camera Accessories (lens, mount, cables)

OPEN FIELD BUNDLES

68021	Open Field ANY-maze Bundle, Mouse
68021L	Open Field ANY-maze Bundle, Mouse, Laptop
68022	Open Field ANY-maze Bundle, Rat
68022L	Open Field ANY-maze Bundle, Rat, Laptop

RADIAL-ARM MAZE BUNDLES

68006	Radial-Arm Maze ANY-maze Bundle, 8-arm, Mouse, Desktop Computer
68006L	Radial-Arm Maze ANY-maze Bundle, 8-arm, Mouse, Laptop Computer
68007	Radial-Arm Maze ANY-maze Bundle, 8-arm, Rat, Desktop Computer
68007L	Radial-Arm Maze ANY-maze Bundle, 8-arm, Rat, Laptop Computer

FORCED-SWIM BUNDLES

68019	Porsolt Forced-Swim Test ANY-maze Bundle, Desktop Computer
68019L	Porsolt Forced-Swim Test ANY-maze Bundle, Laptop Computer

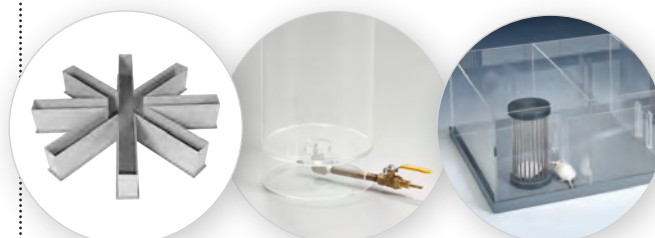
SOCIABILITY BUNDLES

68020	Sociability ANY-maze Bundle Package, Desktop Computer
68020L	Sociability ANY-maze Bundle Package, Laptop Computer

ZERO-MAZE BUNDLES

68016	Zero-Maze ANY-maze Bundle, Mouse, Desktop Computer
68016L	Zero-Maze ANY-maze Bundle, Mouse, Laptop Computer
68017	Zero-Maze ANY-maze Bundle, Rat, Desktop Computer
68017L	Zero-Maze ANY-maze Bundle, Rat, Laptop Computer

See pages 122-136 for full maze descriptions and dimensions.



T-MAZE BUNDLES

68012	T-Maze ANY-maze Bundle, Mouse, Desktop Computer
68012L	T-Maze ANY-maze Bundle, Mouse, Laptop Computer
68013	T-Maze ANY-maze Bundle, Rat, Desktop Computer
68013L	T-Maze ANY-maze Bundle, Rat, Laptop Computer

Y-MAZE BUNDLES

68014	Y-Maze ANY-maze Bundle, Mouse, Desktop Computer
68014L	Y-Maze ANY-maze Bundle, Mouse, Laptop Computer
68015	Y-Maze ANY-maze Bundle, Rat, Desktop Computer
68015L	Y-Maze ANY-maze Bundle, Rat, Laptop Computer

ELEVATED PLUS-MAZE BUNDLES

68004	Elevated Plus-Maze ANY-maze Bundle, Mouse, Desktop Computer
68004L	Elevated Plus-Maze ANY-maze Bundle, Mouse, Laptop Computer
68005	Elevated Plus-Maze ANY-maze Bundle, Rat, Desktop Computer
68005L	Elevated Plus-Maze ANY-maze Bundle, Rat, Laptop Computer

WATER MAZE BUNDLES

68001	Water Maze ANY-maze Bundle, Mouse, Desktop Computer
68001L	Water Maze ANY-maze Bundle, Mouse, Laptop Computer
68002	Water Maze ANY-maze Bundle, Mouse/Rat, Desktop Computer
68002L	Water Maze ANY-maze Bundle, Mouse/Rat, Laptop Computer
68003	Water Maze ANY-maze Bundle, Rat, Desktop Computer
68003L	Water Maze ANY-maze Bundle, Rat, Laptop Computer

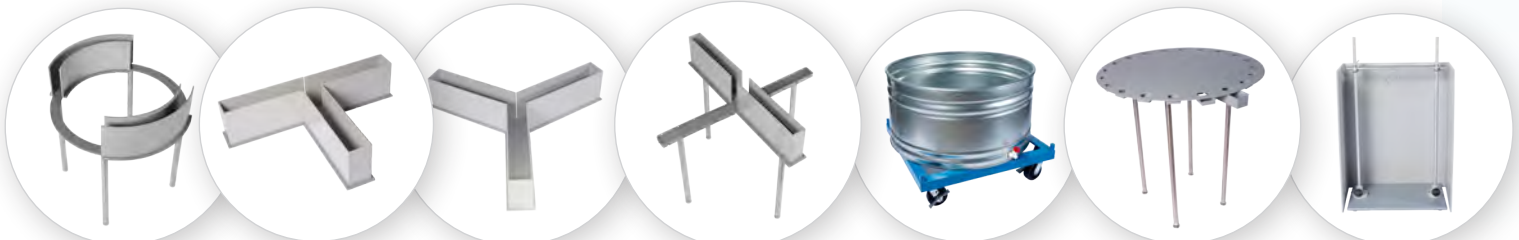
BARNES MAZE BUNDLES

68010	Barnes Maze ANY-maze Bundle, Mouse, Desktop Computer
68010L	Barnes Maze ANY-maze Bundle, Mouse, Laptop Computer
68011	Barnes Maze ANY-maze Bundle, Rat, Desktop Computer
68011L	Barnes Maze ANY-maze Bundle, Rat, Laptop Computer

TAIL-SUSPENSION BUNDLES

68018	Tail-Suspension ANY-maze Bundle, Desktop Computer
68018L	Tail-Suspension ANY-maze Bundle, Laptop Computer

Save money when purchasing an **ANY-maze Bundle!**
Special Bundle **discount** included in price.



NEW! Ugo Basile Agora Maze | page 141



NEW! Ugo Basile Thermal Gradient Ring | page 142



NEW! Ugo Basile Operon Instrument | page 152



Stoelting is the **Exclusive** North American **Distributor** of **Ugo Basile** products!

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60441 Ugo Basile Agora Maze

NEW!

Ugo Basile Agora Maze

The Ugo Basile Agora Maze is a new social interaction cage, designed after the SocioBox Method. The main principle is based on free choice by a subject mouse to spend time in any part of an open circular arena attached to 5 cubicles. Ideal for videotracking with ANY-maze!

The apparatus comes complete with central arena and 5 cubicles with blank walls. Detachable clear sliders divide each cubicle, and holes in the clear panels permit the exchange of odors.

UGO BASILE AGORA MAZE

60440

Agora maze, sociability apparatus for mice + ANY-maze Software

60441

Agora maze, sociability apparatus for mice, NO Software

Waterwheel Forced Swim Test

Ugo Basile's Waterwheel Forced Swim Test is an automated alternative to the Porsolt Forced Swim Test. The Waterwheel Forced Swim Test consists of a water tank with a water wheel positioned across the center. Animals placed in the tank will attempt to escape by climbing on to the wheel, causing it to turn. The number of turns of the wheel provide an objective measure of escape behavior, eliminating the subjectivity of immobility measurements. Rotation encoder and temperature sensor included.



ANY-maze Driven

Use with ANY-maze to automatically score number of rotations and perform statistical analysis.

Main Features:

- Compact and user friendly
- Automate up to 40 tests, simultaneously
- Eliminates subjectivity of immobility measurement
- Connects to ANY-maze for automated scoring and completed data analysis
- Continuous water temperature feedback

WATERWHEEL FORCED SWIM TEST

60165

Forced Swim Test with Water Wheel, w/o Software

60165S

Forced Swim Test with Water Wheel, Software



ugo basile
PRODUCT



Connect up to
40 units on the
same PC for
high-throughput
screening of
antidepressants.

Thermal Gradient Ring

NEW!

Ugo Basile Thermal Gradient Ring (TGR)

Introducing the Ugo Basile Thermal Gradient Ring (TGR) for mice, a novel device for the analysis of comprehensive thermal preference phenotyping. The TGR consists of a circular track that creates a temperature gradient between two set temperature extremes. The mouse is able to freely move across each zone while ANY-maze records and analyzes the preference behavior.

Main Features

- Thermal Insulated Aluminum Ring (runway ID 45cm, OD 57cm)
- Two heating devices to establish symmetric gradient
- Circular design guarantees bias-free, reproducible data—no spatial cues or border effects
- Creates 12 zones per side ($\Delta \approx 2.3^\circ\text{C}$ between each zone)
- Includes B/W USB camera and set of 4 dual (visible/I.R.) lights
- Thermal Gradient Ring Mode in ANY-maze for easy protocol set up

Video recording and analysis is performed through ANY-maze Video Tracking Software. The TGR simply connects to your computer via USB and is recognized as an I/O device in ANY-maze. The temperature of all 12 zones is monitored in real time through ANY-maze by the 4 thermocouples embedded in the TGR. Data output includes: preference temperature, time spent in each zone, and percent of time spent above the given temperature.



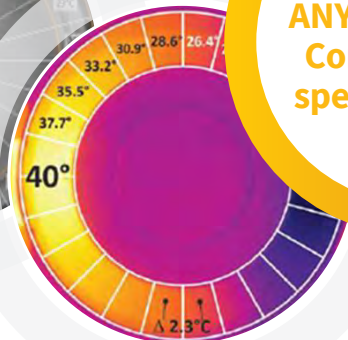
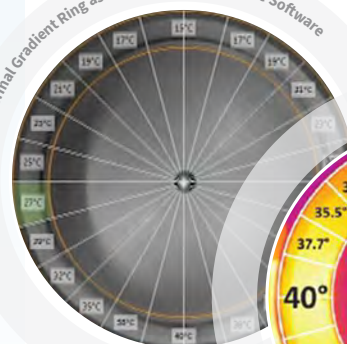
ANY-maze Driven

THERMAL GRADIENT RING SYSTEM

65400	Thermal Gradient Ring System
--------------	------------------------------

**Already an
ANY-maze user?
Contact us for
special pricing!**

Thermal Gradient Ring as seen through ANY-maze Software





Ugo Basile Combination Hot/Cold Plate Analgesia Instrument

The Ugo Basile Hot/Cold Plate is used to test thermal pain response in mice and rats. Two working modes allow for testing at a fixed or increasing/decreasing temperature (RAMP). All settings programmed with the easy to use touch screen controller.

Features:

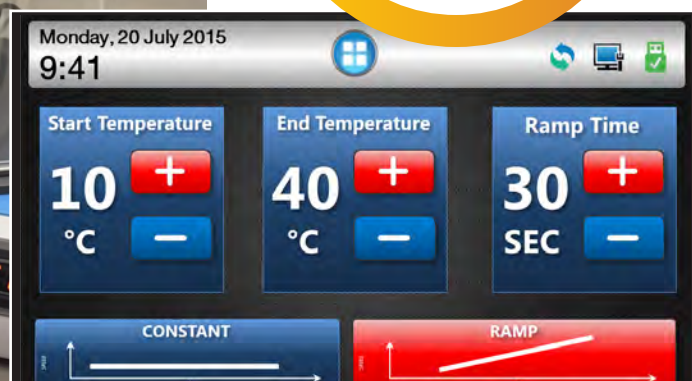
- OPERATING TEMPERATURE: -5.0°C to 65.0°C in steps of 0.1°C , with a precision of 0.5°C
- OPERATING MODES: fixed or ramping temperature
- X-PAD SOFTWARE included
- DATA PORTABILITY: via the USB Memory-Key, included

COMBINATION HOT/COLD PLATE ANALGESIA INSTRUMENT

55075	Combination Hot/Cold Plate Analgesia Instrument
55076	Optional Hot Plate only
55200	Thermal Preference



Can be used
as hot plate or
cold plate





55370 Plantar Analgesia Instrument

Ugo Basile Thermal Plantar Analgesia Instrument

Measures paw sensitivity to heat stimulation

The Ugo Basile Plantar Analgesia Instrument is an advance in methodology for assessing pain sensitivity in laboratory animals.

The instrument comes complete with the sliding infrared source; a glass platform; multiple configuration animal enclosure; a controller, and a manual. The Multiple Configuration Animal Enclosure is appropriate for Mice and Rats and provides maximum flexibility.

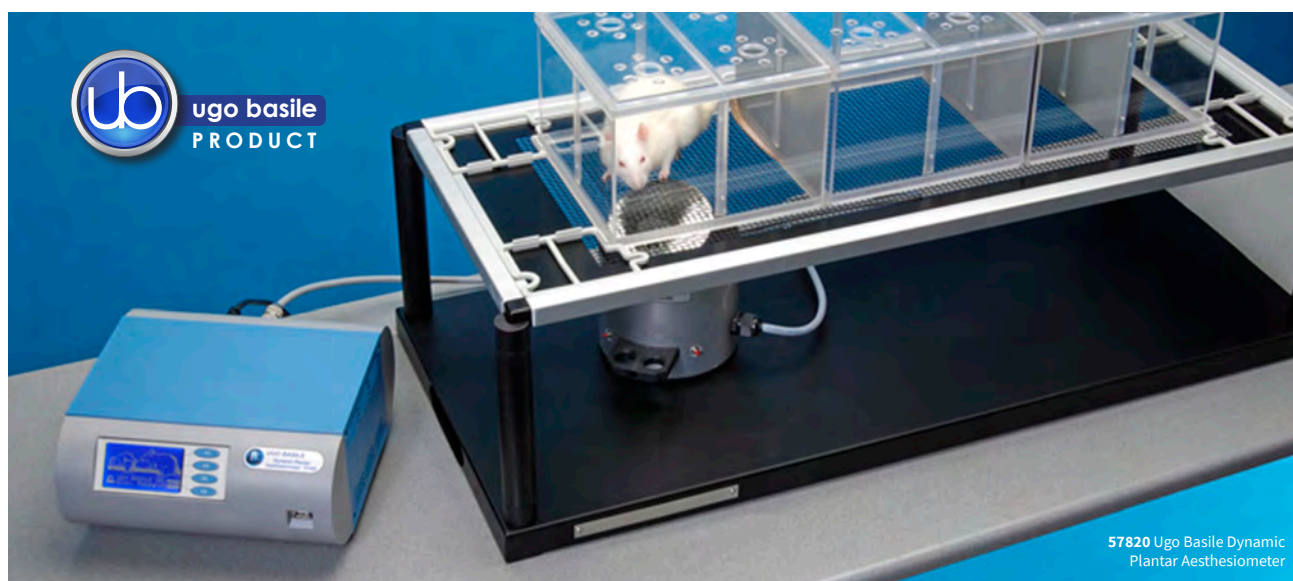
Use Durham
Animal Restainers
for orofacial
stimulation.

57102 Durham
Animal Restraint



UGO BASILE PLANTAR ANALGESIA INSTRUMENT

55370	Plantar Analgesia Instrument, Mice and Rats
57390	Heat-Flux Radiometer
57102	Durham Animal Restainers, Set of 2



57820 Ugo Basile Dynamic Plantar Aesthesiometer

Ugo Basile Dynamic Plantar Aesthesiometer

For assessment of animal sensitivity to mechanical touch on the paw

- Computer compatibility—direct connection to a PC
- Readout multifunction graphic display
- Memory stick included for data reporting and portability

The Ugo Basile Dynamic Plantar Aesthesiometer is a microprocessor-controlled unit. The experimental data, stored in its internal memory, can be directly exported to the PC via a USB or serial port. The 57820 is provided with a USB memory key, and dedicated software to record all the experimental data of one or more sessions, and to program the experiment layouts from a remote PC.

UGO BASILE DYNAMIC PLANTAR AESTHESIOMETER

57820	Ugo Basile Dynamic Plantar Aesthesiometer, for Rats and Mice
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57814 Ugo Basile Electronic von Frey™

Ugo Basile Electronic von Frey™

The Ugo Basile Electronic von Frey Instrument provides automated assessment of threshold to mechanical stimuli in mice and rats. Mechanical allodynia and hypersensitivity is assessed by stimulating the plantar surface of the animal's hindpaw and latency to paw withdrawal is recorded automatically.

Instrument includes an electronic unit, touch stimulator and software used to compare applied force with desired target force. Optional base assembly includes perforated metal base, with stand, and multi-configuration animal enclosures.

UGO BASILE ELECTRONIC VON FREY™

57814	Ugo Basile Electronic von Frey™
57816	Base Assembly for Plantar Stimulation



Pressure Application Measurement (PAM)

The Pressure Application Measurement (PAM) device is a novel, easy-to-use tool for measuring mechanical pain threshold in experimental joint hypersensitivity models in rodents. The PAM device has been designed and validated specifically for the mechanical stimulation and assessment of joint pain, ideal for detecting arthritis in rats and mice.

UGO BASILE PRESSURE APPLICATION MEASUREMENT

58500

Ugo Basile PAM Meter,
Mouse and Rat

Ugo Basile Plethysmometer

The Ugo Basile™ Plethysmometer is a microprocessor-controlled volume meter that has long been the standard instrument for measurement of inflammatory edema in the rat and mouse paw.

UGO BASILE PLETHYSMOMETER

57140

Ugo Basile Plethysmometer,
Mice and Rats

If your main power supply is 220V, add a "V" to the product number.



Ugo Basile Paw Pressure Analgesia Instrument

The Paw Pressure Analgesia Instrument is for the Randall-Selitto Test, which requires the application of increasing pressure on the paw between a flat surface and a blunt pointer. It is usually used with animals with one paw inflamed, and one untreated paw, to evaluate drugs for analgesic action.

UGO BASILE PAW PRESSURE ANALGESIA INSTRUMENT

57215

Ugo Basile Paw Pressure
Analgesia Instrument

57222

Ugo Basile Paw Pressure Analgesia
Instrument, Recording

57206

Ugo Basile Extra Disc Weight

Ugo Basile Tail-Flick Analgesia Instrument

The Ugo Basile Tail Flick Instrument is used to automatically assess thermal nociceptive threshold in mice and rats. An infrared heat stimulus is focused on the animal tail and reaction time (time to flick) is automatically recorded. An optional Tilted Mouse Restrainer (57369) is necessary to keep the mouse tail on the emitter until stimulated.

UGO BASILE TAIL FLICK ANALGESIA INSTRUMENT

57360	Ugo Basile Analgesia Instrument, Tail Flick
57369	Tilted Mouse Restrainer
57390	Heat-Flux Radiometer



For **precise calibration** of infrared analgesia meters. To calibrate the I.R. emission of Ugo Basile Plantar Test (144) and Tail-Flick.



Ugo Basile Grip Strength Meter

The Ugo Basile Grip Strength Meter automatically measures fore- and hindlimb grip strength in mice and rats. Peak pull force achieved by the limb is automatically measured and displayed. Each instrument includes control unit, base plate with grasping bar, and software used for comparing pulling force with desired target force rate.

UGO BASILE GRIP STRENGTH METER

57107	Ugo Basile Grip Strength Meter
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Ugo Basile Rota-Rod

Ugo Basile Rota-Rod

Ugo Basile designed the first Rota Rod in the 1960s and with thousands of scientific references, is considered the industry leader in Rota Rod technology. The next generation Rota Rod from Ugo Basile combines the same functionality of the original Rota-Rod with additional new features:

- Silent Operation
- Stainless Steel Trip Plate for Easy Cleaning
- Touch Screen Display for Programming Experimental Parameters and Data Collection

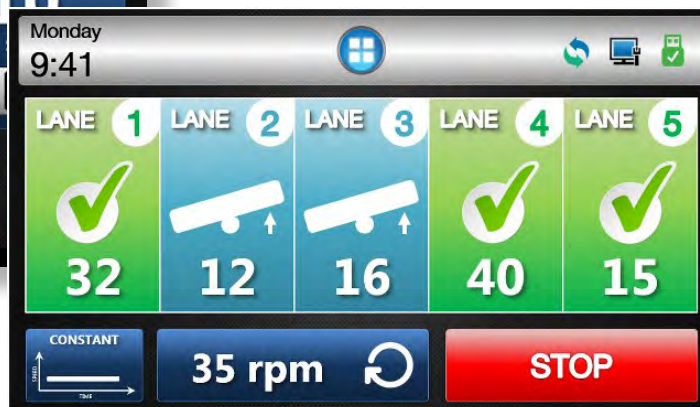
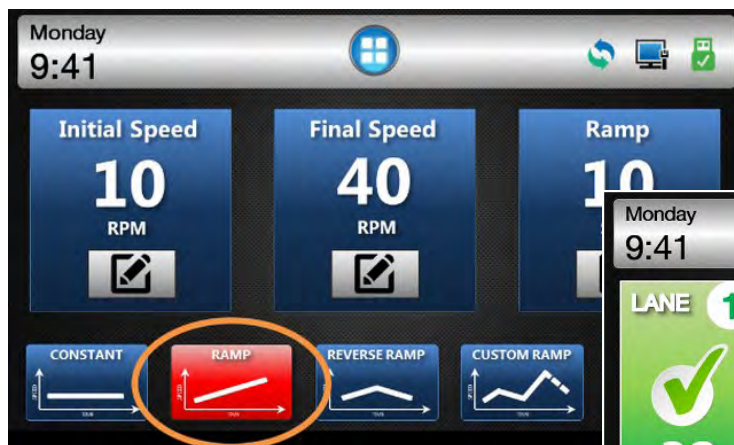
Mouse Rota Rod consists of five rotating cylinders and allows for testing five mice, simultaneously. Height to fall is 16cm. Rat Rota Rod consists of four rotating cylinders and allows for testing four rats, simultaneously. Height to fall is 30cm.

Settings

- Speed: 5-80 RPM, in steps of 1RPM
- Mode: Constant speed, ramp (accelerating) and multi-step ramp
- Rotation: Forward, reverse and rocking



For another method, see page 127 for Stoelting's Parallel Rod!



Zero Noise!
XPAD Software
Included.

UGO BASILE ROTA-ROD

57624	Ugo Basile Rota-Rod for Mice
57625	Ugo Basile Rota-Rod for Rats
57626	Ugo Basile Rota-Rod for Rat and Mouse

Ugo Basile Activity Wheel

The Ugo Basile Activity Wheel is used to monitor daily activity in mice and rats. The stainless steel wheel is housed in a clear polycarbonate cage with stainless steel wire lid to accommodate food and water for circadian studies. Each running wheel is equipped with a magnetic switch and LCD counter to record number of revolutions. Running wheel cages without magnetic switch and LCD counter are also available.

The Rat Cage measures 48(h)x32(w)x47(d) cm with a wheel diameter of 35cm. Wheel bars are 2mm and spaced 8.8mm apart. The Mouse Cage measures 37(h)x26(w)x38(d) cm with a wheel diameter of 25 cm. Wheel bars are 2mm and spaced 7mm apart.

UGO BASILE ACTIVITY WHEEL

57434	Activity Wheel for Rat, with Counter
57435	Activity Wheel for Rat, without Counter
57436	Activity Wheel for Mouse, with Counter
57437	Activity Wheel for Mouse, without Counter



Ugo Basile Rotometer for Mice

Measures Rotational Behavior in Untethered Mice

The Ugo Basile Rotometer is widely used to assess rotational behavior commonly associated with:

- Differential expression of neurotransmitter levels (such as GABA or dopamine).
- Developmental anomalies
- Anxiety/stress
- Drug exposure, drug abuse or withdrawal
- Lesioning, traumatic brain injury or spinal cord damage

Encapsulated magnets taped to the mouse tail, surgically implanted or injected subcutaneously, are used to automatically count clockwise and counterclockwise rotations. As clockwise and counterclockwise rotations accrue, they are displayed on the front panel of the Rotometer and stored in the internal memory of the instrument. Each Rotometer includes an cylinder animal restrainer and four magnets (2 ea. 2x12mm and 2x15mm).

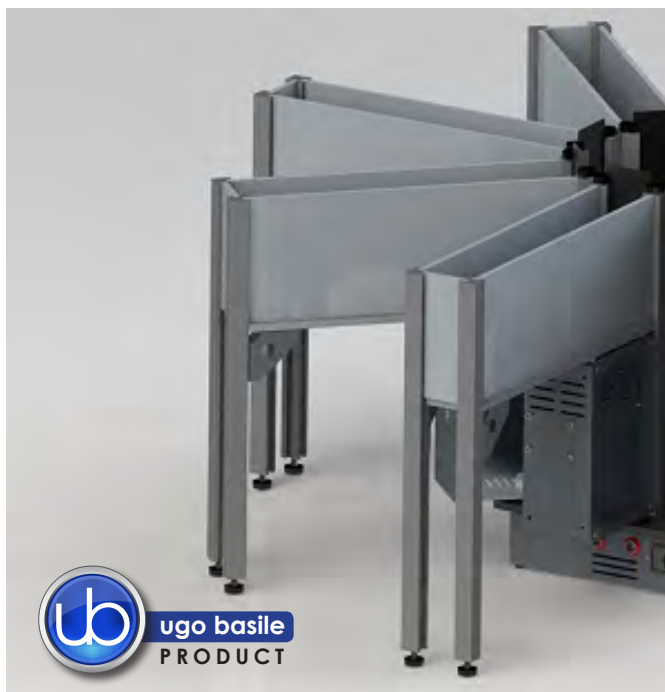
UGO BASILE ROTOMETER FOR MICE

53000	Rotometer Rodent Rotation Counter
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Ugo Basile Multi-Maze System

**Automate with
ANY-maze!
See page 114.
Smooth, silent
operation.**



Ugo Basile Multi-Maze System

The Ugo Basile Multi-Maze for Mice is a modular system providing complete automation of spatial memory experiments including: Y-maze, T-maze and 8-arm Radial Arm Maze.

Use the Ugo Basile Multi-Maze to:

- Assess spatial memory
- Test basic working memory
- Discriminate working from reference memory
- Evaluate impairments in the working memory

Proprietary sliding doors retract into the maze floor smoothly and silently without disrupting the animal during testing. This sliding mechanism combined with the non-reflective, high contrast maze material provides optimal results with ANY-maze Video Tracking Software (sold separately as Product Number 60000, see page 114).



MULTI-MAZE SYSTEM

67503	Ugo Basile 3-arm Standard Multi-Maze (Y-maze), Mouse
67504	Ugo Basile 3-arm Multi-Maze with Automated Start Compartment (Y- and T-mazes), Mouse
67505	Ugo Basile 8-arm Multi-Maze (Radial Arm and Y-mazes), Mouse

67506	Ugo Basile 3-arm Standard Multi-Maze (Y-maze), Rat
67507	Ugo Basile 3-arm Multi-Maze with Automated Start Compartment (Y- and T-mazes), Rat
67508	Ugo Basile 8-arm Multi-Maze (Radial Arm and Y-mazes), Rat

Ugo Basile Treadmill for Mice and Rats

Introducing Ugo Basile's Next Generation of Rodent Treadmills. Compact and user-friendly, the NEW Ugo Basile Treadmill can be used for both rats and mice. Experimental parameters are programmed into easy-to-use touch screen display. Endurance, distance (absolute and relative) and speed are automatically measured and recorded.

Features:

- Speed: from 3 to 100m/min, in steps of 1m/min amps
- Slope: positive (uphill) or negative (downhill), from -25 to +25°, in 5° steps
- Shock: from 0-2mA (in 0.1mA steps), included
- Modes: constant, accelerating, custom ramps



UGO BASILE TREADMIL FOR MICE AND RATS

57630	Ugo Basile Treadmil for Mice and Rats
57631	Ugo Basile Treadmil, Mouse
57632	Ugo Basile Treadmil, Rat

Same device to
test both Mice
and Rats.
XPAD Software
Included!

Treadmil with Included Rat Lanes



Included Shock and Detection Unit

Intra/Extra-Dimensional (ID-ED) Attentional Set-Shift

NEW!

Ugo Basile Operon ANY-maze Driven

The Ugo Basile Operon is the ultimate intra/extra-dimensional (ID-ED) attentional set-shifting task for mice. This novel ID/ED Operon task is an effective preclinical tool for studying the executive dysfunctions and cognitive symptoms of psychiatric disorders. A dedicated version of ANY-maze software automatically manages all the Operon tools following a precompiled protocol and collects the data.

Features:

- Automated tridimensional stimulation (visual, odor, and texture)
- Two compartments each with an operant wall with lights, odor delivery, and revolving door
- Odor delivery system (66510) includes 2 channels and 10 independent flow meters
- Left and right nose pokes and pellet dispenser in each compartment
- Fully automated system through ANY-maze Video Tracking Software—includes precompiled protocol!

UGO BASILE OPERON

66500	Ugo Basile OPERON
66510	Ugo Basile OI factory System for OPERON
66510	Ugo Basile Air Control System for OPERON

**Already an
ANY-maze user?
Contact us for
special pricing!**



ANY-maze/Ugo Basile Fear Conditioning System

**Includes
domestic training
and installation!***

*If you are outside the U.S. or Canada,
please contact Stoelting for pricing
and installation details.



ANY-maze/Ugo Basile Fear Conditioning System

The ANY-maze/Ugo Basile Fear Conditioning System is a state-of-the-art system for accurately detecting immobility, a behavior commonly associated with fear. The new design utilizes an on-board controller, allowing full atomization of all variables (sound, shock, and light) through ANY-maze.

The system employs ANY-maze Fear Conditioning Software to conduct contextual and auditory-cued fear conditioning paradigms and automate analysis of:

- Total freezing time
- Number of freezing episodes
- Duration of freezing episodes
- Latency between stimuli and freezing event

The system includes the following:

- ANY-maze Fear Conditioning Software
- New, on-board controller
- Shock-100Hz-40KHz; 1-150dB or white noise
- Sound-Constant Current 0.1-2.9mA in 0.1mA steps

- Dual visible/I.R. light
- Camera and Camera Lens
- Animal Enclosure with Electrified-Grid Floor
- Sound-Attenuating Chamber
- Context Kit to Alter Enclosure Environment



Close-Up of
Animal Enclosure



UGO BASILE FEAR CONDITIONING SYSTEMS

60461S	Fear Conditioning System, 1 Mouse
60462S	Fear Conditioning System, 2 Mice
60463S	Fear Conditioning System, 4 Mice
60464S	Fear Conditioning System, 1 Rat
60465S	Fear Conditioning System, 2 Rats
60466S	Fear Conditioning System, 4 Rats

Ugo Basile Conditioning Systems

Ugo Basile's Beehive Cage-Manager System

Conditioning experiments have
never been so easy!

**Control five conditioning tests with Ugo Basile's
beehive cage-manager system:**

- Passive Avoidance (Step-Down or Step-Through)
- Active Avoidance
- Learned Helplessness
- Startle Response/PPI



Ugo Basile Conditioning Systems



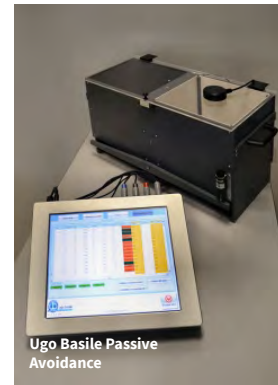
Ugo Basile Startle Response



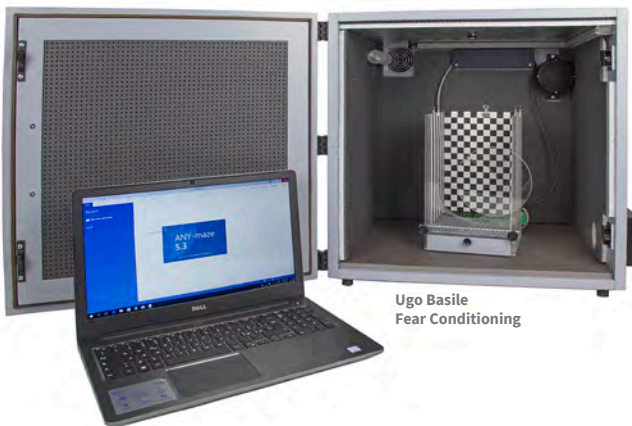
Ugo Basile Learned Helplessness



Ugo Basile Passive Avoidance Step-Down



Ugo Basile Passive Avoidance



Ugo Basile Fear Conditioning

Each system includes a touch-screen controller for programming experimental settings (sound, light, shock) and data export, and one test-specific cage. Up to four cages can be managed with a single control unit. Software key required, call for details.

UGO BASILE BEEHIVE CAGE-MANAGER SYSTEM

57553	Passive Avoidance - Step Through
57560	Passive Avoidance - Step Down
55532	Active Avoidance
57500	Learned Helplessness
58000	Startle response

Manage all conditioning cages with a single controller!

General Set Up
Protocol
Startle Detection
Test
Result
Help

PrePulse
Pulse
Stimuli
Timeline

NO STIM [min 20 ms] 200 ms
PULSE [min 20 ms] 100 ms
PREPULSE [min 20 ms] 100 ms
PPI PREPULSE + IPI + PULSE
IPI MIN 500 ms MAX 700 ms

Load/Save Protocol
Load Cancel
Protocol Name:
Save

Connected Cage1
Cage2
Cage3
Cage4

ub ugo basile
TRANSFORMING IDEAS INTO INSTRUMENTS
Version 2.0.1



Designed for inducing convulsions.

Ugo Basile Electroconvulsive Device

The Basile Electroconvulsive Device is designed for inducing convulsions in research animals. Consistent, reproducible current levels are produced by feedback circuitry that adjust for variance in impedance of the contact from animal to animal.

The impedance to the animal can be pre-measured and displayed, and a warning signal flashes if the impedance is too great to deliver the desired current level. The Electroconvulsive Device is supplied with auricular (ear lobe) electrodes.

UGO BASILE ELECTROCONVULSIVE DEVICE

57800	Basile Electroconvulsive Device
57802	Auricular Electrodes (included)
57803	Corneal Electrodes, optional
57805	Foot Pedal, optional
57808	Biphasic Unit, optional

If your main power supply is 220V, add a "V" to the product number.

Ugo Basile Lesion-Making Device

This compact, solid state direct current (DC) Lesion Maker has been designed for the production of localized lesions in small animals. The current generator is protected against short circuit, which prevents the electronics from getting damaged when the electrodes accidentally come into contact with each other.

The Basile Lesion Making Device provides constant DC current in mA from 10 to 99.99 mA. The pulse duration may be timed by the instrument between 1 and 99 seconds, or manually controlled.

A yellow LED warns when the impedance is too high for the preset current. The current generator is protected against accidental short circuit of the output. Maximum electrode resistance is 20 M Ω (10 μ A) down to 2 K Ω (100mA) and Compliance Voltage is from 1-99V.



53500 Ugo Basile Lesion-Making Device

Comes complete with set of three output plugs.



UGO BASILE LESION-MAKING DEVICE

53500	Basile Lesion-Making Device
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If your main power supply is 220V, add a "V" to the product number.

Startle-Response Laboratory (SR-LAB™) System

The Startle-Response Laboratory (SR-LAB) System is the world's most widely-used startle-reflex behavioral research system, and the most successful for measuring Startle Habituation, Pre-Pulse Inhibition (PPI) and Fear Potentiated Startle (FPS).

Execute any-and all-startle-reflex testing paradigms using the SR-LAB Software and specialized additional kits.

The SR-LAB basic system includes:

- Test cabinet made of composite ABS plastic
- Animal enclosure in choice of standard sizes
- Power supply
- Input and Output cables
- Animal enclosure base
- Software and User Manual
- Software utilities for data analysis

Please specify Animal Enclosure upon ordering:

- Small Animal Enclosure-10-25g
- Small/Medium Animal Enclosure-25-50g
- Medium Animal Enclosure-50-150g
- Large Animal Enclosure-150-450g
- X-Large Animal Enclosure-450-800g

The world's most widely used startle-response system!



STARTLE-RESPONSE LABORATORY SYSTEMS

59800	SR-LAB System	
59802	SR-LAB System, Additional Unit	
59817	SR-LAB Software, FDA PART 11 COMPLIANCE	



Run a wide range of avoidance tests with Gemini's flexible hardware and software!

Gemini Active and Passive Avoidance System

The GEMINI Active and Passive Avoidance System was designed specifically to test active and passive avoidance in rats and mice. Available in two configurations, shock or shock and air puff, GEMINI's unique design allows you to run up to 8 independently-operated stations directly from your laptop! The GEMINI animal shocker scrambles the shock across the grid floor, preventing the animal from determining a pattern, leading to more accurate responses.

GEMINI ACTIVE AND PASSIVE AVOIDANCE SYSTEM

57875	Gemini Avoidance System, Shock, Mouse and Rat	
57880	Gemini Avoidance System, Shock and Air Puff, Mouse and Rat	
57875M	Gemini Avoidance System, Shock, Mouse only	
57880M	Gemini Avoidance System, Shock and Air Puff, Mouse only	

Grip Strength, Pain & Inflammation

Touch Test™ Sensory Evaluator

The Semmes-Weinstein von Frey Aesthesiometer is used for clinical and preclinical assessment and diagnosis of hyper- or hypoesthesia.

The Touch Test Sensory Evaluator Kit features:

- Set of 20 Nylon Monofilaments
- Force Range 0.008-300g
- Retractable Mechanism to Protect Filament

The Semmes-Weinstein monofilaments provide an approximate logarithmic scale of actual force and a linear scale of perceived intensity. Rodents exhibit a paw withdrawal reflex when the paw is unexpectedly touched. The Touch Test Sensory Evaluator can be used on plantar surfaces of the mouse or rat paw. The animal indicates sensation by pulling back its paw. Kit includes set of 20 retractable monofilaments and protective case. Optional base assembly includes perforated metal base with stand and multi-configuration animal enclosures. Individual filaments also available for purchase.



58011 TouchTest™ Sensory Evaluation Kit

TOUCH TEST™ SENSORY EVALUATOR

58011	Touch Test™ Sensory Evaluator Kit
57816	Base Assembly for Plantar Stimulation

19117 Smedley Hand Dynamometer



Smedley Hand Dynamometer

Grip strength measurement

The Smedley Hand Dynamometer is a hand-held instrument for measuring grip strength, fatigue rate and recovery rate.

The handle adjusts to fit the grip length of the hand. The Smedley Hand Dynamometer measures grip

18020 JVP Domes Complete Set



JVP Domes

The JVP Domes are the most sensitive method of measuring human tactile spatial resolution.

The set includes 8 acrylic probes with bar/groove widths measuring 0.35, 0.5, 0.75, 1.0, 1.25, 1.5, 2.0 and 3.0mm. Each probe has a columnar handle and

a dome shaped head. The head has an alternating ridge/slot pattern of different width for each probe. The ridged head is pressed against the skin, and the patient/subject must report the alignment of the ridges, longitudinal or transverse. An extensive bibliography is available, including normative data on various body surfaces. Set comes with an illustrated manual with several citations.

JVP DOMES

18020	Complete Set
18021	Blank Dome
18022	2.5mm
18023	3.5mm
18024	4.0mm
18025	4.5mm
18026	5.0mm
18027	6.0mm
18028	8.0mm
18029	10.0mm
18030	12.0mm

strength up to 100 kilograms, in 500 gram graduations. Two dial hands move up together, but one “freezes” at the maximum grip achieved, while the other follows the grip up or down to show the current squeeze strength.

SMEDLEY HAND DYNAMOMETER

19117	Smedley Hand Dynamometer
19118	MRI-Compatible Hand Dynamometer

NEW VERSION! Automated Scratch Counting for Mice

The real-time, long-term, quick, and accurate quantification of scratching behavior in mice

Scratching behavior is a critical biomarker for many laboratories, and important for drug development. Quantification of scratching behavior manually is subjective. The novel Automated Scratch Counting Instrument for Mice calculates frame-to-frame differences by capturing the animals' behavior with image processing software.

The high-speed camera contains an image-processing system enabling real-time quantification of scratching behavior of mice. Records and analyzes scratching behavior continuously for up to 24 hours.

The recording platform has a built-in infrared light panel. Records scratching behavior, in a natural state, using the invisible near-infrared light. This system allows evaluating of scratching behavior not only in regular light but also in the darkness.

SCRATCH COUNTING FOR LABORATORY ANIMAL-REAL TIME

55600	Automated Scratch Counting, Mice
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Output Data:

- Number of scratching behaviors
- Duration of scratching behavior
- Graphical representation of scratching behavior
- Test up to 4 mice at one time



**Call or email
us to schedule a
demonstration!**

Nano Tag

Continuously record activity and temperature for up to 60 days with nano tag. Smaller than the size of a dime, nano tag is an implantable single-use recording device for mice. The nano tag's internal three-axis accelerometer and temperature sensor automatically collects and stores activity and temperature data. Data from animals housed in the same cage can be collected simultaneously!

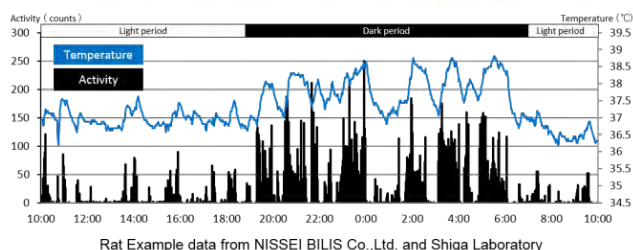
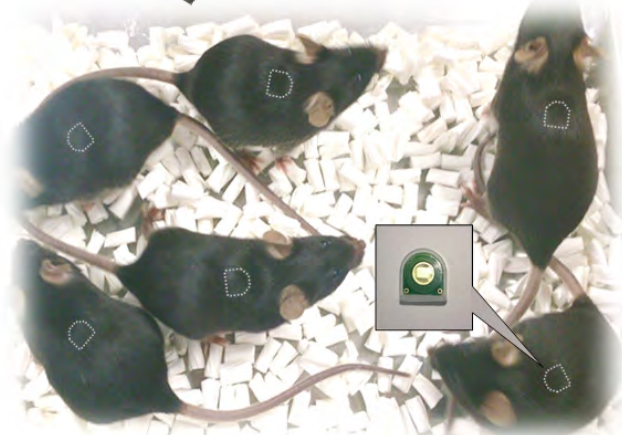
Software is required.

Features:

- Three Recording Modes: Loop, Memory and Timer
- Small and Lightweight
- Record from Multiple Animals Simultaneously

NANO TAG

56745	NanoTag for Mice and Rats (5/pk)
56745S	NanoTag Viewer Software



Electrophysiology



HRP in tris buffer, pH 8.6; rat; lateral habenula. 2 μ A pulsed current, 15 minutes, 12 μ pipette.



Tritiated prolineleucine. VM nucleus, thalamus. 1 μ A pulsed current, 10 minutes, 20 μ pipette.

NEW LOOK!

Digital Midgard™ Precision Current Source

- Touch screen programmability
- Universal power supply
- Internal memory
- Integral high-voltage labels
- Real-time feedback of current status
- Error warning for current interrupt
- Error warning for out-of-range

For Iontophoresis

The latest generation of the popular precision current source, designed at M.I.T. for the iontophoresis of neural transport tracers such as horseradish peroxidase (HRP) or tritiated amino acids into neural tissue, is now available from Stoelting. It may also be used to make small lesions, and in applications requiring precise current control through high impedance.

Compliance Voltage

The Midgard™ features a high compliance voltage (3000 V) for injections from very small, or partially-clogged, pipette tips. The output current level can be regulated to $\pm 0.5\%$, from 0.0 to 200 MegOhms.

Pulsed or Continuous Output

Pulsed output helps avoid clogging or polarization of the tip of the pipette. The researcher may select pulsed or continuous current with a switch. The pulsed on/off times can be varied from 0.5 to 24 seconds.

51599 Digital Midgard™
Precision Current Source 2.0



A touchpad switch allows reversing polarity. This is useful when using a retaining current to hold the pipette contents in the pipette during entry into the brain.

SPECIFICATIONS

OUTPUT

Output current:	2–25 μ A, set by touch pads
Compliance voltage:	3000 V
Load current accuracy:	0.5% at 0–200 MegOhms
Load current reproducibility:	0.25%
Polarity:	Positive or negative, user selected
Display resolution:	0.01 μ A
Output connectors:	Two integral H.V. Cables

PULSED MODE OPERATION

Pulse duration:	0.5 to 24 seconds, variable
Duty cycle:	Preset to 7 sec. on / 7 sec. off
Timing error:	$\pm 5\%$
Load current fall time:	0.1 sec.
Load current rise time:	Dependent on load resistance. For 7.0 mA through 200 MegOhms, rise time to 99% of set value is 1 sec.; over-shoot less than 5%.

MIDGARD™ PRECISION CURRENT SOURCE

51599	Digital Midgard™ Precision Current Source 2.0
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Visit “Electrophysiology” on our website, www.StoeltingCo.com to view instrument manual.

Laboratory Animal Ear Tags

- Ear tags are numbered from 1-100 (available up to 999)
- Available in 5 colors (1.Red 2.Green 3.Blue 4. Light Blue 5.Black)
- Once applied, they cannot be easily removed
- Laser-etched number provides durability
- Custom numbering available (contact for details)
- Easy-to-read
- Corrosion resistant



Small Animal Ear Tags are specially suited for use with small lab and research animals (mice, rats and other rodents). The lightweight easy-to-read tags allow for trouble-free identification.

Ear Tag Applicator (sold separately) is required for application. Please specify number sequence when ordering.



LABORATORY ANIMAL EAR TAGS (SHEET OF 100)

FOR MOUSE

56779	Ear Tag, Mouse, 5 Colors
56780	Ear Tag, Mouse, Red
56781	Ear Tag, Mouse, Green
56782	Ear Tag, Mouse, Blue
56783	Ear Tag, Mouse, Light Blue
56784	Ear Tag, Mouse, Black

FOR RAT

56785	Ear Tag, Rat, 5 Colors (20 each)
56786	Ear Tag, Rat, Red (Box of 100)
56787	Ear Tag, Rat, Green (Box of 100)
56788	Ear Tag, Rat, Blue (Box of 100)
56789	Ear Tag, Rat, Light Blue (Box of 100)
56790	Ear Tag, Rat, Black (Box of 100)
56791	Ear Tag Applicator

Please specify number sequence when ordering.

Ear Punch

Ear punches used for notching or punching mouse or rat ears at weaning for easy identification. The 56718 and 56719 have ergonomic handles for easy control. All punches are made of Stainless Steel. Instruments are for non-clinical use only (not for human use).

EAR PUNCH

56719	Ear Punch, 2mm hole, 4in
56717	Thumb Print Ear Punch, 2mm hole, 2in
56718	Ear Punch, 1mm hole, 4in



Animal Identification

Animal Markers

The Animal Marker was developed for easy, long-lasting identification of laboratory animals. Unlike permanent markers and art markers, which can contain chemicals harmful to animals, Animal Marker use “legal pigments,” which are approved and regulated by the Japanese Ministry of Health, Labor and Welfare, for use in food, drugs and cosmetics. These pigments are nontoxic and devoid of any hazardous materials. For use on the rodent’s coat. Color will not remain on the animal’s skin.

Features:

- Nontoxic and devoid of any hazardous materials
- A single marker can be used to mark 300-500 rats (depending upon animal size and/or applied area)
- Once applied, colors remain for 6-12 weeks
- Standard and fine tip markers available

ANIMAL MARKERS

50440	Animal Markers, Blue, Standard Tip, pk/2
50445	Animal Markers, Blue, Fine Tip, pk/3
50441	Animal Markers, Green, Standard Tip, pk/2
50446	Animal Markers, Green, Fine Tip, pk/3
50442	Animal Markers, Red, Standard Tip, pk/2
50447	Animal Markers, Red, Fine Tip, pk/3
50443	Animal Markers, Yellow, Standard Tip, pk/2
50448	Animal Markers, Yellow, Fine Tip, pk/3
50444	Animal Markers, Orange, Standard Tip, pk/2
50449	Animal Markers, Orange, Fine Tip, pk/3
50450	Animal Markers, Black, Standard Tip, pk/2
50451	Animal Markers, Black, Fine Tip, pk/3

Visit www.StoeltingCo.com for **full list** of marker and marking **ink color options!**

50440 Animal Markers, Blue, Standard Tip



Fine Tip Animal Markers



Standard Tip Animal Markers



NEW!

Vaginal Estrous Cycle Monitor

- The best method of determining proestrus stage
- Powerful tool for the improvement of reproduction efficiency
- Simple operation
- Battery operated

Does not affect reproduction or pregnancy rates.

The Rat Vaginal Impedance Monitor is designed to obtain precise information to determine the optimum day for mating during the rat estrous cycle.

The conventional method (vaginal smear method) is a troublesome procedure requiring skill, time and labor.

The electrical impedance of the epithelial cell layer of vaginal mucosa is measured at the frequency of 1 kHz by insertion of the probe into the vagina. In the proestrus stage significantly higher impedance is produced compared to that in the other stages of the estrous cycle. 3 kohm of impedance can be considered a standard for indicating proestrus stage. Measuring range is 0-19.9kohm.

The Rat Vaginal Impedance Monitor is a reliable time and labor-saving device. Operation is so simple a novice can easily use it.

Important Notice: The 59160 was developed exclusively for Rats. A Mouse probe is available, but test results can not be guaranteed.



SPECIFICATIONS

Range	0-19.9 kohm
Accuracy	+/- 1% +/- 1 digit
Display	LCD
Battery	4 Rechargeable Battery (Ni-MH) / 30 hr Battery Life
Dimensions	90W x 135D x 35mmH
Weight	Approximately 200g (battery excluded)

VAGINAL ESTROUS CYCLE MONITOR

59160	Electronic Vaginal Estrous Cycle Monitor, Rat
59161	Mouse Probe (50mm x 3.5mm O.D.)
59162	Replacement Rat Probe (55mm x 4.5mm O.D.)

Miscellaneous (Really Cool Stuff)



59150
Automated Milker,
Rat and Mouse



Automated Milker for Rat and Mouse

- Ideal for the analysis of breast milk composition

The Automated Milker provides researchers the ability to collect Rat/ Mouse milk directly from the teat. The Milker collects milk from lactating mothers by alternating negative and atmospheric pressures through two solenoid valves and a vacuum pump attached to a microcomputer.

Environmental pollutants, in particular carcinogenic substances and endocrine disrupting chemicals, are a worldwide concern. The influence that these substances have on babies and their development, through breast or cow milk, is of great concern. The ability to gather milk from Rats and Mice, widely used experimental animals, will aid in advancement of research in this area.

AUTOMATED MILKER FOR RAT AND MOUSE

59150	Automated Milker, Rat and Mouse
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U.S. & CANADA

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Fax: 630-860-9775 | Email: Neuro@StoeltingCo.com

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Email: info@StoeltingEurope.com

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NEW! Ugo Basile Agora Maze | page 145



NEW! Ugo Basile Operon Instrument | page 156



NEW! Ugo Basile Thermal Gradient Ring | page 146



**The Jackson
Laboratory**

*Leading the search
for tomorrow's cures*

Upcoming Event!

Join us for a 3-day workshop
learning surgical stereotaxic
techniques with mice at the
Jackson Laboratory!

Visit www.jax.org/stereotaxic
for workshop schedule and
to sign up!