

# MS-Stage Plate and Tool Holders

Electrophysiology experiments often require positioning of electrodes and perfusion devices within the confined space of a microscope stage. Utilize the small space efficiently with the **MS-Stage Plate** and **Tool Holder** devices.

## MS-Stage Plate and Tool Holder Features:

- \*Locking ball and socket swivel joint with all tool holders
- \*Powerful magnetic base anchors holders anywhere on plate
- \*Durable powder-coated steel construction



**MMUTOOOL-H:** Universal tool holder accommodates any item that can be mounted on a 2.25 mm i.d. SS rod. Shown with TS-1 thermistor.



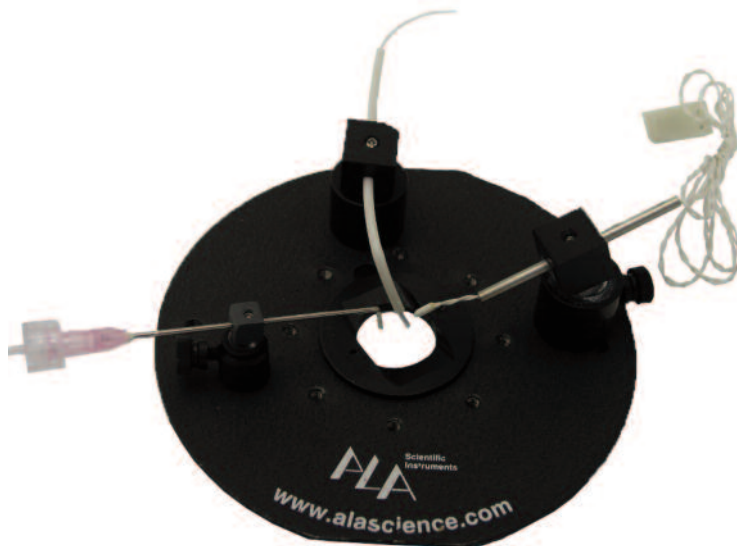
**MMPIOH-S:** Perfusion port holder that uses a stainless steel cannula with luer lock fitting.



**TILTPORT:** Tilt-a-Port™ magnetic perfusion w/ thumbscrew Z adjustable inlet/outlet port with grounding lug.



**LL-SHOLD:** Magnetic holder for **Levelock™** sensor which enables control of fluid level and elimination of turbulence.



**MS-STAGE:** Durable powder-coated steel magnetic mounting plate offers large positioning surface and multiple tapped holes to securely anchor ALA's tool holders or other laboratory-made devices. Central opening fits all ALA MS chambers or any 35 mm culture dish as well as Warner Instruments platforms. Easily mounts on standard upright or inverted microscope stages including the ALA MSP, Gibraltar, and Narishige ITS.



**MSS-EXT:** 65x25mm extension plate for the MS-Stage for holding long tools

**MS-MAGHD:** Magnetic hold down clamps for MS chambers



**UPIOH-S:** Ultra-low (1/4") perfusion port holder with luer lock-fitting steel cannula.



**MPSALT-H:** Agar bridge holder securely positions agar bridge (2.0 mm O.D. glass tubing) to movable chamber containing 8mm Ag/AgCl pellet disk.



**MMPIOH-T:** Low profile perfusion I/O holder w/ teflon cannula includes luer lock fitting.



**MMCLIP:** Low profile alligator clip with swivel and extension arm.

NOTE: All tools above are shown in low-profile, MM, version (1/2" mounting cube). Also available in high-profile, M, version (1" mounting cube). Ex. **MUTOOOL-H** and **MMUTOOOL-H**

# Small Parts and Tools

ALA Scientific supplies a number of useful tools and parts to round out any electrophysiology or imaging setup. We take the hassle out of finding these items and make them easy to get.



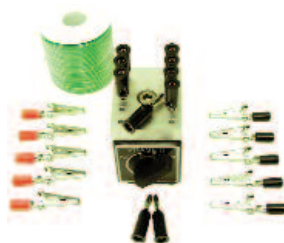
### ALA MS-npiCable

- Integrated cable for npi temperature controllers
- \* Molex power connector
  - \* 2 Male Molex sensor connectors
  - \* Ground connector
  - \* 8 pin DIN connector



### ALA MS-ADJPORT

- Adjust-a-Port™ MS chamber bath fluid height adjustment perfusion port for all MS chambers with the P option. Chamber not included.



### ALA GROUNDKIT:

- Grounding Kit including:
- \* Al plate with 10 holes
  - \* 10 Banana Jacks
  - \* Magnetic Base
  - \* 10 Alligator Clips
  - \* 100' Spool of 18GA Copper Wire



### ALA TOOLSET: 100+ Piece Tool Kit:

- \* Includes SAE and metric wrenches, sockets, screwdrivers, pliers and more.
- \* Tempered carbon steel sockets and wrenches
- \* triple chrome plating
- \* case with handle



### ALA CALIPER:

- Digital caliper
- \* 6"/150mm total travel
  - \* Metric / SAE digital display
  - \* Accurate to 0.001"
  - \* Resolution to 0.0005"
  - \* Fluid-resistant SS frame w/precision ground jaws
  - \* On/off switch w/automatic shut off
  - \* With 2x 1.5V button cell batteries



### ALA FLUKE115:

- Digital Multimeter
- \* Max Voltage AC/DC 600V
  - \* 10A AC/DC Current Measurement



### ALA BAN-CABLE

10 banana test cables



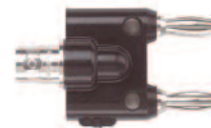
### ALA BNC-ALLIGA

BNC to alligator test cable 2'



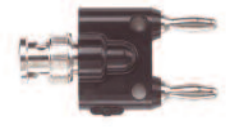
### ALA ALLIG-LEAD

package of 10 alligator cables



### ALA BNCF-BAN

BNC female to double banana adapter



### ALA BNCM-BAN

BNC male to double banana adapter



### ALA BNC-3 or 6

RG174 50 Ohm BNC cable 3' or 6'



### ALA BNC-T

BNC male to female / female T adapter

ALA MS-ADJPORT	Adjust-a-Port for MS-chambers w / P in part number	ALA MS-npiCable	Cable to connect thermistors and heater coil to npi temperature controllers
ALA MPSALT-H	Magnetic base Agar bridge w/Ag/AgCl pellet	ALA BNC-3	BNC to BNC 3' RG174 50 Ohm cable
ALA MS-MAG-HD	Magnetic hold down clamps for MS chambers	ALA BNC-6	BNC to BNC 6' RG174 50 Ohm cable
ALA MS-STAGE	MS chamber microscope stage holder	ALA BNC-T	BNC male to female/female T adapter
ALA MCLIP	Magnetic crocodile clip/swivel	ALA BNC-ALLI	BNC to alligator clip test cable 2'
ALA MMCLIP	MiniMagnetic Crocodile clip/swivel	ALA ALLILEADS	Alligator clip lead set - package of 10 misc colors
ALA MPIOH-T	Magnetic perfusion I/O holder w/Teflon tubing	ALA BANCABLE	Banana to banana test leads - package of 10 misc colors
ALA MMPIOH-T	Mini Magnetic perfusion I/O holder w/ Teflong tubing	ALA BANANAPLUGS	Set of 5 banana plugs
ALA MPIOH-S	Magnetic perfusion I/O holder w/SS cannula and grounding lug	ALA BNCM-BAN	BNC male to double banana plug adapter
ALA MMPIOH-S	Mini Magnetic perfusion I/O holder w/SS cannula	ALA BNCF-BAN	BNC female to double banana plug adapter
ALA MUTOOL-H	Magnetic universal tool holder	ALA GROUNDKIT	Grounding plate w/mag base, 10 inputs, 10 banana plugs, 10 alligator clips, 100' wire spool
ALA MMUTOOL-H	MiniMagnetic universal tool holder	ALA CALIPER	Digital caliper
ALA TILTPORT	Tilt-a-Port magnetic perfusion adjustable I/O port	ALA FLUKE115	Digital Multimeter
ALA LL-SHOLD	Magnetic LevelLock™ optional sensor holder with adjustable control	ALA TOOLSET	100+ Piece Tool Kit Includes SAE and metric wrenches, sockets, screwdrivers, pliers and more
ALA UPIOH-S	Ultra low-profile perfusion I/O holder with SS cannula	ALA MSS-EXT	65x25mm extension plate for the MS-Stage