

# Outfit your entire rig with Siskiyou accessories.

## 3 Axis Shuttle System



Shown in Retracted Position



### Horizontal



### Vertical



### Round

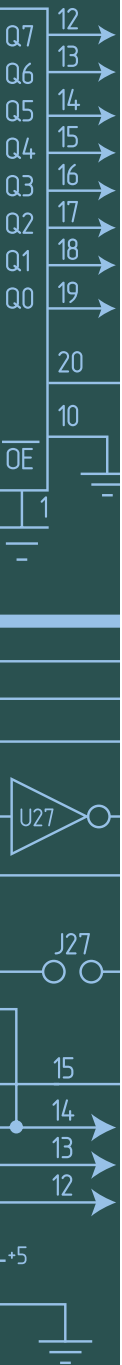


### Chamber Shuttle System: 3 Axis

One inch working travel in XYZ. Choice of 20, 40, 80, and 100 TPI adjustment screws. Magnetic coupling (pat. pend) allows quick withdrawal of perfusion chamber from working area.

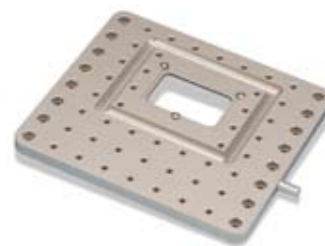
### Perfusion Chambers: Horizontal, Vertical, Round

The PC series perfusion chambers have embedded magnets that are conveniently located to retain perfusion plumbing and ground plugs. They are designed to fit into our 8090c fixed stage platform. A standard 22 mm cover slip is used to create the chamber bottom that is attached with vacuum grease, silicon, or parafilm. There are two plastic retention screws for added security. Both openings accept 13-mm round cover slips for cultured specimens. PC series chambers come in three styles: horizontal, vertical, and round. All models have two small but very powerful magnets located next to the input/output reservoirs and two more located closer to the recording chamber.



### The 8090c Platform

The 8090c perfusion chamber platform is specifically designed with the electrophysiologist in mind. With adequate mounting holes and a drainage trough around the perimeter for solution overflows. The 8090c is ideal for fixed stage electrophysiology setups. The drainage trough is designed to protect your expensive microscope optics by funneling the solution to the outer edge of the platform and down the drainage tube to a safe location. The chamber receiver is located off of center and accepts our PC series perfusion chambers. Clearance holes along the right and left hand edges allow mounting as a stand-alone fixed stage or as the center chamber platform in a bridged platform setup.



### PC-A Chamber Adapter

The PC-A chamber adapter allows the user to mount our PC-V and PC-H chambers into our 8090P platform. Their 10.8-cm diameter is also compatible with Olympus microscope stages and allows 360° rotation of the chamber.



### Amplifier Electrode Holders

The new Stable-tip electrode holders eliminate the final instability in the electrophysiology experimental setup. We've taken a thermally stable base material and coated it with aluminaoxide. This coating has two benefits: first, it is non-conductive so the holder does not act as an electrical antenna; second, it is very resistant to corrosion. Under conditions of a high resistance electrode seal (gigaseal), the ST series electrode holder has a noise level of 0.79–0.80 pA RMS (5kHz filter); polycarbonate measured 0.78–0.79 pA. The base material of the Stable-tip has a thermal expansion coefficient of 23 $\mu\text{m}/\text{m}^\circ\text{C}$  versus 70 $\mu\text{m}/\text{m}^\circ\text{C}$  of a polycarbonate holder. That is an improvement by a factor of three.



### Pipette Puller

Our dual stage EP-450 pipette puller uses several unique methods to make consistent electrodes pull after pull. The theory of operation is based on time management and millivolt control of the element for both first and second pulls. By controlling the time, or at least establishing a time basis, the user can create a pipette shape and length consistently and repeatedly. The EP-450 has been designed to be multi-user friendly. A simple data log book is included to record electrode glass type, electrode glass diameter, first pull time, first pull voltage, second pull time and second pull voltage. Using this information, any user can easily reestablish their settings and recreate a specific electrode shape. The EP-450 has a unique ergonomic design. It is comfortable for the user to operate on a daily basis. It has been constructed for easy access to the loading mechanism, which eliminates operator bending and kneeling. All controls



Q7	12
Q6	13
Q5	14
Q4	15
Q3	16
Q2	17
Q1	18
Q0	19
	20
	10
OE	1
	1

U27

J27

15

14

13

12

+5



are set at a 45° angle for comfortable viewing. A fine pitch 100TPI pipette stop adjustment screw makes it very easy to balance the upper and lower electrodes to ensure symmetric electrode lengths every pull. The filament carriage travels from the first pull location to the second pull location and has a micrometer dial read-out for fine adjustment. The carriage also has a simple heat shield that uses a standard 25mm x 75mm microscope slide to protect the element during the pull process.

### Tissue Slicer

The MX-TS tissue slicer consistently slices sectioned cortical or hippocampal tissue to either a 200-, 300-, or 400- $\mu$ m thickness in a straightforward operation. Thicknesses are selected by simply replacing the lead screw on the frame winder. This style of tissue slicer ensures consecutive slices of the specifically sectioned area. The MX-TS tissue slicer comes complete with an instructional video, frame winder, frame accelerator, 4 frames, 100 clamping wires, 1000 feet of 20- $\mu$ m tungsten wire, and 20 Petri dishes.

### Siskiyou Accessories Ordering Information

Part No.	Product Description	Price
SD-Shuttle	Three axis Chamber Shuttle System	\$ 2,950
SD-PC-H	Horizontal Perfusion Chamber w/4 magnetic clips	\$ 125
SD-PC-V	Vertical Perfusion Chamber w/4 magnetic clips	\$ 125
SD-PC-R	Round Perfusion Chamber w/4 magnetic clips	\$ 125
SD-8090c	Perfusion Chamber Platform, 8.0 x 9.0" w/drain	\$ 275
SD-PC-A	Perfusion chamber adapter, 10.8cm or 11cm diameter	\$ 275
Co-48510-00	Coverslips, borosilicate 22x22mm square #1, ~156 pcs.	\$ 25
SD-ST50-200/HS	Electrode holder fits Axon 200/700 & HS-2A amplifiers	\$ 100
SD-ST50-BNC	Electrode holder fits amplifiers with BNC connectors	\$ 100
SD-ST50-CV	Electrode holder fits Axon CV-4 amplifiers	\$ 100
SD-EP-450	Two-stage automated pipette puller	\$ 4,995
SD-MX-TSslice	Tissue slicer	\$ 3,200
SD-MX-TS-FS	Tissue slicer, extra frames, pkg of 2	\$ 275
SD-MX-TS-CW	Tissue slicer, clamping wires, pkg of 100	\$ 75
SD-MX-TS-TW	Tissue slicer, 20 $\mu$ m tungsten wire, 1000-foot spool	\$ 250

U.S./Canada prices shown. International prices add 20%. Email or visit web store for latest prices.