

# PLATO<sup>®</sup>

Quality Tools for Electronic Assembly and Repair

## Product Catalog & Application Guide



# CUTTERS

## THE ELECTRONIC INDUSTRY'S MOST POPULAR LEAD CUTTERS

**RoHS Compliant**   
"Always was...always will be"

Assemblers love the effortless shearing action, comfort, and safety of Plato shears. Plato shears use the shear cutting method which requires 50% less operator effort and extends cutting life.

Plato shears have a thin profile design for hard-to-reach areas in electronic assembly. Handles are cushioned for day long comfort, and automatically spring back to their original position after each use.

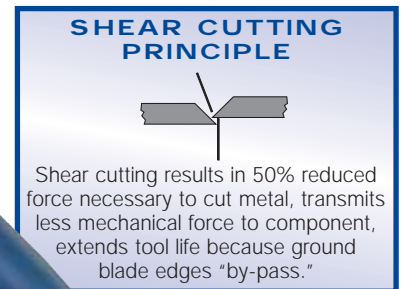


- Ergonomically designed
- Reduce operator fatigue
- Require 50% less operator effort



### 170 PLATOSHEAR GENERAL PURPOSE LEAD CUTTER

Flush cuts component leads as large as 18 AWG copper wire (.040"/1.0mm). Weighs 1.8oz. (51g) and is 5.15" (131mm) long.



### 175 PLATOSHEAR LEAD CUTTER WITH SAFETY GUARD

Platoshear 175 has a permanently attached safety guard that reduces the risk of lead fly-off and prevents eye injury.



### 1755 PLATO BIG SHEAR WIRE/CABLE CUTTER

Cuts round and flat cable, co-ax, nickel, Kovar, and other wire with a clean shearing cut that reduces cable cut-end distortion. Lightweight design, only 2.5 ounces (71g), significantly reduces operator fatigue.





## 170 LX — ADVANCED DESIGN FOR DAY LONG COMFORT



### Features:

- Comfortable, Ergonomic design
- ESD safe to protect sensitive components
- Responsive spring-back action for quick, comfortable cutting of multiple leads
- Thin profile design to reach tight areas in electronics assembly
- Available with a permanently attached safety guard to reduce the risk of lead fly-off



### 170LX • 175LX

#### LEAD CUTTER

#### ERGONOMIC, ESD SAFE LEAD CUTTER

The 170LX and the 175LX are a remarkable advancement in cutter design. Carefully crafted precision cutting blades combine seamlessly with curved, palm shaped, handles to deliver effortless lead cutting and user comfort.

- 170LX Ergonomic, ESD safe lead cutter
- 175LX Includes safety guard



Shearing action of blades produces a clean precise cut with less effort.



The 170LX is ESD safe to protect components from static discharge.



Comfortable grip reduces operator fatigue and increases productivity.

### 170SD • 175SD

#### PLATOSHEAR

#### STATIC DISSIPATIVE LEAD CUTTER



170SD and 175SD have permanently static dissipative plastic grips which meet DODSTD-1686 and MIL-B-81705, Type 2. Otherwise, they are identical to Platoshears 170 and 175.

- 170SD ESD safe general purpose lead cutter
- 175SD ESD safe lead cutter with safety guard



# SOLDER POTS

## SOLDER POTS FOR LEAD-FREE SOLDERING

Plato® solder pots are ideal for tinning lead wires, pre-tinning small electrical parts, or dip soldering small assemblies and circuit devices.

### Porcelain Coated Crucibles

Plato's porcelain coated crucible is easy to clean and offers a long service life. Solder will not adhere to the porcelainized surface, allowing for easy maintenance. The coating also resists the corrosion common with activated fluxes and high tin content solders. All Plato solder pots can be ordered with a porcelain coated crucible by adding a P to the end of the part number.



"Solder beads off the porcelain coating like water on a freshly waxed car"

RoHS Process Compliant



## General Purpose Solder Pots

Plato General Purpose Solder Pots control temperature  $\pm 11^\circ\text{F}$  ( $\pm 6^\circ\text{C}$ ) through the use of a thermal timer switch with automatic correction for voltage fluctuations.

- Safety heat shield.
- Removable dross tray for easy cleaning.
- Three-wire, grounded UL listed cord.
- 2.5" (64mm) diameter by 1.5" (38mm) deep crucible.
- Adjustable leveling feet.
- All metal construction for ESD protection.



## Precision Solder Pots

Plato's Precision Solder Pots exceed the requirements of military specifications ANSI (J-STD-001B). The pots control temperatures to  $\pm 5^\circ\text{F}$  ( $\pm 2.75^\circ\text{C}$ ) of a preselected setting from ambient to 925°F (496°C) and have an LCD temperature display.

### SP-500TP AND SP-150TP

#### Additional Features:

- LCD that displays preset temperature and operating temperature.
- Temperature preset to select the desired temperature.
- Limits transient voltage spiking to 2mV peak-to-peak or less for voltage sensitive components.
- Internal circuitry to compensate for incoming power fluctuations, power line circuit breaker.
- Output jack for external temperature recorder or data logger.

### SP-600TP AND SP-750TP

#### Additional Features:

- Large capacity crucible, 4" (102mm) by 6" (152mm) by 4" (102mm) deep.
- Safety warm-up crucible cover.



## SOLDER POTS

Key: ● = Best ○ = Acceptable ○ = Not applicable / Not recommended

120 VAC Product	240 VAC Product	Lead-Free Solders	Temperature Readout	Precision Temp. Control	Crucible Dimension	Solder Capacity	Temperature Range	Wattage	Highlights
SP-101	SP-201	○	○	○	2.5" dia.	2 lbs.	500° - 975°F	350	General Purpose
SP-101P	SP-201P	●	○	●	2.5" dia.	2 lbs.	500° - 975°F	350	Gen. purpose w/protective porcelain crucible
SO-301	SP-401	○	○	○	2.5" dia.	2 lbs.	500° - 1100°F	500	High powered general purpose
SP-301P	SP-401P	●	○	○	2.5" dia.	2 lbs.	500° - 1100°F	500	High powered w/protective porcelain crucible
SP-500T	SP-150T	○	●	●	2.5" dia.	2 lbs.	ambient to 925°F	350	Precision temperature control
SP-500TP	SP-150TP	●	●	●	2.5" dia.	2 lbs.	ambient to 925°F	350	Precision w/protective porcelain crucible
SP-600T	SP-750T	○	●	●	4"x 6"x 4"	32 lbs.	ambient to 750°F	100	Precision, large solder bath

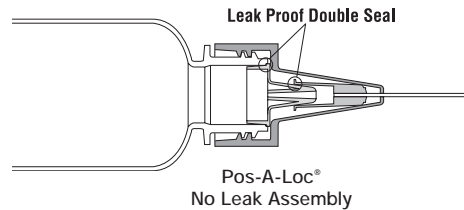
All 240 VAC pots are approved.

## FLUX AND LIQUID DISPENSERS

Plato® flux and liquid dispensers come in several shapes and sizes to work in a wide variety of soldering applications. Needle bottles are ideal for precisely controlled flux applications. Brush bottles are a great way to aggressively but safely clean flux residues and other contaminants from PCB's.

### Needle Flux Dispensers

- Dispense precise amounts of liquid without dripping, spilling, or waste
- Unique, no leak design!
- Meets ANSI (J-STD-001B)



Product	Capillary ID	Recommended Flux Type	Capacity
<b>FD-21</b>	.010" (.25mm)	No-Clean and Water Soluble	2 oz.
<b>FD-2</b>	.020" (.50mm)	Rosin	2 oz.
 <b>SF-01</b>	.010" (.25mm)	No-Clean and Water Soluble	2 oz.
 <b>SF-02</b>	.020" (.50mm)	Rosin	2 oz.

Replacement needles available: FDN-010 for .010" (.25 mm); FDN-020 for .020" (.50mm)



### Water and Liquid Dispensing Bottles

**BC-250** – Polyethylene bottle, screw cap, and dispensing tube with 8 oz. (237ml) capacity. Inexpensive way to wet sponges and dispense liquids at the work bench without waste.

**SF-250** – 8 oz. bottle encased in permanently static dissipative plastic that provides electrostatic discharge protection to meet DOD-STD-1686 and MIL-B-81705, Type 2.



Plato's static dissipative bottles are surrounded by permanently static dissipative sleeves that stay out of contact with flux and other liquids. This prevents conductive "hot spots" on the surface of the bottle.

- Protects voltage sensitive devices from static discharge
- Meets ANSI (J-STD-001B)
- Meets the requirements of DOD-STD-1686 for containers
- Physical characteristics comply with MIL-B-81705, Type 2

### Brush Scrub Bottles

- Inexpensive and safe method to spot clean PCB assemblies
- Compatible with IPA, Hexane, and Acetone

**SB-2N** – 2 oz. bottle with nylon bristles that have medium stiffness for general flux removal.

**SF-B2HS** – 2 oz. bottle with natural horse hair that has soft to medium stiffness. Durable and works well for flux removal and general cleaning. Combination of static dissipative jacket and natural material meets ANSI (J-STD-001B).

**SF-B2HH** – 2 oz. bottle with natural hog bristles that are medium to stiff and works well for removing difficult, sticky, crusty, or viscous materials. Combination of static dissipative jacket and natural material meets ANSI (J-STD-001B).

