



PRODUCTION EQUIPMENT & SUPPLIES

## **RPS PRELUDE (202) SOLDERABILITY TEST EQUIPMENT**



The Prelude is a proven industry platform that enables the Dip & Look Solderability Test in accordance with the Mil-STD-202, Method 208. The system features a 15 lb-capacity solder pot, a flux station and X and Z axis control.

Designed for lab environments, the table-top system provides high precision PLC motion control, advanced touch screen programming, and PID temperature management for complete process control of the component dip process.

The Prelude can be configured with a 2nd solder station to enable lead and lead-free testing— all from a single Prelude 202 System. All solder pots are lead-free ready and come with a lifetime warranty.

To certify components for storage beyond 12 months, an RPS Cadence Steam Ager can be used to artificially age the components prior to the solderability dip test.

All RPS Systems are made in the USA and feature a full one year warranty and lifetime solder pot warranty.

### **Advantages**

RPS offers the Presto and Anthem Lead Tinning Systems “off-the-shelf” as standard offerings, designed for low and mid-volume lead tinning processing. The Odyssey is a “Made to Order” system for the less common high volume operations. Each system will be built to a customer’s precise specification and performance requirements.

[www.epakelectronics.com](http://www.epakelectronics.com)

### Benefits

- Easy Set-up & Immediate Results
- Precise Process Control & Repeatability
- Superior Results vs Hand Dipping
- Space-Saving Footprint
- 2nd Solder Pot for New Alloys
- No Programming Knowledge Required

### Features

- Meets Mil-STD-202, Method 208
- PID Temperature Controls
- Dual Alloy Processing Ready
- Automatic Dross Wiper
- High Precision |  $\pm .001''$
- Easy Touch Screen Programming

### Warranty

- One (1) Year System Warranty
- Lead & Lead-Free Ready
- Lifetime Solder Pot Warranty

### Prelude System Options

**2<sup>nd</sup> Active Solder Station**

**Additional Solder Pot**

**Chart | Data Recorder**

**Standard Tooling**

**Starter Tool Kit**

**Custom Tooling**

### Control

A PLC & screw drive system manage the robotics. Touch screen controller is used to write, call and edit programs. Up to 30-40 average length programs can be stored in memory. The controller features end-user friendly programming, editing and manual jog capabilities.

### Operation

**Configuration** 1<sup>st</sup> Solder Station

Flux Station

2<sup>nd</sup> Solder Station (*Option*)

**Operation** PLC HMI Touch Screen

**Accuracy Z-Axis**  $\pm .001''$  | 0.025mm

**Accuracy X-Axis**  $\pm .001''$  | 0.025mm

**Programmability** 30 - 40 program capacity (*complexity dependent*)

**Immersion Depth** Programmable in .001'' steps

**Speed In | Out** Meets Compliance Standard at 1'' per second

**Immersion Time** Programmable in milliseconds

**Component Handling** Standard & Custom Component Tool Holders

## Solder Management

<b>Temp Control</b>	PID proportioning (0-325°C) ± 2°C
<b>Solder Pot</b>	Electro Polished Stainless Steel
<b>Process Range</b>	4 x 6 x 2.5" (W x L x D) 100 x 150 x 64 mm
<b>Capacity</b>	15 lbs   6.8 kgs
<b>Lead Free Ready</b>	Yes
<b>Static Flow</b>	Standard
<b>Dross Wiper</b>	Standard

## Flux

<b>Static Vessel</b>	Manual Cascade Overflow Method
<b>Dimensions</b>	3.5 x 3.5 x 1" (W x L x D) 88 x 88 x 25 mm

## Standards Compliance

ANSI-J-STD-002  
JEDEC JESD22-B102D  
ANSI-J-STD-003  
MIL-STD-202 Method 208  
MIL-STD-883

## Physical

<b>Electrical</b>	110vac   1Ø   50-60hz   20amp
<b>Certification</b>	UL and CE Labeled
<b>Dimensions (WxLxH)</b>	36 x 21 x 16"   900 x 550 x 400 mm
<b>Weight</b>	150 lbs   68 kg
<b>Air</b>	80 PSI   Activates Dross Wiper