



**RPS**  
BE SELECTIVE™



# FRX10

## Selective Soldering System

Introduced in Summer 2014 as an addition to the budget-friendly RPS FRX Economy Line, the FRX10 is an excellent choice for high mix selective soldering production, designed specifically for prototyping and low volume production needs. The machine has a standard process range of 10x10" (254 x 254 mm), and performs precise drag and dip soldering using the RPS Gaussian Miniwave™ and RPS's proprietary DirectHeat™ nitrogen inertion system. The FRX10 is fully equipped with a batch load configuration, spray flux, and can be configured for lead or lead-free processing.

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### Operation

X/Y/Z Control Stepper Motors  
 Interpolated Motion Simultaneous  
 Max Process Range 10 x 10" | 254 x 254 mm  
 Computer & Monitor Windows 7 PC | Offline RPS CamConductor™ Programming

### Solder Process Control

Load Method Manual | Universal PCB Holder  
 Approach 360° | Unlimited Access to All Solder Points  
 Nozzle Material Wetted Chromium Alloy  
 Nozzle Sizes (ID) 1.5, 2, 2.5, 3, 4, 5, 8, 10, 20 mm & Custom  
 Keep Away 1.5 mm Standard  
 Max Wave Height 6mm Standing Wave Height  
 Component Max Height 3" | Top & Bottom of PCB

### Flux Process Control

Spray Fluxer 6 - 20 mm | No Limitation  
 Drop Jet Fluxer 0.5 - 2 mm | 14% Solids Max  
 Dual Fluxers / Chemistry\* Not Available  
 Flux Capacity 1 Liter Pressurized (per tank)

### Solder Pot Management

Solder Pot Capacity 30 lbs | 16 kgs  
 Temp Control PID proportioning (0-400°C) ± 2°C  
 Heat Time 75 Minutes  
 Dross Production 1.5 Ounces per 8 Hours  
 Maintenance Cycle 80 Hour Pump Clean | 30 Minutes

### Nitrogen Management

N2 Inertion RPS DirectHeat™  
 N2 Temp Control 0-400 °C Closed Loop Set Point  
 Consumption 40 CFH  
 Required Purity <20 PPM O2H

