TM SOLDERING SOLUTIONS



Introducing the **PHOENIX** Selective Soldering Machine designed to elevate your manufacturing processes. Engineered with precision and efficiency in mind, the **PHOENIX** offers unparalleled accuracy in applying solder to specific components on PCB's, significantly reducing the risk of defects and improving overall quality. The **PHOENIX** is equipped with the new **EmberX** software controls, enabling seamless integration into existing production lines and offering user-friendly interface for effortless operation. With its superior performance and reliability, the **PHOENIX** is designed to ensure your products meet the highest standards of excellence.

Standard Features:

- Windows[™] 11 operating system with the EmberX Software
- ♦ Dual Monitors For simultaneous video feed
- Fiducial recognition for automatic position and rotation correction
- HD1080p Cameras for high resolution process viewing and PCB programming
- ♦ Offline Programming
- ♦ Automated wave height check/adjust
- ♦ Atomizing flux applicator
- Lead alloy solder pot and pump assembly (lead free available)
- Automated solder level verification
- ♦ Warranty one year covering the entire machine



Phone: 509-638-1118 Email: Sales@tmssolutions.us www.tmsolderingsolutions.com



Model PHOENIX

Manual Load Selective Soldering Machine 24" x 20"

(600mm x 500mm)

The **PHOENIX** performs the soldering process by holding the PCB stationary while a high-precision XYZ axis mechanism executes the flux and soldering procedures with flawless accuracy. This fully automated selective soldering machine features the mini-solder wave technology, delivering exceptional performance and consistency

The **PHOENIX** excels at fluxing and soldering through-hole components on SMT boards, even in close proximity to adjacent components. This innovative machine eliminates the limitations and high labor costs associated with operator-dependent soldering, thanks to its flexible, fully automated flux application and molten solder delivery system.

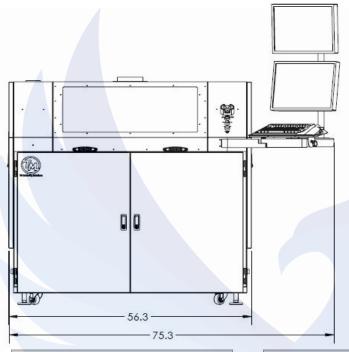
The *PHOENIX* seamlessly combines high throughput with precise process controls, ensuring top-tier performance. Its programmable features allow for meticulous setting of all process parameters, including travel distances and speeds, solder temperature, wave height, pre-heat dwells, and immersion depths. Once configured, the system guarantees consistent, repeatable results with pinpoint accuracy.

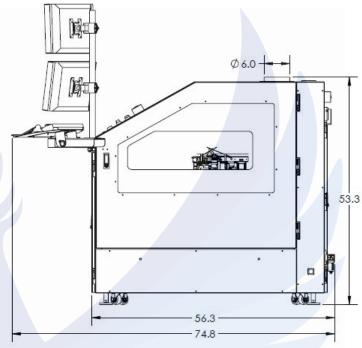
Available Options:

- ◆ Top Side IR Preheat
- ♦ Precision Micro Drop Fluxer
- ♦ Lead Free Alloy Pot & Pump
- ♦ Dual Nozzle Pot & Pump (Lead & Lead Free)
- ♦ 3" Wave Pump for Lead and Lead-Free Applications
- Custom Fixtures and Nozzles
- ♦ Automated Solder Level Fill



Made in America





Dimension: Length: 56.3" 1430mm Depth: 56.3" 1430mm Height: 53.4" 1356mm Weight: 1200 Lbs.

Solder Pot:	
Solder Pot Material:	316 SST
Solder Pot Material:	Optional Titanium for LF
Solder Nozzle:	Conical Single Point
Solder Nozzle Dia.	Range 3mm-25mm
Solder Volume:	27 Lbs. Lead 24 Lbs. LF
Solder Temperature:	Max 350°C
Heating Time:	Approx 75 Min.

Fluxer:	
Spray Fluxer:	XYZ controllable
Spray Width:	7-25mm
Drop Jet Fluxer:	Optional
Flux reservoir:	500 ml (16 oz)

Preheat Module: Optional	
Heaters:	Top Side IR
Temperature Range:	0-120°C
Board Coverage:	24" x 20"

Nitrogen:	
Supply:	Local Supplier
Purity:	.9995
Consumption:	30 SCFH
Min/Max:	40 Min 90 Max

Batch Rail:	
Edge Clearance:	3mm
Min Opening:	2"
Max Opening:	20"
Max Pallet/PCB boa	ard: 12 Lbs
Board Clearance:	3" below/4" above

Air:		
Compressed Air:	Customer Supplied	
Min/Max Pressure:	70 Min 120 Max	
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Exhaust:	
Exhaust Flange:	1 ea. at 6" Dia.
Exhaust Draw:	Customer supplied
Min Draw Required:	150 m ³ /h (90 SCFM)

Control:	
Computer:	64 Bit
Microsoft™ OS:	Windows 11 Pro
Password Controlled	Optional
Dual 22" Monitors:	UHD 2K
Online Teach Camera:	1080P HD
Daily Solder Scheduler:	Included

Electrical:	
Power:	208-240V 3 wire
Frequency:	50/60 Hz
Breaker:	50 AMP



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