

# Selective Soldering Machine

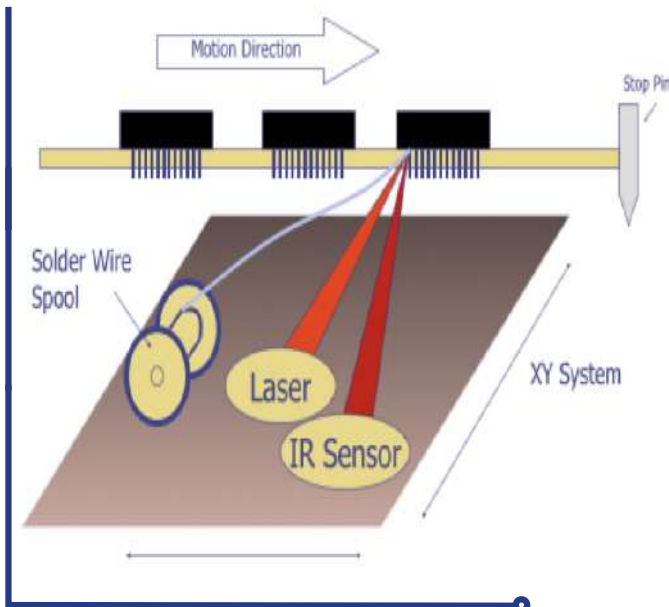
## In-Line Selective Soldering System

The model **GTSS-Selectiva** enables soldering from the bottom of the board, which eliminates the need to flip the board prior to the soldering process, allowing the user to truly incorporate the machine in the SMT line.

Utilizes a power controlled diode laser with closed loop temperature and solder volume control for the soldering of Through Hole (TH) components. It uses a vision system for auto alignment, using fiducials for alignment, and CAD data for locating the leads.



## FEATURES



In-Line or Stand Alone operation

Quick change over between Tin lead and lead free solder wire



High Power diode laser for reduced soldering time



Average soldering time 2-3 sec per joint



Pre-heaters for high thermal mass boards

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# Selective Soldering Machine

## In-Line Selective Soldering System

### SPECIFICATIONS

Model	GTSS-Selectiva
Dimensions (W*D*H) mm	1,000*1,200*1,350
Weight (kg)	600 Kg
Power Supply	230 VAC, 50/60 Hz, 24 Amp (Single Phase) 110 VAC, 50/60 Hz, 24 Amp (Double Phase)
Pneumatics	80 PSL, 2 CFM (Clean, Dry Filtered Air)
Wire Feeder	DC Motor with End of Wire Detector
Operation Modes	Manual or Standard CAD Files
Input Data	Standard CAD Files Combined CAD and BOM Converted P&P Machine File
Standards	Components Library Size (>300 TH Packages)
Cameras	SMEMA y CE
FOV	RS-170 640*480 Pixels
Depth of Field	15*12 mm (0.6"*0.5")
Illumination System	3 mm (0.12")
Max Board Dimensions	LED Illumination Ring
Min Board Dimensions	390*380 mm (15.4"*14.9")
Max Board Thickness	40*28 mm (1.6"*1.1")
Min Board Thickness	3.6 mm (0.14")
Edge Clearance	1.0 mm (0.04")
Top Side Clearance	4 mm (0.16")
Bottom Side Clearance	50 mm (2")
X-Y Mechanism	23 mm (0.9") [33 mm - Optional]
Motion Accuracy (3σ)	XY Servo Motors with Anti Backlash Lead Screws
Motion Repeatability (3σ)	50 mil (2 mil)
Max Speed	20 mil (0.8 mil)
Max Acceleration	200 mm/sec (7.9"/sec)
Fiducial Finding Repeatability	3000 mm/sec
Laser Type	10 μ (0.4 mil)
Cooling System	CW (Continuous Wave) 980 nm, 75 W Max Power Diode Laser / Fiber Coupled
Laser Endurance	Thermo-Electric Cooling System
Laser Driver	10,000 Hours (min)
Spot Size	Current Source-Up to 100 A at 7.5 Volt
IR Sensor	2.5 mm (0.1")
Optics	Resistive Type Magnification of 1:6

### TYPICAL APPLICATIONS


- Soldering of:
  - Connectors and Sockets
  - Through Hole (TH) RF Shields
  - Odd Shape Components
  - Automotive Parts (e.g. Solenoids, Relays, etc.)
  - Jumpers, etc.
- Low cost substitute of selective wave soldering


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