

AUTOMATIC ELEMENT SOLDERING MACHINE



Features

- ❑ Automatic soldering of wires on both sides of zinc sprayed capacitor elements.
- ❑ Pneumatic rotary actuator pick place unit to pick & place the components from conveyor to the elements clamping jigs from dia 20mm to 65mm.
- ❑ Fast loading of the elements to the jigs through hopper & motorized conveyor.
- ❑ Cam Type indexing unit of 4 Station for concurrent operations ensuring high productivity.
- ❑ Soldering at two stations with two wire cutting & stripping equipments.
- ❑ Automatic processed Wire (Stripped & Cut) feeding arrangement.
- ❑ Automatic Lead feeding to the pneumatically operated soldering gun tip.
- ❑ Precise soldering of wire to the element with no damage to the core.
- ❑ PLC (Programmable Logic Controller) controlled operations.
- ❑ Precision Soldering equipment for better quality control.
- ❑ Automatic ejection of element onto the collection bin.

Technical Specification

Capacitor		Diameter - Ø20mm - Ø65mm max Length - Min. 30mm - 100mm max.	
Core		5mm Hex	
Wire Length		Min. 100mm - 320mm max.	
Cross Sectional Area of Wire		0.5 - 2.5sqmm.	
Station 1	Automatic Element Loading / Unloading	Station 3	Rotation of element
Station 2	One side soldering	Station 4	Otherside soldering
Element clamping/Unclamping		Mechanical Jaws actuated by pneumatic cylinder	
Cycle time		4 - 6 sec.	
CONTROLLER		Delta make PLC based control system with user friendly color touch panel Interface to store up to 100 programs	

Solder Wire

Wire Size	1 - 2 mm
Solder Wire	Flux cored / UFC40:60.
Solder Bobbin Dimension	ID -16 to 25mm, OD- up to 120mm & width-100mm.
Wire Feed Mechanism	Pneumatically operated rotate & move
Solder Station Data	200watts with temperature controller Max temp - 350° C.

General Specification

Floor space : 2730mm x 1830mm x 1850 mm (L x W x H)
 Machine weight : 800 Kgs (Approx.).
 Power supply : 230V AC, 50Hz, single phase, 2 KW (Nominal).
 Air supply/Consumption : Pressure - 6 Bar, Consumption - 8cfm.
 Working Room Conditions : Must be dust free.

Note: Proper earthing & stabilized voltage is mandatory for operating the machine
 Moisture free air supply for trouble free operation.

