

# Automatic capacitor Element Soldering Machine

Model - ASM5030



Front View



Isometric View

This machine is used for soldering multi stranded wires to capacitor elements. In this machine wires can be cut from 40mm up to 300mm in length and it de sleeves in the soldering side. Free end of the wire can be stripped, either jacket type or full length de sleeve. In this machine, elements from hopper bowl will be picked from the robot and carried to the place where soldering takes place.

Wire of the program length will be fed from wire pick up robot on to surface and fed to the wire holding jaws at the soldering place. Solder gun comes down on to the surface of the element, simultaneously solder wire also fed to the tips of solder gun. Here programmed length of solder wire will be fed with help of stepper motor. Importance of the stepper motor in this position is to feed consistent and programmed length of solder wire. Element will be reversed after this process. After reverse wire feeding and soldering will be repeated. Finally element will be ejected at the same place and cycle will be repeated if auto mode is on.

## Technical Specification:

Capacitor Element Dimentions	Single
Minimum element diameter in mm	16
Maximum element diameter in mm	30
Minimum element length in mm	30
Maximum element length in mm	50
Minimum wire length in mm	60
Maximum wire length in mm	350
Minimum wire gauge	14/0.15
Maximum wire gauge	30/0.2

### Solder wire

Wire gauge	: 18
Solder wire	: flux cored / UFC40:60 OR UFC50:50
Solder bobbin dimension	: ID-16to25mm,OD-up to120 mm & width 100 mm
Wire feed Mechanism	: Stepper motor& drive with geared Roller feeding
Solder station Data	: 200watts with temperature controller Max temp-350° C

### General data

Power supply	: 1Φ, 230 ± 5V, 50 Hz 2.5KVA
Regulated Power Recommended	: 1Φ, 230 ± 5V, 50 Hz 4KVA

**Note: -Constant Voltage transformer is recommended for regulated power supply**

Compressed Air consumption	: 6 bars, 10cfm.
Compressed Air supply required	: 7 bars, 15cfm.

**Note: - filtered and dry air is recommended to enhance pneumatics life.**

Net weight	: 500 Kg approx
Dimensions	: width- 2000mm, Height- 1650mm,Depth-1250mm,
Working space required	: 6ft width, 8ft length, and 10ft ht
Working room conditions	: Must be dust free.
Temp	: 22 to 24C
Relative Humidity	: 50% to 55%

### Machine features: -

Operator controls	: Touch screen monitor & Push buttons for frequent operation
Auto Element feeding	: Pneumatic & Motorized feeding with low noise
Logic Controls	: DELTA Make

### Production: -

Approximate quantity	: 500-700 pieces/hr
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