

# SPOT WELDING MACHINE MANUAL



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# SPOT WELDING

## OPERATING MANUAL

# **OPERATING & MAINTENANCE**

## **INSTRUCTIONS**

### **INSTALLATION:- PRECAUTIONS AND CHECKS**

**CAUTION:-**During all installation and connection operations, the machine must be absolutely isolated from the power supply line.

#### **CAUTION:**

Installation must be made by qualified personnel in compliance with the applicable regulations and in accordance with the instructions of the manufacturer.

#### **CAUTION:**

Before connecting the machine to the mains supply, make sure that the data on the nameplate of the spot welder correspond to the voltage and frequency of the mains supply available on site.

Electrical safety of the spot welder is obtained only when connected to an efficient grounding system made in compliance with the applicable Regulations.

Have qualified personnel check the system for functional efficiency.

The Manufacturer cannot be held liable for possible damage caused by absence or inefficiency of the grounding system.

Check that the installed power on the electric supply meter as well as the cables of the electrical plant are adequate for the rated power of the spot welder.

#### **CAUTION:**

In case the user makes modifications, alterations or changes of the spot welder or integrates it in a plant, any liability of the Manufacturer decays and the user is obliged to remove the CE label. The non-observance of the above instructions will render the safety system provided by the Manufacturer ineffective, causing serious risks of personal injuries and material damage.

## **FEATURES:-**

**TRANSFORMER:** Low leakage (high linkage) design, proper cooling and insulation including winding impregnation to enhance reliability and service life.

**CURRENT CONTROL:** Current setting from min. to max. can be done by 6 position off load tap switch.

**TIME CONTROL:** (With Timer) Solid state electronic timer to control weld time from 5 to 50 cycles and 1 to 10 seconds to achieve accurate and repeatable spots.

**WELD PRESSURE:** Adjustable max. pressure levels are derived from a heavy-duty compression spring mounted on a pressure rod with calibrated nut. here a special arrangement in the machine minimize operator fatigue and ensure simple setting.

**COOLING:** Electrodes, holders and arms are provided with water cooling arrangement with hose connections. (Water supply to be arranged by the user.)

**ELECTRODES:** One pair of morse tapper 2 straight electrodes made from hardened copper-alloy is supplied with the equipment. other type or spare electrodes can be supplied on specific orders.