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Product Name :

Spot welding Machines

Product Code :

SLE/MCE/13



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Description :

Spot welding Machines (Product Code: SLE/MCE/13) are 63 kVA AC electric resistancewelders used to join overlapping sheet-metal parts by spot and projection welding in fabricationshops, sheet-metal workshops and engineering training institutes. Fabricators and instructorsselect them for an asymmetrical body, an upper electrode worked by foot lever or air cylinder, andtap-type current control from 50% to 100% in 8 steps. They are supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Machine type	AC electric resistance spot / projection welder with asymmetrical body design
Rating	63 kVA
Upper electrode actuation	Foot lever (manual system) or air cylinder (air system)
Electrode force	Easily calculated in both systems; air system has a gauge,manual system has a calibrated spring
Current control	Tap method, 8 tap adjustments on the primary of the main transformer; 50% to 100% in 8 steps
Air accessories (air system)	Filter, lubricator, regulator, gauge, solenoid valve and speed valve incorporated
Cooling	Electrodes, electrode holders, arms and transformer water cooled through one single water-cooling circuit
Materials listed	Iron, copper, aluminium, stainless steel and other materials
Product code	SLE/MCE/13
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Spot Welding Machine Used For?

Resistance spot welding clamps two or more overlapping sheets between copper-alloy electrodes and passes a high current through them. The heat generated at the contact point melts a small nugget that fuses the sheets without filler wire or gas. It is the standard way to assemble panels, enclosures, brackets, cabinets and wire products, and projection welding extends the same idea to parts with raised projections.

In a training workshop the machine shows clearly how current, electrode force and time together decide weld quality. The 8 current steps let students compare nugget size on the same sheet, and the calibrated spring or pressure gauge makes electrode force a known value rather than a guess. Keep cooling water flowing whenever the machine is in use and dress the electrode tips regularly for consistent welds.

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