Are all three phases of the energy storage spot welding machine live wires

What are the three stages of a spot-welding process?

The spot-welding process can be divided into three stages: setting the workpiece,current introduction,and solidification. #1. The setting of the workpieces. The first stage involves setting workpieces into the welding machine in the overlapping position. Workpieces can be of the same or different material types.

How does spot welding work?

Spot welding involves three stages; the first of which involves the electrodes being brought to the surface of the metal and applying a slight amount of pressure. The current from the electrodes is then applied briefly after which the current is removed but the electrodes remain in place for the material to cool.

What is a spot weld?

Typically the sheets are in the 0.5 to 3 mm (0.020 to 0.118 in) thickness range. Forcing a large current through the spot will melt the metal and form the weld. The attractive feature of spot welding is that a large amount of energy can be delivered to the spot in a very short time (approximately 10-100 milliseconds).

How to gather information about spot welding?

In information gathering all related information about spot welding, and material used was collected to provide futher understanding. All the related information is obtain from the internet, journal, library and the other resources. It is important o nderstand the theory and previous step.

How to spot weld a sheet?

Select the thickness of the sheet to be spot welded using the key (2-FIG. 2) on the spot welding machine control panel. Select the type of spot welding (conXnuous or pulsed) using the key (3-FIG. 2). When necessary it is possible to correct the default spot welding Xme upwards or downwards using key (1- FIG. 2).

What are the limitations of spot welding?

The limitations of Spot Welding process are: Alignment of the workpiece is critical. Spot welding deforms parts of the base metals. Welding thick sheets of metal is impossible. Joints created might not be as strong as with some other welding methods as it only creates localised joints. Inadequate squeeze pressure will result in a low-quality weld.

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