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The use of high-voltage capacitor welding with an induction-dynamic drive allows minimizing the processes of nucleation of intermetallic phases due to the use of super-hard ...

Capacitor energy storage spot welding, often referred to as capacitor discharge welding (CDW), relies on the energy stored in capacitors to create high-intensity electrical discharges for welding.

Consequently, this paper presents the research carried out regarding the capacitor energy storage welding technique of Ni₆₃Cr₁₂Fe₄Si₈B₁₃ amorphous ribbons. The structural analysis ...

As one of the typical applications of spot welding technology for capacitor energy storage, stud welding demonstrates its unique welding advantages. During this welding process, energy is temporarily stored in the capacitor. At the moment of welding, the capacitor rapidly discharges, releasing the stored energy and completing the welding step.

1. Energy Storage Capacity (ESR): The ESR is a pivotal factor in capacitor energy storage spot welding. It determines the amount of energy the capacitor can store and subsequently release during the welding process. The higher the ESR, the more energy is available for a stronger, more consistent weld. 2.

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Research on welding with stored energy in the capacitor of the amorphous alloys in ribbon form Burc? Mircea Codrean Cosmin

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Capacitor energy storage spot welders must ensure electrode alignment, as electrode misalignment negatively affects the welding process and quality. Axial or angular misalignment can lead to irregularly shaped welds and smaller weld sizes due to asymmetric pressure and current distribution.

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