

Self-made energy storage spot welding machine control system

What is welding spot analytics?

At its core, Weld Spot Analytics software provides easy access to all welding controllers on the shop floor. No more wasting time sifting through complicated interfaces, all the most useful information can be reached with just a couple of clicks away.

How personalized & smart welding technology can help in Industry 4.0?

Personalized/smart welding products and services based on platform technologies including CPS, IoT, and cloud manufacturing can help realize green, efficient, and humanized IWS in the context of Industry 4.0. Welding-based additive manufacturing technology will make it possible shorten production cycles and reduce manufacturing costs. 8.2.

What is resistance spot welding?

It is widely used in automobile, aerospace and other fields. The quality of solder joints will directly determine the safety and stability of the equipment or system. However, resistance spot welding still has problems such as high cost of purchasing equipment, poor versatility, and low detection accuracy.

How do I operate the welding controller and process module?

You can operate both the welding controller and the process module on a standardized BOS 6000 user interface. The BOS 6000 also provides connectivity to higher-level data processing systems. With the web-based manual operator panel IndraControl VCH 05 many controls can be used arbitrarily mobile.

How can machine intelligence be used in welding?

Welding is a complex, non-linear process involving a large number of parameters. It is difficult to use direct mathematical formulas to map its inputs and outputs before welding. Machine intelligence, especially optimization algorithms, can be applied to design welds and their process parameters based on quality goals and other factors.

How does a human welder work?

A human welder holds a virtual torch whose operation is similar to a real torch through which he can observe and control the welding operation. The actual weld is performed by a welding robot equipped with sensors that measure the weld pool surface.

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