

What is stud welding?

Stud welding is a general term for joining a metal stud or similar part to a workpiece.¹ Welding can be done by a number of welding processes including arc, resistance, friction, and percussion. The arc stud welding process (SW), including capacitor discharge methods, will be covered in this document.

What power sources are used in arc stud welding?

One type uses dc power sources similar to those used for shielded metal arc welding. The other type uses a capacitor storage bank to supply the arc power. The arc stud welding processes using these power sources are commonly known as arc stud welding and capacitor discharge stud welding respectively.

What is arc stud welding?

1.1 Arc Stud Welding. The arc stud welding process involves the same basic principles as any other arc welding process. Application of the process consists of two steps: Welding heat is developed with an arc between the stud and the plate (work). The two pieces are brought into intimate contact when the proper temperature is reached.

How do stud welding guns work?

Stud welding guns are used to hold the studs and move them in proper sequence during welding. There are two basic power supplies used to create the arc for welding studs. One type uses dc power sources similar to those used for shielded metal arc welding. The other type uses a capacitor storage bank to supply the arc power.

Can you use a weld gun on a stud?

The weld gun is for welding studs only. Do not use the weld gun as a multipurpose tool (i.e., Hammer--banging studs to test welds or break ferrules, Scraper--removing rust, scale or weld splatter, etc.) When troubleshooting the CD 700, the following precautions must be observed. Controller power must be TURNED OFF!

How long does it take to weld a stud?

The time required to complete a weld varies with the cross-sectional area of the stud. For example, weld time typically would be about 0.13 seconds for a 10 gage (0.134 in. [2.6 mm]) stud, and 0.92 seconds for a 7/8 in. (22 mm) diameter stud. Application rates vary with the size of the stud and other factors such as working conditions.

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