

Weld Optimization: Achieve a Robust Welding Process

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Step 1: Determining Essential Weld Parameters

-We'll determine the essential process parameter and their rough limits which give us a rough estimate on the particulars of your welding process.



Step 2: Execution of a Design of Experiment

-We'll use the boundaries determined in step 1 and run a DOE using Mini-tab to gather information on the robustness and criticality of the process parameters.



Step 3: Results & Analysis

-We'll plot the data from step 2 and analyze the relationships found to determine the "sweet spot" of your process and its robustness.

Understand your weld process!

Weld optimization allows you to "dial-in" the parameters that govern your process in order to achieve a robust and quality weld every time.

Great for difficult to weld materials and joints Including:

- Seaming of thin materials
- Titanium Alloys
- Nickel Alloys
- Stainless

About Applications Technologies Company

Applications Technologies Company (ATC) is the premier welding engineering enterprise in the US. Established to offer engineered welding and manufacturing solutions, our mission is to provide clients with the technical concepts and tools necessary to assist them in achieving and maintaining global competitiveness. Areas of expertise include: welding process selection and optimization; consumable selection; component design for manufacturability; weld quality planning and improvement; supply chain quality management; interpretation and application of welding standards; mechanical testing; nondestructive examination; and automated welding equipment design, fabrication and implementation. With more than fifty years of combined welding engineering and fabrication experience, ATC offers the most cost-effective approach to application of welding and manufacturing technology to maximize your company's bottom line.