

Optimization on Spot Weld Parameters in Resistance Spot Welding Process on AISI 304

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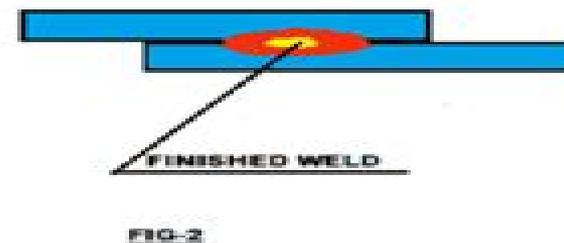
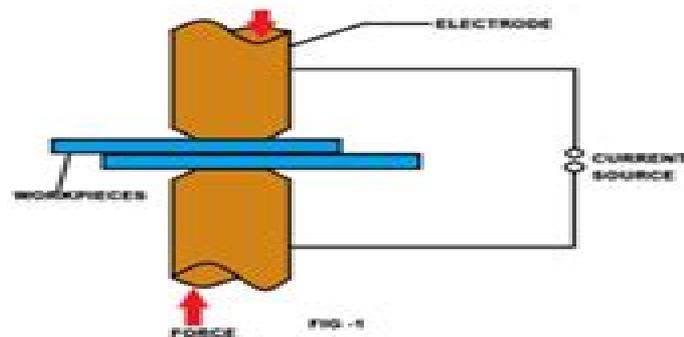
ABSTRACT

The spot welding procedure is used in a variety of industrial applications. The most critical elements influencing welding quality, productivity, and cost are the spot welding parameters. This research examines the effect of welding factors such as welding current and welding time on the strength of various welding joint designs. Resistance spot welding (RSW) is used in the automotive industry for manufacturing. This research focused on the optimization of process parameters for resistance spot welding (RSW), as well as the tensile testing and spot weld diameter. The goals of this analysis are to comprehend the physics of the process and to demonstrate the effect of electrical current, weld time, and material type on the resistance spot welding process.

Keywords-- AISI 304, Spot Welding, Workpieces

I. INTRODUCTION

Spot welding is one of the most used industrial operations. It is a sort of resistance welding in which heat is generated by using the resistance of the workpiece. Because pressure is applied throughout the welding process, resistance welding is also known as pressure welding. This procedure is distinct from others in that no flux or filler material is required for welding. In this procedure, two or more metals are bonded point to point to form the electrode tip shape. Workpieces are put between the electrodes depicted in Fig. 1, and high current is sent between them after applying pressure for a brief period of time. Parts are heated locally in all types of resistance welding. The material between the electrodes is forced together, melting and destroying the space between the sections. After the current is turned off, a "Nugget" of molten material forms after solidifying and establishing joints, as seen in Fig 2.



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Table of Contents Optimization Of Spot Welding Process Parameters For

1. Understanding the eBook Optimization Of Spot Welding Process Parameters For
 - The Rise of Digital Reading Optimization Of Spot Welding Process Parameters For
 - Advantages of eBooks Over Traditional Books
2. Identifying Optimization Of Spot Welding Process Parameters For
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optimization Of Spot Welding Process Parameters For
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optimization Of Spot Welding Process Parameters For
 - Personalized Recommendations
 - Optimization Of Spot Welding Process Parameters For User Reviews and Ratings
 - Optimization Of Spot Welding Process Parameters For and Bestseller Lists
5. Accessing Optimization Of Spot Welding Process Parameters For Free and Paid eBooks
 - Optimization Of Spot Welding Process Parameters For Public Domain eBooks
 - Optimization Of Spot Welding Process Parameters For eBook Subscription Services
 - Optimization Of Spot Welding Process Parameters For Budget-Friendly Options

6. Navigating Optimization Of Spot Welding Process Parameters For eBook Formats
 - ePub, PDF, MOBI, and More
 - Optimization Of Spot Welding Process Parameters For Compatibility with Devices
 - Optimization Of Spot Welding Process Parameters For Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optimization Of Spot Welding Process Parameters For
 - Highlighting and Note-Taking Optimization Of Spot Welding Process Parameters For
 - Interactive Elements Optimization Of Spot Welding Process Parameters For
8. Staying Engaged with Optimization Of Spot Welding Process Parameters For
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optimization Of Spot Welding Process Parameters For
9. Balancing eBooks and Physical Books Optimization Of Spot Welding Process Parameters For
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optimization Of Spot Welding Process Parameters For
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Optimization Of Spot Welding Process Parameters For
 - Setting Reading Goals Optimization Of Spot Welding Process Parameters For
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Optimization Of Spot Welding Process Parameters For
 - Fact-Checking eBook Content of Optimization Of Spot Welding Process Parameters For
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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