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NEVEAH GRETCHEN

Automating the Welding Process Industrial Press Inc.
In Phase I of this project, an automatic seam tracking/adaptive control welding system, the M1000, was evaluated and weld-tested using the high heat, pulsed gas metal arc welding process. Phase I concluded with the finding that thru-the-arc seam tracking with computer control and adjustment of welding parameters was a viable technology. Potential savings in welding time would he possible if further development of hardware and computer software were achieved to more fully realize the potential of the system. Needed improvement in consistency of system response to changing conditions in the weld were recognized. It was determined that the most efficient utilization of available funds was support of development of weld head contact tips, which could function over longer periods of continuous welding without need for replacement due to wear. That objective became the primary focus of Phase II, the results of which are the subject of this report. The work reported involved the testing of the best identifiable candidate materials for improving contact-tip life. The material that provided the best results was the Series S, KWMA, Class 3 electrode material. It resulted in continuous running time of 99.8 minutes, significantly better than the 70 minutes minimum that was targeted. Another finding was that contact-tip life can he improved up to 77% by using an adaptive welding power supply which automatically compensates for varying contact-tip conditions.
Tracking System for Automatic Welding. Phase 2. Improvement of Contact-Tip Life for Through-the-Arc Welding System CRC Press
World class manufacturers have achieved great success with robots and automated machines. Your competition is increasingly becoming more global, and automating your welding operations is not only feasible but it is also becoming more necessary. One day, automation will become essential for survival, and welding automation can be an important step toward prosperity.
Arc Welding Automation Woodhead Publishing Limited
"Describes the different variables involved in arc welding and how they interact. Examines the welding capabilities of mechanized, automatic, adaptive control, and robotic systems. Delineates the advantages of welding automation and offers practical strategies for its implementation."
Technical Aids for Small Manufacturers
"Current welding literature" included in each volume.
Automatic Welding
The requirements for welding process control are discussed in terms of today's numerical control, adaptive control and optimum control concepts and the future requirements for welding process automation are indicated. The advances in automatic welding made over the last 20 years are reviewed by example. Multiaxis positioning, seam tracking systems, penetration controls and other fusion welding control devices as developed during the 1960's are reviewed. The utilization of almost completely automated resistance spot welding operations in the automotive industry is also covered. Although the development of automated fusion welding processes has been slow, the advent of minicomputers should quicken the pace of automated welding applications in industry. Wider applications for automated welding systems outside quantity production, will come with new quality sensing systems, standardization and adaptation of weldment designs for automated welding.
Standard for Components of Robotic and Automatic Welding Installations
Semi-Automatic Welding Processes
Electric Welding
Technical Guide for Gas Tungsten Arc Welding
Welding, Heat Cutting and Metalizing Equipment
Electric Arc Welding
Automation in Welding
Robotic Welding
Arc Welding and Cutting Manual
Model iii automatic tube welding machine tube weld head maintenance and repair
Welding Design & Fabrication
Welding Industry in USA, W. Germany, and Britain
Welding Journal
Guide for Components of Robotic and Automatic Arc Welding Installations
Welding Handbook