

A NEW TYPE OF ONLINE MEASUREMENT SYSTEM FOR RESISTANCE WELDING

BOLLE, J.; BLIEDTNER, J.; BUERGER, W.;
FABER, W. & ZWEINERT, K.

Abstract: Resistance welding is still widely used in carbody production. The character of the measurements demonstrated here is to detect the spot weld's quality by regarding the dynamic strain properties of the spot welding gun during the welding process. With this setup an online diagnosis and simultaneously working quality supervision and parameter regulation is possible. As the quality of each single spot weld can be documented online the whole system has a foreseeable future in the automotive sector.

Key words: Process control, resistance welding, online quality evaluation, automation



Authors' data: Prof. Dr. Bolle, B., Prof. Dr. Bliedtner, J.; Prof. Dr. Buerger, W., Prof. Dr. Faber, W., Prof. Dr. Zweinert, K., University of Applied Sciences, Jena; MSC Ltd., Halle, Germany

This Publication has to be referred as: Bolle, J.; Bliedtner, J.; Buerger, W.; Faber, W. & Zweinert, K. (2006). A New Type of Online Measurement System for Resistance Welding, Chapter 07 in DAAAM International Scientific Book 2006, B. Katalinic (Ed.), Published by DAAAM International, ISBN 3-901509-47-X, ISSN 1726-9687, Vienna, Austria

DOI: 10.2507/daaam.scibook.2006.07