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On Cold Welding Achievement between Cogged Surfaces

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ABSTRACT

Based on previous experience in the field of cold pressure welding, authors propose a new joining technique for dissimilar materials. Method novelty consists in cogging the contact surface of the harder material. Thus, cold-welded assemblies between Aluminum and other materials like copper, brass or even stainless steel can be obtained. The paper presents several theoretical considerations regarding the cold welding achievement due to the material cogged contact surface and also the process laboratory tests developed in Robotics and Welding Department of Galati University.

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