Tool Forces Developed During Friction Stir Welding

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 38 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.This paper will describe a technique for measuring the various forces and the torque that exist on the Friction Stir Welding pin tool. Results for various plunge depths, weld speeds, rotational speed, and tool configurations will be presented. Welds made on 6061 aluminum with typical welding conditions require a downward force of 2800 lbs. (12. 5 kN) a longitudinal force in the direction of motion of 300 lbs (1. 33 kN), a transverse force in the omega x v direction of 30 lbs (135 N). Aluminum 2195 under typical weld conditions requires a downward force of 3100 lbs. (1. 38 kN), a longitudinal force of 920 lbs. (4. 1 kN), and a transverse force of 45 lbs. (200 N) in the omega x v direction. This item ships from La Vergne,TN. Paperback.

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