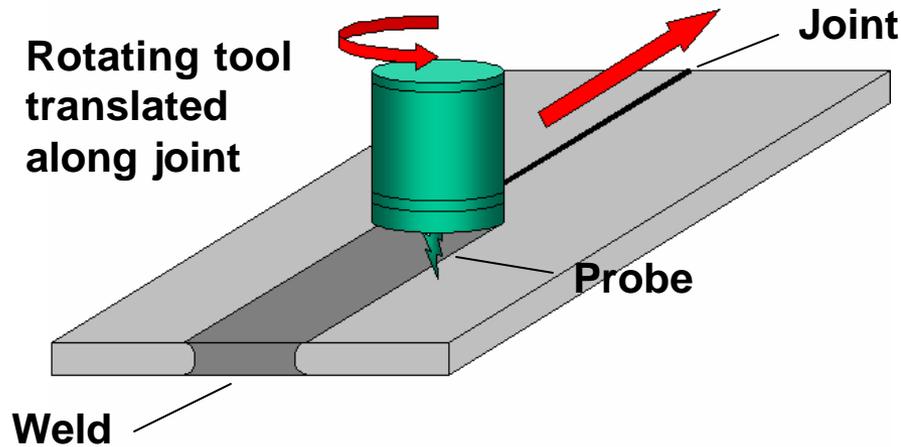


Stress Corrosion Cracking in Friction Stir Welded 2519 Aluminum

FRICTION STIR WELD PROCESS



Progress

Testing indicates FSW weld is at least as resistant to stress corrosion cracking as GMA welds.

Objective

To evaluate the susceptibility of Friction Stir Welded 2519 Aluminum to Stress Corrosion Cracking

Approach

- Modified ASTM Test for Intergranular Corrosion
- Constant Extension Rate Test for Stress Corrosion

Payoff

Fundamental knowledge will be provided to AAVV program on the consequences of using friction stir welding for the aluminum hull.

Principal Investigator

Rockwell Science Center