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Keywords—Friction welding, Mechanical and Microhardness Tests tests I INTRODUCTION Friction welding (FW) is a complicated process, which involves interaction of thermal, mechanical and metallurgical phenomenon Friction welding comes under the category of solid welding process in which the heat for welding process at

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Friction welding (FW) is a particular welding process that generates heat through mechanical friction between a moving workpiece and a stationary component. The combination of force and heat, direct at the weld interface, yields relatively small HAZs. There are mainly two types of FW, rotary FW and friction stir welding. In rotary FW, one component is rotated against the other, while in friction stir welding, a nonconsumable rotating tool is pushed into the materials welding them together.

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Friction welding (FRW) is a solid-state welding process that generates heat through mechanical friction between workpieces in relative motion to one another, with the addition of a lateral force called "upset" to plastically displace and fuse the materials. Because no melting occurs, friction welding is not a fusion welding process, but a solid-state welding technique more like forge welding.

*Friction welding - Wikipedia*

FRICITION WELDING Friction welding is defined as a solid state metal joining process, heat in friction welding is generated by conversion of mechanical energy into thermal energy at the interface of work pieces during rotation under pressure Various ferrous

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Friction stir welding is a solid state joining process, which has been considered the most important development in the welding technology, in the last decade, especially in the joining of light alloys such as aluminium alloys. The increasing applications of these materials in industry give rise to significant development of this process in world scale.

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