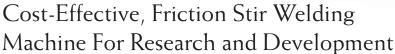
FRICTION STIR WELDING

MANUFACTURING TECHNOLOGY, INC





The RM-1 from Manufacturing Technology, Inc. is our most popular Friction Stir Welding machine. The machine features high force and low spindle run-out and full data acquisition capabilities for FSW research.

APPLICATIONS:

- Designed for stiffness and low spindle runout for welding steels and high temperature alloys with PCBN tools
- Features a user-friendly operator interface which includes full data acquisition and display capability. Programmed and actual forces may be displayed along with position and velocity data
- Now in use by Spirit Aerosystems, Mitsubishi Heavy Industries and Idaho National Laboratory for advanced FSW research

Manufacturing Technology, Inc. offers consulting, design and build services for Friction Stir Welding machines and tooling. We are licensed and listed by The Welding Institute (TWI) as a Friction Stir Welding machine manufacturer.



Intuitive Graphical User Interface

SYSTEM SPECIFICATIONS:

X axis: 700mm Standard. 3000mm Available

3000mm/min velocity,

servo controlled

Y axis: 300mm stroke (optional servo)

Z axis: 200mm stroke

67 kN (15,000lbf) axial force

3 Control Modes:

Force Control Position Control

Position with Deflection

Compensation

Tilt: 0 to +6 degrees

Spindle: 15 kW (20 HP) Vector Drive

Up to 3000 RPM available

Up to 268 Nt-m (2360 lb-in) torque

NMTB 50 Mounting Taper Ultra-low run out Spindle

for PCBN Tools

Weldable Materials Include

Carbon steels, HSLA, 304 & 316 Stainless

Inconel 600, 718



1702 West Washington Street | South Bend, IN 46628 | www.mtiwelding.com | Phone: (574) 233-9490 DIRECT DRIVE - INERTIA - LINEAR - STIR - RADIAL - RESISTANCE





