



Intuitive Graphical User Interface

The Premier High-Torque, High-Stiffness Friction Stir Welding Machine for Research and Development

The RM-2 from Manufacturing Technology, Inc. is designed for more demanding Friction Stir Welding applications. It sets the standard for stiffness and precision for advanced FSW research.

APPLICATIONS:

- Designed for high-capacity, high-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
- The RM-2 has been selected by The Welding Institute (TWI) and Brigham Young University for advanced materials 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.

SYSTEM SPECIFICATIONS:

- X axis:** 2000mm Standard,
3000mm Available
3000mm/min velocity,
servo controlled
- Y axis:** 60mm stroke (optional servo)
- Z axis:** 500mm stroke
100 kN (22,500lbf) axial force
- 3 Control Modes:**
 - Force Control
 - Position Control
 - Position with Deflection
Compensation
- Tilt:** 0 to +10 degrees
- Spindle:** 37 kW (50 HP) Vector Drive
Up to 3000 RPM available
Up to 768 N-m (6800 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



Manufacturing Technology, Inc.
Solid-State Joining & Welding Solutions, Equipment & Services

1702 West Washington Street | South Bend, IN 46628 | www.mtiwelding.com | Phone: (574) 233-9490

DIRECT DRIVE - INERTIA - LINEAR - STIR - RADIAL - RESISTANCE



www.mtiwelding.co.uk



www.mtiwelding.com



www.mti-nash.com