



Full-featured CNC User Interface

## Multi-Axis Friction Stir Welding Machine for Complex Contours

The new GG-1 from Manufacturing Technology, Inc. is a multi-axis machine for Friction Stir Welding and Processing. It is specifically designed for applications requiring precision and high stiffness. The large work envelope makes this machine ideal for large components and structures.

### APPLICATIONS:

- Aerospace:  
Wing and Fuselage structures
- Defense:  
Fabrication and repair of large components
- Ship Propellers
- Transportation equipment

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: .5 meter to 10 meters

Y axis: 2500mm

Z axis: 1270mm

A axis: -5 to +95 degrees

C axis: 360 degrees

Welding Speed:  
1800mm/min

#### Control:

Multi-axis CNC w/force or position control  
Full Data Acquisition System

#### Spindle:

15kW (20 HP) Vector Drive  
67kN (15,000lbs) Axial Force  
Various speed and torque combinations available

#### Rotary Table Axis:

Available as an option



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

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