LS-1 MODEL

FRICTION STIR WELDING

MANUFACTURING TECHNOLOGY, INC



The LS-1 Friction Stir Welding machine is a moving C-frame styled welder for Linear Seam Welding and general production. This machine is ideal for joining flat panels or extrusions of varying widths and lengths. Modular base sections with rack and pinion drive system make it possible to achieve any desired system length. Coordinated Y-axis and an optional turntable provide maximum versatility.

APPLICATIONS:

- Extrusion joining
- Decking for ships and aircraft
- Structural components
- General fabrication

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: 1m to 100m or more

Up to 5000mm/min velocity,

servo controlled

Y axis: 1 meter standard

Z axis: 600mm stroke, force or

position controlled

50 kN (11,200lbf) axial force

Tilt: +/-5 degrees

Spindle:

15 kW (20 HP) Vector Drive Various speed and torque combinations available

Rotary Table Axis:

Available as an option

Control:

Force or Position control modes Full Data Acquisition System



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





