A single-source for Contract Friction Stir Welding needs, MTI offers a broad range of Friction Stir Welding capabilities and an array of in-house value-added services including weld joint design, process parameter development, and pre- and post-weld processing.

### PANEL JOINING AND SERVICES - OUR CAPABILITIES

Having designed, manufactured and installed Friction Stir Welding machines around the world, MTI’s Manufacturing Services has leveraged that in-house expertise to offer world-class friction stir contract welding capabilities:

- Joining multiple extrusions into wider panels.
- Joining covers to complex fluid paths on heat sinks and pressure vessels.
- Simultaneously perform two-side welds on thick panels and two skin extrusions.
- Joining multiple single-wall extrusions to stiffeners.
- Exceptional weld capacity maximum size greater than 60 ft. long by 18 ft. wide.
- Able to join four feet wide sheet stock up to 1.5 inch thick.

### UNIQUE ADVANTAGES OF MTI AS YOUR SINGLE-SOURCE SOLUTION:

- Single source from concept to finished product.
- Broad product size range.
- A large weld bed and outriggers.
- MTI has an extensive experience base to help customers with design to arrive at the best panel-joining solution possible.
- Full metallurgical evaluations and testing of panel joints are available.
- Customers can develop various panel requirements without affecting in-plant production facilities.
WHY FRICTION STIR WELDING?

Friction Stir Welding (FSW) from MTI is making a dramatic impact across many industries, including aerospace, aviation, transportation, military and marine. In the marine industry alone, FSW is used to create large aluminum panels for shipbuilding structures and decks — panels with vastly reduced rework for correcting warp and distortion that is commonly found in fusion welding.

The transportation industry has capitalized on large, FSW-fabricated panels for use in tractor trailer flatbeds and railcar manufacture.

UNIQUE ADVANTAGES

Unparalled Quality Credentials:
• ISO 9001:2008 Certified
• AS9100 Certified
• Nadcap AS7003 Certified
• ABS Certified Welder
• ABS Certified FSW Process

Access to extensive FSW processes and equipment expertise.

Experience in space, aerospace, marine, construction, automotive and transportation industry regulations and requirements.

For more information on Manufacturing Services, send detailed inquiries to: cwinfo@mtiwelding.com