

Friction Welding Line Card

American Friction Welding (AFW) operates 14 high-precision friction welders in a 63,000 square foot, climate-controlled ISO 9001:2015 certified facility located in Waukesha, WI, providing subcontract welding services since 1986. AFW rotary friction welds a wide variety of components for the aerospace, automotive, defense, food processing, heavy equipment, marine, medical equipment, military, mining, oil and gas, power generation, space, and transportation markets.

High-Value Friction Welding

- AFW offers the most diverse combination of friction welding size capacity.
- State-of-the-art process monitoring systems and automation capability.
- Kanban and stocking programs tailored to fit your needs.

Working Material

- Metal Types: alloy steel, aluminum, brass, bronze, carbide, carbon steel, copper, Incoloy, Inconel, molybdenum, Monel, nickel, silver, stainless steel, titanium, tungsten, and Waspaloy
- Material Types: Castings, forgings, billets, bar stock, and plate

Part Parameters

- Part Diameters From Fractions of an Inch Up to 6.25" Solid Bar
- Part Lengths From an Inch Up to 20 Feet
- Call to Discuss Your Specific Part Requirements

Rotary Friction Welding Centers

- 250 Ton Welder
- 125 Ton Welder
- 100 Ton Welder
- 90 Ton Welder
- 50 Ton Welder
- 45 Ton Welder
- 30 Ton Welder
- 20 Ton Welder
- 15 Ton Automation
- 15 Ton Welder
- 10 Ton Welder
- 8 Ton Welder
- 4 Ton Welder
- Micro Welder

Inspection

- Weld Validation – AWS C6.2
- Ultrasonic Inspection
- Destructive Testing

Applications

- Drill Rod
- HDD Pipe
- Plunger Rod
- Mud Pump Valves
- Frac Pump Valves
- Pump Shafts
- Hydraulic Rods and Ends

Advantages

- Net-Near Shapes
- Dissimilar Metal Welding
- Join Unusual Shapes
- Increased Weld Strength
- Part Weight Reduction
- Reduce Material and Machining Cost

Certifications

- ISO 9001:2015 Certified

teamafw.com/quality-management-system/

Family of Companies



WORLD-CLASS PRECISION MACHINING

Large Part Machining
traceamatic.com



Metal Stamping
dhemetalstamping.com



Welding Fabrication
cefabrication.com



Small Part Machining
machiningconcepts.com

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