

Supply Chain Manufacturing

American Friction Welding serves as a supply chain partner to customers providing turn-key solutions for their long-term manufacturing programs. As the United States' largest subcontract friction welder, our programmatic approach offers complete control from start to finish over proof of concept development, procurement, high-volume manufacturing, product quality, inventory control, and on-time delivery. AFW offers a competitive advantage through its efficient supply chain model offering increased productivity, reduced manufacturing cost, and unmatched customer service while combatting supply chain disruptions.

✓ Proof of Concept

Proficient in new product development and vast experience in dissimilar metal welding. Experts at developing manufacturing methods that ensure part quality, manufacturing repeatability, and overall tolerance requirements.

✓ Quality Protocol

Quality plan controlling all aspects of the manufacturing process, testing procedures, document control, and reporting requirements.

✓ Procurement

Supply chain management of exotic and standard metal acquisition, ERP system triggered buying ensuring on hand material with lead time monitoring.

✓ Scheduling

Providing priority scheduling over non-programmatic work with program status reporting response within 24 hours.

✓ Production

Massive machining capacity of 63,000+ sq. ft. climate-controlled environment, 18 high-precision friction welders, with a highly-skilled workforce. Lean manufacturing and Kanban program approach with friction welding center redundancy and dedicated production cells option.

✓ Inspection and Testing

In-process and final inspections — Ultrasonic flaw detection E114, non-destructive and destructive testing protocols.

✓ Managed Processes

Precision CNC machining, thermal processes, coatings, raw material acquisition.

✓ Inventory Control

Real-time inventory management with Kanban pull system replenishment and forecast-driven SCM.

✓ On-Time Delivery

Programmatic manufacturing ensures process control for on-time delivery.



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