



Capabilities Statement

Quality Manufacturing Through Process, Technology, and Innovation

JWF Defense is Your Force Multiplier

For additional information contact:

John J. Polacek, Chief Operating Officer
814-269-6922 or jpolacek@jwfi.com

Shawn Koontz, Business Development
814-532-4144 or skoontz@jwfi.com

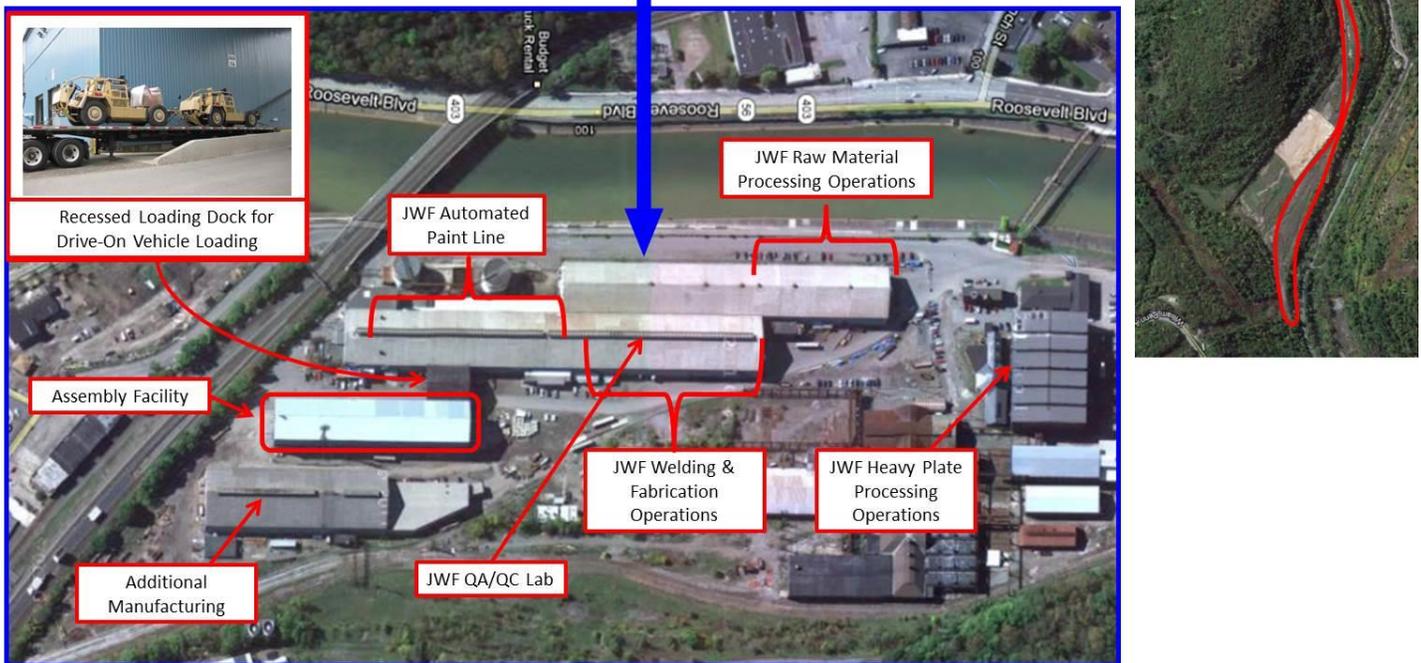
JWF Defense Systems, LLC (JWF) has been supporting prototypes, low volume, and high volume build-to-print production on a variety of Department of Defense (DoD) and other Federal Government agency projects since 2002.

Our customers include such companies as Lockheed Martin, General Dynamics Land Systems (GDLS), DRS, BAE Systems, and Kongsberg Protech Systems. JWF was designed from the ground up to be a vertically integrated fabricator. This gives us complete control over planning, scheduling, and quality. And it provides our customers with an end-to-end manufacturer who supplies a cost effective, quality product.

We are a division of JWF Industries, a one-stop, small business manufacturer that has been in business for 30 years. We feature over 1,000,000 square feet in four primary manufacturing locations. Our headquarters is located in a former steel mill, adjacent to an international steel service center that is secured by a surrounding fence, video monitoring, and 24-hour security service. Adjacent to our facilities in the rugged hills of western Pennsylvania is a vehicle test tract.



JWF Defense Systems, Iron Street Facility,
Johnstown, PA



Through our various ISO9001:2008 and other industry certifications, we can assure our customers that we are defining our success in their terms, based on their measurements. Our documented processes and procedures enable us to ensure quality and repeatability regardless of the personnel performing the work.

Our core competencies include:

- **Welding:** We have over 150 AWS Certified Welders and specialize in complex, large weldments that generally involve close tolerances. Our equipment includes 195 Calibrated Welding Machines and 14 Single and Dual Arm

Robotic Welders. Certified Welding Inspectors (CWI) and Certified Welding Educators (CWE) are on staff to maintain and regulate welding processes

- **Machining:**

Precision machined components from the simplest piece to complex 5-axis parts are manufactured at JWF's 50,000 square foot machining center. Over 30 highly skilled machinists work side by side with the quality department to ensure exact tolerances are held and quality parts are produced and shipped on time.



- **CARC Painting:** JWF can pre-treat and coat parts to various military specs including TT-C-490, MIL-DTL-5541 and MIL-DTL-53072 (CARC). We have the capability to process parts through an overhead conveyor coating system that includes an automated blast system and a six-stage wash and pre-treatment system. This includes capabilities for both wet and powder coating applications. Custom parts not suitable for processing on the conveyor system or requiring special handling can be cleaned, pre-treated and coated using stand-alone cleaning, pre-treatment and coating booths.
- **Laser Cutting:** Equipped with an ADIGE 702D tube laser and four 4,000 watt Mitsubishi lasers, JWF is capable of cutting virtually any pattern in a piece of tube while holding a tolerance of seven thousandths of an inch (or the equivalent of three human hairs). Tube wall thicknesses up to 3/8" and length up to twenty feet by 6" diameter are within JWF's capabilities. The ADIGE 702D is equipped with the "Delicate Tube Handling System" option for cutting tube as small as 12mm
- **Forming:** Our hydraulic press brakes range in size from 150 to 1000 tons with bed lengths from 12 to 20 feet. Combined with a vast array of tooling and nearly 30 years of forming experience, we have the versatility necessary to tackle your most demanding projects.
- **Vehicle Builds:** Whether it's a "ground-up" vehicle build or an armor package install, JWF Defense has the knowledge, aptitude, and past experience required to make vehicle and trailer projects a success. We have fabricated and assembled military vehicles from the fame up since 2009. Not only can we provide turnkey service for all aspects of vehicle builds and integration, we can also test them on our own test track.
- **Armor Kits:** We have performed all facets of engineering, design, manufacturing, and installation of armor kits that included cutting, forming, welding and CARC painting of armor plate. We have also fabricated composite armor panels from armor plate, dyneema and/or Kevlar and have performed vehicle teardown and armor kit installation.
- **Tanks and Containers:** Through another division within JWF Industries, Environmental Tank & Container (ETC), we have the necessary certifications to manufacture containment vehicles, tanks and pressure vessels.
- **Engineering:** Our engineers will design from a simple sketch, 2D prints, or 3D models, whether they're on paper or in electronic format. We often design and fabricate parts from the "ground up" based solely on customer inputs. Our engineers and production specialists work closely with our customers to recommend materials and components designed to meet their budget and then develop efficient manufacturing processes.
- **Program Management:** Our program managers (PM's) utilize our Manufacturing Resource Planning (MRP) system to maintain tight control of our projects from kick-off through completion. Our single point-of-contact approach allows our PM's to function as the customer's in-plant eyes and ears. They are responsible for all budgets, quality, and scheduling objectives and communicate this critical information to the customer.

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