



MILLER

FABRICATION SOLUTIONS

Helping Forge OEM Innovation™



A Strategic Partnership to Strengthen Your Competencies, Not Your Risk

For today's Original Equipment Manufacturers (OEMs) with a global presence, product innovation is a dynamic force that separates the disruptive from the complacent. It calls for concentration on your core competencies, and an integrated supply chain to meet your complex demands. Miller Fabrication Solutions is a fundamental link in the OEM supply chain, as a strategic partner specializing in labor-intensive, value-added metal fabrication projects.

Delivering exceptional quality and extensive capabilities in conjunction with modern technology and state-of-the-art equipment and facilities, the total Miller Fabrication Solutions customer experience works to ensure that your project measures are exceeded now, and in the future.

Forge innovation and mitigate your risk by collaborating with one of the top OEM fabricators in the United States*. **Make the move to Miller.**

OUR INDUSTRIES

Miller Fabrication Solutions serves a variety of OEM industries, including:

- Construction Equipment
- Mining and Oil & Gas Equipment
- Agricultural Equipment
- Material Handling and Conveying Equipment
- Engine and Turbine
- Industrial Machinery
- Transportation Equipment
- Valve and Hose

*Based on 2019 FAB40 rankings, *The Fabricator*® magazine



Sparking Customer Success for Over 50 Years

COMPANY HISTORY

The roots of Miller Fabrication Solutions were planted in the mining and lumber industries in Western Pennsylvania, when David R. Miller began his three-person welding and machining operation in 1963. He later branched out to steel companies and, by the 1980s, the company had expanded its service coverage to include industrial fabrication and machining. In 2000, Miller Fabrication Solutions added mechanical assembly and painting solutions for OEMs.

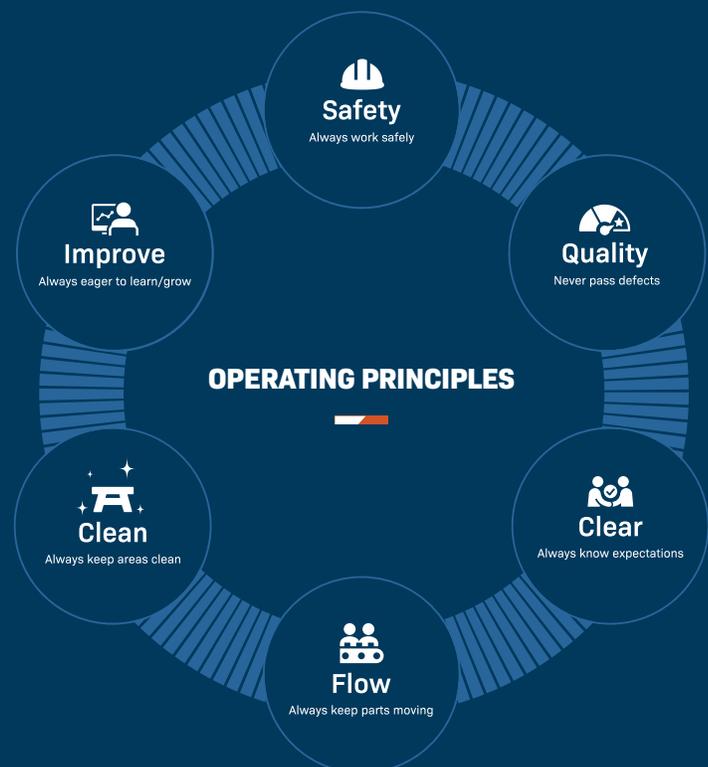


Today Miller Fabrication Solutions has matured into a fully integrated, strategic partner with approximately 400 employees across three plant locations. The company provides metal manufacturing and value-added solutions for innovative OEMs with worldwide operations.

THE MILLER MISSION

The mission of Miller Fabrication Solutions is to produce high-quality parts and assemblies by continually improving internal processes. The company aims to be timely and efficient in order to exceed the expectations of customers.

At the same time, Miller Fabrication Solutions seeks to invest in new technology, provide employees with a safe work environment, and build long-term relationships with customers, vendors, employees and the community through professional and ethical conduct.



Total Solutions



JEFFREY SNIDER

VOLVO CONSTRUCTION EQUIPMENT

[Miller Fabrication Solutions] has become our preferred supplier, implementing lean manufacturing principles and numerous quality and delivery improvements that benefit our bottom line. They have made capital investments to support our growth. [Miller Fabrication Solutions] has not only met our goals, but exceeded them, becoming a true partner for the long-term.

The Miller Customer Experience

PROVEN PROCESSES FOR OPTIMAL OUTCOMES

For OEMs with metal fabrication budgets of 1 million USD and higher, you should expect a culture of continuous innovation from your strategic partner for an optimal customer experience. Miller Fabrication Solutions undertakes each of the following steps to ensure your goals are exceeded the first time, every time.



Manufacturability alignment

Prior to the awarding of a project, the sales, engineering, quality, and operational teams at Miller Fabrication Solutions work to analyze your designs, processes and quote to ensure complete manufacturability alignment.



Business process review

The assignment of a project kicks off a review of demand forecasts, lead times, economic order and release quantities (EOQ), inventory and e-commerce needs and quality and delivery requirements.



Prototype production

As business processes are reviewed, the Miller Fabrication Solutions team conducts a final check of product requirements and finalizes the prototype production process. Production then begins, followed by inspections, customer approval, and the submittal of related paperwork or data that should be included with the shipment. Based on customer and Miller communications, the process is adjusted accordingly.



Release for ongoing production

Upon successful prototype completion, the project is released for production. In-process inspections are conducted while production is refined to increase cost savings.



Regular reviews

Future demand, in the form of blanket POs, forecasts, or other means, is measured and matched to upcoming production each month. Project performance is assessed, reported and communicated monthly, with in-person customer plant visits scheduled on a quarterly or annual basis.

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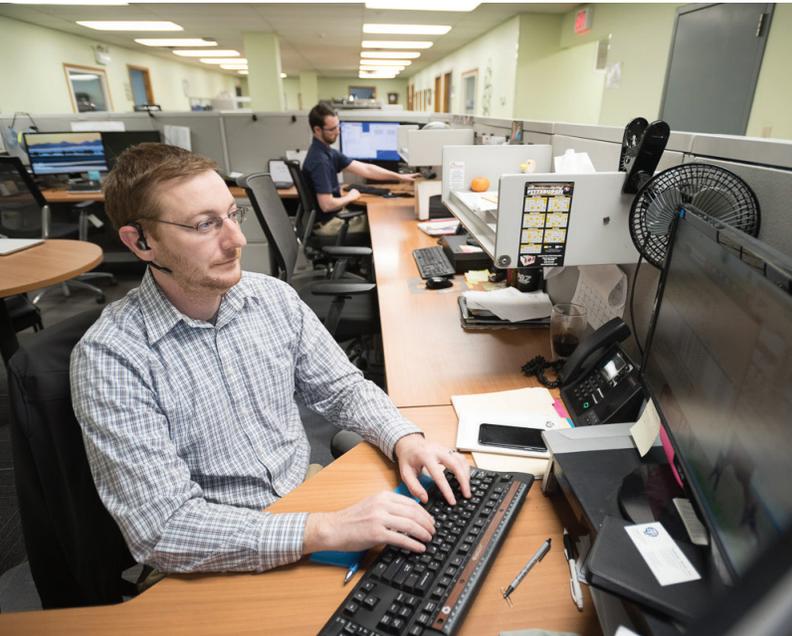
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Value-Added Solutions



Value Analysis/Value Engineering (VA/VE)

The beauty of the Miller VA/VE solution lies in the analysis of your engineering designs - not only for manufacturability, but the lowest total cost - all while still meeting your high-quality specifications.



Logistics Optimization

The improvement of your transportation costs can have a big impact on your project spend. With the Logistics Optimization solution, Miller Fabrication Solutions offers returnable and stackable container programs as well as the ability to maximize your truckloads, routes and carriers for even greater shipping savings.



On-Time Production Scheduling

Through the sharing of your planned and firm demand forecasts and delivery goals and requirements, Miller Fabrication Solutions works with you to ensure that your project is consistently produced on schedule for on-time delivery.



Capacity Management

The Capacity Management solution at Miller Fabrication Solutions is a dynamic analysis of its entire supply chain. By modeling different scenarios, Miller has the ability to identify potential gains in cost, service and risk mitigation for the benefit of your project.



Inventory Management & Control

Whether you're in need of finished goods, raw materials, safety stock, or Just-In-Time (JIT) inventory, Miller Fabrication Solutions has you covered.

Its Inventory Management & Control solution gives you the flexibility to determine quantities, delivery conditions and other factors based on your objectives. And with a track record of 99.92% IRA for over \$50 million in inventory transactions, Miller Fabrication Solutions has the best-in-class methods to handle your plans and report your results.

Manufacturing Solutions

Industrial Fabrication

Miller Fabrication Solutions provides you with a turnkey, Industrial Fabrication solution for your high Estimated Annual Usage (EAU) steel and sheet metal projects. The latest in metal forming and laser, oxy-fuel and plasma-cutting equipment is utilized to fabricate metal from 1/2-2 inches (6.35-50.88 mm) thick, with the ability to process materials up to 10 inches (254 mm) in plate thickness.

Whether your project involves sheet metal cuts, tube, bar and structural work, ready-to-assemble kits and more – Miller is your go-to Industrial Fabrication solution provider.

Welding

For high-volume welding, Miller Fabrication Solutions uses a number of CNC-programmed robotic welding machines. Gas metal arc and flux core welding arms can weld multiple joints simultaneously, trimming cycle times while meeting production and quality demands.

Miller also offers MIG and TIG welding solutions to undertake your precise requirements.

Machining

Miller Fabrication Solutions offers Machining solutions for projects with tight tolerances, generally within .001 inches (.0254 mm).

These capabilities span milling, boring, turning, drilling, tapping, profiling and pocketing, among other Machining solutions, to satisfy your custom needs.

Coating/Finishing

As part of its total Finishing solution, Miller Fabrication Solutions allows you to select your custom color, hue or texture from RAL color standard, Pantone (PMS) or other sources to ensure your fabricated metal part matches your exact specifications. Detailed preparations, which include blasting and a chemical conversion process, are then applied prior to the robotic and manual application of liquid (“wet”) or powder coatings.

Mechanical Assembly

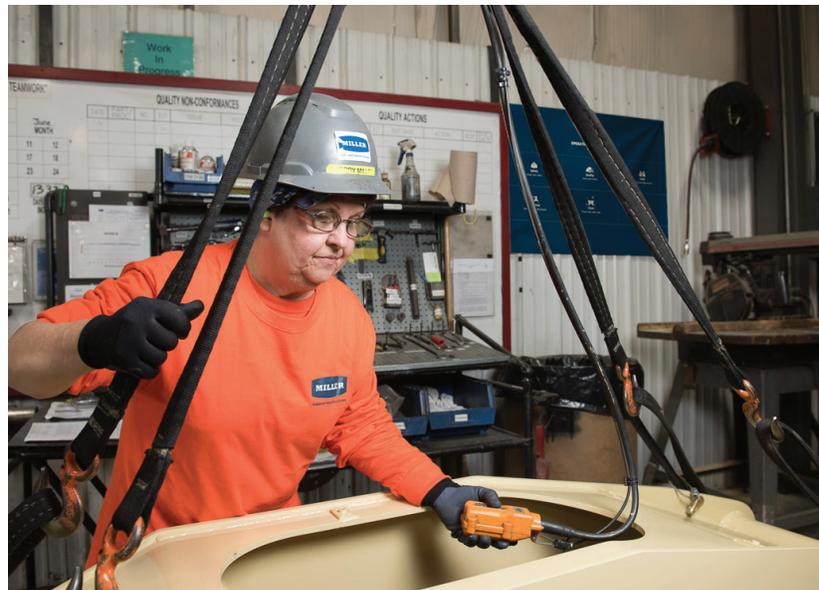
Your metal parts may be fitted by Miller Fabrications Solutions with additional components, such as hydraulics, gears, motors, solar panels and other hardware, by employing its Mechanical Assembly solution. Complete your finished parts with branded packaging before shipment to your location or directly to your customer.



State-of-the-Art Equipment & Facilities

OUR INVESTMENT. YOUR RETURN.

A true strategic partner will have the resources and flexibility to adapt to your ever-changing requirements. For Miller Fabrication Solutions, this means a continual evaluation of existing and new equipment, processes and standards to ensure your projects are handled efficiently and effectively.



WORLD-CLASS MACHINERY

Miller Fabrication Solutions owns and operates world-renowned robotics and automation to tackle your most intricate designs.

Major machinery includes*:

- ARKU FlatMaster® 120
- Toyoda FH630SX Horizontal Machining Center with Fanuc 31i controls
- Giddings and Lewis RT1250 HBM with Fanuc 310i Controls

AN ENTERPRISE FOOTPRINT

When it comes to OEM part production, size matters. Miller Fabrication Solutions has 500,000 square feet in plant space across three facilities to handle your most complex and diverse project needs.

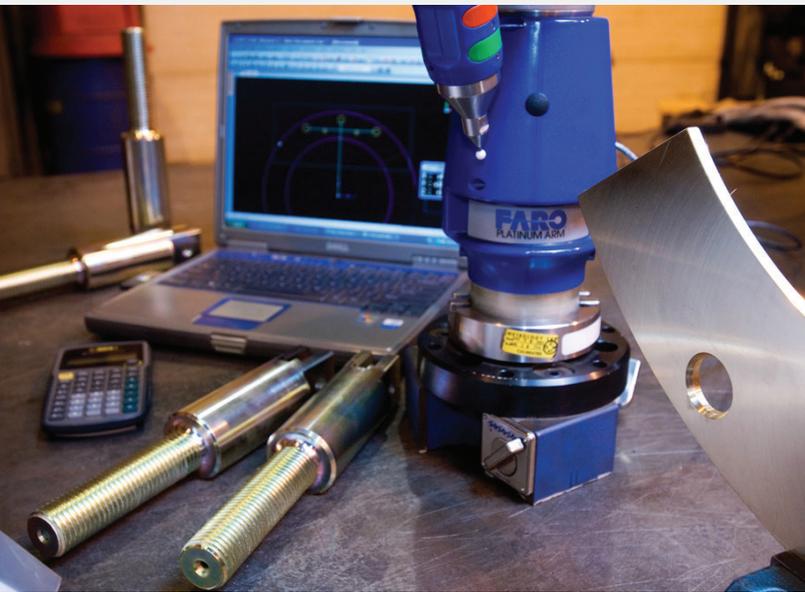
Add in a lean focus, and you know you're working with a fabrication partner that possesses both the agility and capacity to streamline your metal parts production workflow.

*For a full equipment list, visit www.millerfabricationsolutions.com

Modern Technology

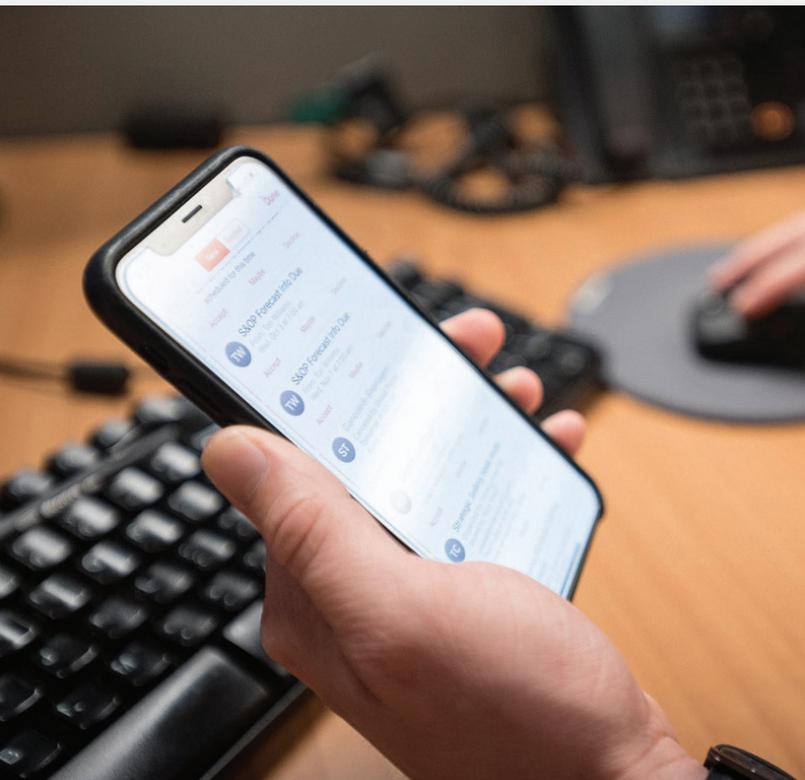
INDUSTRY 4.0 FABRICATION

The fourth industrial revolution is all about smart, connected systems throughout the value chain. The digital transformation is alive and well at Miller: from integrating customer portal access to tapping into the Internet of Things (IoT) to leveraging predictive maintenance (PdM) technologies.



Smart manufacturing necessitates an advanced security strategy. Some of the safeguards applied at Miller Fabrication Solutions include:

- Network monitoring by security appliances for inbound and outbound traffic
- Advanced endpoint threat detection
- Third-party verification of security processes to identify vulnerabilities and reduce the potential for security problems
- Regular training for employees on cybersecurity issues, such as phishing attacks



CHUCK TORNGA

TIRX MOTO

The extensive manufacturing capabilities of Miller were a pretty quick indicator that this company could take on not only significantly complex projects, but a variety of production volumes.

Zero-Defect Mission



RAISING THE BAR

Miller Fabrication Solutions is dedicated to raising the quality standards most OEMs expect from their strategic partners. This includes methodical inspections of parts, in addition to internal and external audits, certifications and reporting. After all, on-time receipt of high-quality parts translates directly into high productivity and high satisfaction among your customers. You can be confident in fulfilling your customer promise with the Miller Zero-Defect Mission.

CONTINUOUS IMPROVEMENT FOR CONSISTENT RESULTS

Company-wide continuous improvement initiatives are at the forefront of the Miller Zero-Defect Mission. From the implementation of 5S to kaizen events to Total Productive Maintenance (TPM), Miller Fabrication Solutions approaches lean manufacturing as a journey, not a destination. The effectiveness of this practice is validated by consistently high performance.

An Ironclad Commitment to Safety & Health

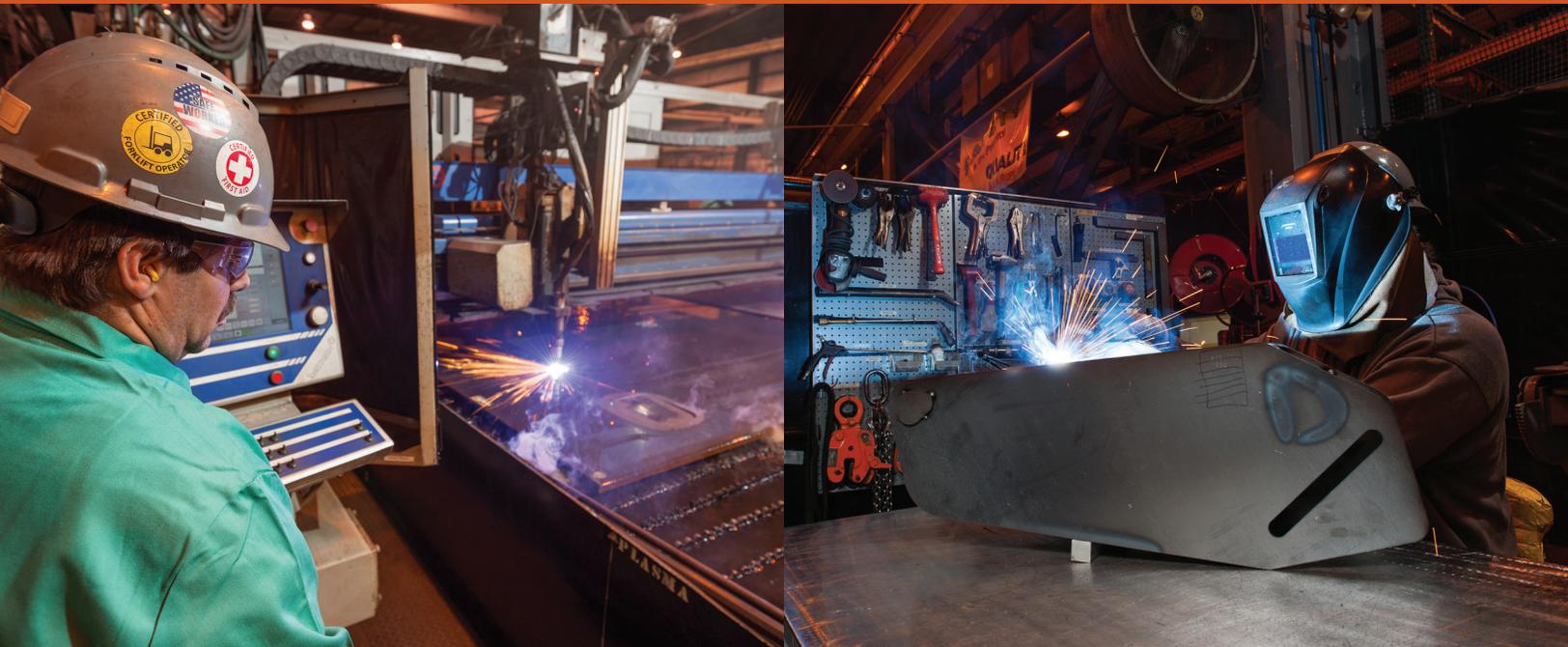
SAFETY BENEFITS EVERYONE

Safety is paramount at Miller Fabrication Solutions. Maintaining a safe and healthful work environment isn't just an idea; it's our top priority. Eliminating or controlling both known and potential safety and health hazards is a responsibility shared by all management, supervisors, shop floor and administrative personnel, each and every day.

This approach involves the planning and execution of a comprehensive Safety and Health System that includes, but is not limited to, the following components:

- Initial and ongoing employee training
- Routine department and self-inspections
- Frequent safety communications and audits
- Departmental employee first responders
- Hazard/pattern analyses
- Administrative/work practice/engineering controls
- Mandated usage of personal protective equipment
- Occupational screening services and exposure monitoring

A safe environment is a productive environment. And only a productive environment can deliver the quality level you should expect from Miller Fabrication Solutions.





Sandy Lick Facility

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Maplevale Facility

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Homer City Facility

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