

# Manufacturing Capabilities

## GUIDE



**KINETIC**  
— TECHNOLOGIES —

Kinetic Technologies, LLC  
500 Norwood Drive, Algona, IA 50511

[kinetictechllc.com](http://kinetictechllc.com)

## At Kinetic Technologies, our manufacturing capabilities are built to support projects from concept through production, delivering precision, consistency, and quality at every stage.

With a strong foundation in engineering and automation, we combine advanced equipment, skilled tradespeople, and disciplined processes to produce high-quality components and assemblies.

From laser cutting and forming to precision machining, welding, and fabrication, our in-house capabilities allow us to maintain control over quality, reduce lead times, and respond quickly to changing project needs. Whether supporting prototypes, small production runs, or ongoing manufacturing programs, we are a reliable partner focused on delivering results you can trust.

**As an ISO 9001:2015 certified organization**, we are committed to documented processes, continuous improvement, and consistent quality. Our quality management system ensures traceability, inspection, and revision control throughout the manufacturing process, reinforcing our focus on reliability, repeatability, and customer satisfaction on every project.

## LASER CUTTING

Our 6-kW fiber laser cutting technology delivers precise, repeatable cuts with exceptionally tight tolerances across a wide range of materials. Our CNC laser capabilities include:

- » Mild steel up to 5/8 in.
- » Stainless steel up to 3/4 in.
- » Aluminum up to 1/2 in.

We accept a wide variety of industry-standard drawing file formats to streamline production. If a formal drawing doesn't exist, our engineering team can create production-ready CAD models—even starting from a concept sketch.

**VALUE:** High-precision cutting, flexible file support, and engineering expertise accelerate your path from concept to finished part.



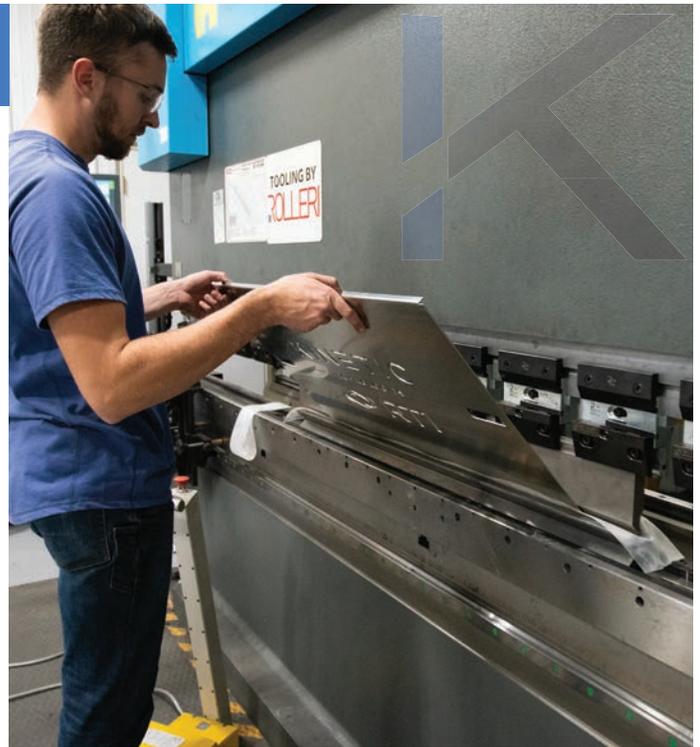
# METAL FORMING

Our 220-ton, 12-foot CNC press brake and extensive tooling selection allow us to handle metal forming projects ranging from small, complex components to large structural parts. Our press brake delivers:

- » Stretch length tolerances of  $\pm 0.020$  in.
- » Bend accuracy within  $\pm 1^\circ$

An intuitive graphical interface enables rapid changeovers, making small production runs and quick-turn jobs a core strength. When paired with our laser cutting capabilities, we produce precise, high-quality 3D bent parts with excellent fit and consistency.

**VALUE:** Accurate, repeatable forming with fast changeovers—ideal for prototypes, low-volume production, and complex formed components.



# CNC MILLING

High-precision machining starts with high-precision equipment. Our Haas VF-4 SS CNC mill machines a wide range of materials—from UHMW plastics to stainless steel and everything in between—with accuracy and repeatability.

By leveraging advanced CAM software, we rapidly generate optimized toolpaths directly from your CAD models, allowing us to move quickly from design to production and get parts in motion without delay.

**VALUE:** Fast, accurate CNC milling with broad material capability—ideal for prototypes, custom parts, and low- to mid-volume production.



From early-stage prototypes to production runs, our experienced machinists leverage advanced tooling and proven processes to deliver efficient, accurate results across a variety of materials.

# CNC LATHE TURNING

Our CNC lathe capabilities are powered by the Haas TL-2 CNC Toolroom Lathe, a precision machine designed for producing intricate, high-quality turned components with excellent repeatability.

**VALUE:** Precise, reliable turning for complex cylindrical parts, supported by expert operators and flexible production capacity.

# WELDING & FABRICATION

Our highly skilled builders deliver exceptional results across both manual and robotic welding processes. Supported by weld engineers on staff and a range of advanced welding equipment and technologies, we ensure strong, consistent welds and clean, professional bead quality.

From custom fabrications to repeatable production work, our team has the expertise and capacity to support your project requirements, including robotic welding operations for improved consistency and efficiency.



**VALUE:** High-quality welds, repeatable fabrication, and the flexibility to support both custom and production applications.

**Kinetic's manufacturing capabilities are designed to deliver precision, reliability, and flexibility across every phase of production.**

By combining advanced equipment, skilled craftsmen, and disciplined, ISO 9001:2015–certified processes, we provide consistent results you can depend on—whether for prototypes, low-volume builds, or ongoing production programs.

With fully integrated in-house capabilities and a foundation in engineering and automation, Kinetic reduces complexity, shortens lead times, and ensures quality at every step. We don't just manufacture parts—we partner with our customers to help bring ideas to life and keep production moving forward.



**KINETIC**  
— TECHNOLOGIES —

Kinetic Technologies, LLC  
500 Norwood Drive, Algona, IA 50511

[kinetictechllc.com](http://kinetictechllc.com)