

Wisconsin Stamping & Manufacturing Introduces Advanced Wire Forming for Complex Assemblies

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Wisconsin Stamping & Manufacturing, a custom metal fabrication company based in Germantown, Wisconsin, has detailed an expanded approach to wire forming that combines robotic CNC forming cells with a broad range of secondary operations to produce complex, multi-piece assemblies. The company outlined the capability as part of an effort to inform manufacturers and product designers about the production methods available for custom wire-formed components.

The company produces both two-dimensional and three-dimensional wire forms, ranging from straightforward loops and bends to sophisticated multi-piece assemblies. According to the company, its forming equipment processes wire from 0.091 inches to 1.0 inch in diameter using a mix of hydraulic, pneumatic, manual, and four-slide machines. The use of robotic CNC forming cells allows the company to maintain repeatability across production runs while accommodating designs that require tight tolerances and consistent geometry.

Wire forming, a metalworking process in which wire stock is bent, coiled, and shaped into finished components, is used across a range of industrial and consumer products. Wisconsin Stamping & Manufacturing noted that its wire-formed components commonly serve applications such as guards for fans or lights, rods, handles, levers, grills, grates, and linkage systems. These parts appear in equipment and assemblies across sectors that rely on durable formed-metal components.

Material selection is a central part of the company's wire forming work. The company processes low and tempered carbon steel, pre-galvanized and stainless steel, music wire, aluminum, copper, and specialty alloys. This range allows the company to match material properties to the mechanical and environmental demands of a given application, whether a component requires corrosion resistance, spring characteristics, electrical conductivity, or specific strength requirements.

Beyond forming, the company integrates a set of secondary operations that allow wire-formed parts to move from individual components to finished assemblies. These operations include automated resistance welding, robotic MIG welding, and manual MIG, TIG, and laser welding. The company also performs drilled holes,

welded collars, and machined or rolled threads, and it integrates wire forms with stamped, machined, or hardware components to complete assemblies within a single facility.

"Wire forming is rarely just about the bend itself," said Daniel Krause, Director of Operations at Wisconsin Stamping & Manufacturing. "What matters to most of our customers is whether the formed part can be welded, threaded, and assembled into something that performs reliably in the field. Bringing forming and secondary operations under one roof lets us control quality from the raw wire all the way through the finished assembly."

The company positioned its combination of forming and finishing as a way to reduce the number of suppliers a customer must coordinate for a single part. By handling forming, welding, threading, and assembly internally, the company aims to shorten lead times and maintain accountability for tolerances across each stage of production. This approach also supports prototyping and design refinement, as adjustments to a wire form can be evaluated alongside its downstream welding and assembly requirements.

Krause added that the breadth of equipment supports a wide span of order sizes and complexity. "We see everything from simple formed rods to linkage systems with multiple welded and machined features," he said. "Having hydraulic, pneumatic, manual, and four-slide options means the process can be matched to the part, rather than forcing every job through the same machine."

Wisconsin Stamping & Manufacturing operates from its facility in Germantown, Wisconsin, where it provides custom metal fabrication services that include stamping, machining, and wire forming. The company works with manufacturers that require formed and assembled metal components produced to defined specifications, and it supports both established production programs and new product development.

The company indicated that outlining its wire forming methods is intended to give engineers and purchasing teams a clearer understanding of the processes, materials, and finishing operations involved in producing custom formed-wire components. As demand continues for durable metal parts across industrial and commercial markets, the company noted that its integrated forming and secondary operations are structured to meet varied component requirements.

For more information about wire forming and other custom metal fabrication services, visit www.wisconsinstamping.com.

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Wisconsin Stamping and Manufacturing

Since 1958, our roots have been in metal stamping. But today it's about metal fabrication of virtually every kind, in every metal type and stock, and through numerous processes.

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