



Hogge Precision Showcases Swiss Machining Capabilities for Multi-Industry Applications

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Hogge Precision Parts Co., Inc., a precision contract manufacturer specializing in CNC turning, milling, Swiss machining, and multi-spindle screw machining for industries with demanding quality requirements based in Hartsville, South Carolina, has outlined the scope of its swiss machining capabilities, detailing the equipment, tolerances, and materials that support production of small, complex components for customers across a range of industries. The company, which has supplied precision machined parts and assemblies for more than 35 years, produces these components at its ISO 9001:2015 registered facility.

Swiss machining is a precision manufacturing technique used to produce smaller parts with high length-to-diameter ratios, moving from simple to complex geometries in a single operation. The process feeds bar stock through a guide bushing that supports the material as it enters the tooling area. Because only the actively machined section of the bar stock advances, the method reduces extraneous motion and vibration, contributing to the stability and accuracy that distinguish swiss screw machining from conventional turning approaches.

Hogge Precision's swiss machining equipment operates with up to eight axes and up to 32 tools, allowing

multiple operations to be completed within a single cycle. The machines accommodate a maximum part length of eight inches per chucking and a maximum diameter of 1.25 inches, and they hold tolerances as close as .0005 of an inch. The company's swiss turning machining lines are also configured for lights-out manufacturing, running bar stock up to 1-1/4 inches in diameter and 12 feet long without continuous operator attention.

The company machines a broad set of materials through its swiss machining center, including aluminum, titanium, stainless steel, nickel alloys, carbon steel, bronze, brass, and copper, along with plastics such as polycarbonate and Teflon. That material range allows the company to match component requirements across sectors with differing performance and regulatory demands.

"Swiss machining lets us hold extremely tight tolerances on small, intricate parts that would be difficult to produce consistently by other methods," said Danny Hogge Jr, President of Hogge Precision Parts Co., Inc. "The guide bushing support and single-operation workflow are what make that repeatability possible, and our team has spent years refining those processes for the specific demands each customer brings to us."

The controlled feed of material and the support provided by the guide bushing are central to the precision associated with CNC swiss screw machining. By limiting deflection during cutting, the process supports form turning, parting and cutting, internal and external threading, knurling, and related operations on parts with demanding length-to-diameter ratios. These custom processes are configured to match the specifications of individual manufacturing programs.

Hogge Precision provides swiss machining services for applications that include aerospace and defense, agriculture, construction, electrical power transmission and switching, electronics, energy, fluid and air controls, heavy trucking, medical, motion control, plumbing, and valve components. The company maintains certifications intended to meet standards across these sectors, and it produces components to tight tolerances for use in a variety of assemblies.

The single-pass nature of swiss machining also carries cost implications for customers. Producing intricate, smaller parts in one operation, combined with lights-out running, reduces handling and helps manage per-part manufacturing costs. Those efficiencies are among the factors the company cites when discussing swiss machining alongside its other capabilities, which include CNC turning, CNC milling, and multi-spindle screw machining.

Quality management underpins the company's swiss machining work. Hogge Precision operates a registered ISO 9001:2015 quality management system, and its measuring capabilities are directed at verifying that small and complex precision parts meet the required specifications. The company describes this quality framework as central to its ability to serve customers whose components must satisfy exacting industry requirements.

"Our goal is to be a dependable source for the precision parts our customers cannot afford to get wrong," Hogge added. "Whether a component is destined for a medical device or a power transmission assembly, the same discipline around measurement, materials, and process control applies."

Hogge Precision continues to serve customers around the world from its Hartsville facility, combining its swiss machining capacity with a broader set of precision manufacturing services. Additional information about the company's swiss machining services is available at <https://www.hoggeprecision.com/capabilities/swiss-machining/>.

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Hogge Precision Parts Co, Inc.

Hogge Precision Parts Co., Inc. is a premier contract manufacturer delivering high-quality products at competitive prices using advanced CNC and screw machining equipment.

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