Hogge Precision Showcases Aluminum Machined Parts Produced Under AS9100D Quality Standards

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HARTSVILLE, SC - November 23, 2026 -
Hogge Precision Parts Co., Inc., a Hartsville, SC-based contract manufacturer specializing in Swiss screw machining, precision CNC turning, and milling, is highlighting its ability to produce aluminum machined parts under a quality management system registered to AS9100D and ISO 9001:2015 standards. The company makes standard and custom aluminum components for customers in aerospace, defense, medical, automotive, energy, power distribution, and other industrial sectors.

Aluminum remains one of the most widely used materials in precision manufacturing because it machines easily, resists corrosion, and offers a high strength-to-weight ratio. These properties make aluminum machined parts a common choice where cutting weight matters but structural performance cannot suffer, including transportation and aerospace components. The material's thermal and electrical conductivity also suits it to heat sinks, electrical components, and power transmission hardware.

Hogge Precision machines a range of aluminum grades, including 2011, 2024, 6061, 6262, and 7075 alloys, as well as the lead-free alloys 2033 and 6026. Each grade offers a different balance of hardness, fatigue strength, machinability, and cost. This range allows engineers to match the material to the mechanical

demands of a specific component.

"Aluminum gives engineers a lot of flexibility, but that flexibility only pays off when the alloy, the process, and the quality controls are all aligned," said Danny Hogge Jr., President of Hogge Precision. "Our customers in aerospace, medical, and power distribution need parts that measure the same on the ten-thousandth piece as they did on the first article. Building that consistency into every aluminum job is what our team focuses on every day."

The company produces aluminum machined parts through several processes, including CNC milling, CNC turning, Swiss machining, and multi-spindle screw machining. Multi-axis milling equipment handles complex geometries such as manifolds. Swiss machining is used for small, intricate turned components that require tight tolerances and repeatable surface finishes, with volumes ranging from prototypes through full-scale production.

Recent aluminum projects at Hogge Precision include CNC machining an aluminum safety coupling for the valve industry and horizontally milling an aluminum manifold for an air compressor application. The company's broader aluminum work spans castings, die castings, forgings, specialty valves, and transmission and switching components.

The AS9100D registration held by the company's facility reflects quality management requirements developed for the aviation, space, and defense industries, building on the ISO 9001:2015 framework. For aluminum components headed to aerospace and defense programs, these standards govern process control, traceability, risk management, and documentation.

"Quality registration is not a certificate on the wall for us. It shapes how every order moves through the shop," Hogge said. "When a customer sends us an aluminum part for an aerospace or medical program, they are trusting that our inspection, documentation, and traceability will hold up to scrutiny, and we take that responsibility seriously."

In addition to machining, Hogge Precision offers secondary and finishing services so customers can source completed aluminum components from a single supplier. These services include anodizing, electroplating, dry film lubricant, painting, and heat treating. Anodizing is widely specified for aluminum parts because it improves corrosion resistance and surface hardness while allowing color coding for identification.

The company also provides supply chain support, including Kanban inventory management and custom barcode labeling. These programs help manufacturers keep components steadily available, reduce on-hand inventory, and simplify receiving at their own facilities.

Interest in reshoring has led many manufacturers to reevaluate overseas sourcing of machined components, placing more weight on lead times, communication, and supply chain resilience. Domestic suppliers that combine machining, finishing, and inventory management under one roof can support those efforts with a single point of accountability.

For more than 35 years, Hogge Precision Parts Co., Inc. has supplied precision machined parts and assemblies to customers around the world. From its facility in Hartsville, South Carolina, the company provides CNC milling, CNC turning, Swiss machining, and screw machining services in aluminum, brass, copper, stainless steel, and other materials.

For more information about aluminum machined parts from Hogge Precision, visit https://www.hoggeprecision.com/aluminum-machined-components/.

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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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