Hogge Precision Delivers Precision Swiss Screw Machining Services

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Hogge Precision, a precision machining company specializing in tight-tolerance components, provides Swiss screw machining services for industries requiring complex, high-accuracy turned parts. The company operates advanced Swiss-type CNC lathes capable of producing intricate geometries and maintaining dimensional tolerances that meet the demands of aerospace, medical, defense, and industrial applications.

Swiss screw machining differs from conventional CNC turning in that it uses a sliding headstock and a guide bushing, which support the workpiece close to the cutting tool. This design minimizes deflection and enables the production of long, slender parts with exceptional concentricity and surface finish. Hogge Precision utilizes this technology to manufacture components from a wide range of materials, including stainless steel, titanium, brass, aluminum, and engineered plastics.

The process is particularly well-suited for parts that require multiple operations completed in a single setup. Swiss-type machines can perform turning, milling, drilling, tapping, and threading simultaneously, reducing cycle times and eliminating the need for secondary operations. This single-setup capability ensures consistent quality across production runs, whether for prototype quantities or high-volume orders.

"Swiss screw machining is central to what we do at Hogge Precision," said Danny Hogge Jr, President of Hogge Precision. "Our equipment and our team allow us to hold tolerances that many shops simply cannot achieve, and we do it consistently across every part in a run."

Hogge Precision?s Swiss screw machining services extend across a broad spectrum of part sizes and complexities. The company routinely produces components with outside diameters ranging from under one millimeter to over thirty-two millimeters, accommodating the diverse requirements of its customer base. Parts produced through Swiss screw machining at the facility include shafts, pins, connectors, fittings, bushings, and custom fasteners.

Material selection plays a critical role in the performance of precision-machined components. The company maintains experience working with difficult-to-machine alloys, including titanium, stainless steel, and various grades of tool steel. Understanding the cutting characteristics of each material enables the team to optimize feeds and speeds and tooling to achieve the required finish and dimensional accuracy without compromising production efficiency.

Quality assurance is integrated throughout the manufacturing process rather than applied solely as a final inspection step. Hogge Precision employs in-process gauging, statistical process control, and comprehensive first-article inspection protocols. This approach to quality management ensures that deviations are identified and corrected before they can affect finished parts, reducing scrap rates and maintaining delivery schedules.

"Precision is not just about the machines," said Hogge. "It comes down to the experience of our machinists, the rigor of our inspection processes, and our commitment to understanding what each customer needs from every part we produce."

The company serves original equipment manufacturers and contract manufacturers across multiple sectors. In the medical device industry, Swiss screw-machined components must meet stringent regulatory standards for biocompatibility and dimensional accuracy. Aerospace applications demand traceability and adherence to material certifications. Hogge Precision maintains the documentation and process controls necessary to support these requirements.

Swiss screw machining also offers advantages in terms of material utilization. The guide bushing design allows bar stock to be fed continuously through the machine, minimizing remnant waste. For customers working with expensive alloys, this efficiency translates directly into cost savings without sacrificing part quality or geometric complexity.

Short lead times remain a priority for the company, which maintains its equipment and tooling inventory to

respond quickly to customer needs. The ability to transition between jobs efficiently allows Hogge Precision to accommodate urgent orders and shifting production schedules, a capability that manufacturers increasingly value as supply chains continue to demand flexibility.

Hogge Precision continues to invest in the training and development of its machining team, recognizing that skilled operators are essential to realizing the full potential of Swiss-type equipment. Experienced programmers and setup technicians work closely with customers during the quoting and engineering review stages to identify opportunities for design optimization and cost reduction before production begins.

For more information about Swiss screw machining capabilities and to discuss specific project requirements, visit the Hogge Precision website.

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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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