McCormick Industries Offers Precision Aerospace Machining Services for Critical Flight Components

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McCormick Industries, an Appleton,WI-based ISO 9001:2015 certified precision manufacturer, has announced the availability of its aerospace machining services to original equipment manufacturers and prime contractors operating in the aviation, defense, and unmanned aerial vehicle sectors. The company provides CNC turning, CNC milling, and Swiss precision machining capabilities engineered to produce flight-critical components within tolerances as tight as ±0.0001 inches.

The aerospace industry imposes demanding standards on precision-machined parts, as components used in aircraft, spacecraft, and UAV systems must perform reliably under extreme thermal and mechanical stress. McCormick Industries has structured its manufacturing operations around meeting those requirements, maintaining a quality management system certified to ISO 9001:2015 standards and applying those standards across every production run.

Swiss precision CNC machining is among the core aerospace machining services offered by McCormick Industries, enabling the production of small, complex components with an exceptional degree of dimensional accuracy. The company's Swiss-turning equipment accommodates part diameters up to 1.25 inches with

roundness tolerances of ±0.00008 inches. Lights-out operation capabilities allow the facility to support both high- and low-volume production runs while maintaining reduced cycle times.

CNC turning services at McCormick Industries are capable of producing aerospace components up to 18.00 inches in length by 1.625 inches in diameter, with equipment featuring up to two high-speed spindles and live tooling for detailed feature work. Diameter and length tolerances of ±0.0001 inches are achieved through the integration of current CNC machines, advanced control systems, and intelligent tooling technology.

The company's CNC milling operations are performed on vertical machining centers with spindle speeds of up to 12,000 RPM and rapid traverse speeds reaching 50 meters per minute. These machining centers support milling, drilling, and tapping processes with positioning accuracy of ±0.0003 inches and repeatability of ±0.0002 inches, accommodating both high- and low-volume aerospace production requirements.

Material selection is a critical factor in aerospace component manufacturing, and McCormick Industries works with a broad range of metals and alloys suited to the performance demands of flight applications. Aluminum alloys, including the 2024 and 7075 series, are widely used for their favorable strength-to-weight ratio, while titanium alloys are selected for high-temperature resistance and structural integrity in advanced aircraft systems. The company also machines heat-resistant superalloys and exotic materials used in jet engine and turbine component manufacturing.

"The aerospace and defense sectors require precision-machined components that meet rigorous specifications with no tolerance for error," said Gary Hermsen, CEO of McCormick Industries. "Our CNC machining capabilities, combined with our ISO 9001:2015 certification, position us to serve OEMs and prime contractors that need reliable, repeatable parts produced to exact aerospace standards."

McCormick Industries has a documented record of completing aerospace and military projects, including the production of custom Swiss-turned trunnions machined on a Cincom K-16E machining center for defense contractors. The company's machinists bring decades of experience to projects involving close-tolerance components for aircraft, satellites, and specialized aviation equipment.

The company's lights-out manufacturing capabilities allow precision machining operations to continue without interruption during off-hours, an operational advantage that supports compressed delivery timelines without compromising dimensional accuracy or surface finish quality. This approach enables McCormick Industries to fulfill orders across a range of production volumes while maintaining consistent part quality throughout each run.

"We understand that aerospace customers cannot accept variability in their machined components," said Hermsen. "Every part that leaves our facility is produced and inspected in accordance with our quality

management system, ensuring it meets the specifications required for flight-critical applications."

McCormick Industries serves customers across the aerospace, military, medical, and industrial sectors, applying precision CNC machining processes to complex component geometries that demand accuracy and repeatability. The company's ISO 9001:2015 certification and multi-process capabilities make it a resource for aerospace manufacturers requiring dependable, close-tolerance production at any volume.

More information about McCormick Industries and its aerospace machining services is available at mccormickind.com.

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McCormick Industries

McCormick Industries is a precision CNC machining facility specializing in swiss-type machining of small, complex parts for the industrial, aerospace, defense, and medical sectors since 1996.

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