



McCormick Industries Emphasizes Aerospace CNC Machining Precision for Aircraft and Spacecraft

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McCormick Industries, a precision CNC machining company established in 1996, has outlined the scope of its aerospace CNC machining capabilities, detailing the equipment, tolerances, and quality standards it applies to flight-critical components for aircraft, spacecraft, satellites, and unmanned aerial vehicles. The company confirmed that its aerospace work is performed in accordance with ISO 9001:2015 standards, with tolerances as tight as ± 0.0001 inch.

The announcement reflects the growing demand for close-tolerance machined parts across both civilian and military aviation programs. Aerospace components operate in environments that leave little margin for error, requiring manufacturers to hold exacting specifications across every production run. McCormick Industries produces these no-fail parts using a combination of CNC turning, CNC milling, and Swiss precision turning, processes that allow the company to serve both high-volume and low-volume aerospace programs.

Gary Hermesen, Chief Executive Officer of McCormick Industries, said the company's focus on aerospace reflects decades of accumulated engineering experience. "Aerospace work demands a level of consistency that leaves no room for compromise, and that standard shapes how we run every job on the floor," Hermesen

said. "Our machinists treat each flight-critical part as though a mission depends on it, because in this industry it often does. That mindset, backed by our equipment and our quality system, is what allows us to serve OEMs and prime contractors with confidence."

The company's Swiss precision machining services are used to produce small, detailed aerospace parts with diameters up to 1.25 inches. According to McCormick Industries, its Swiss-turning equipment holds roundness within ± 0.00008 inch and both diameter and length within ± 0.0001 inch. Lights-out operation and reduced cycle times allow the company to manage both high- and low-production volumes with speed and efficiency, an advantage for programs that require rapid turnaround on complex geometries.

McCormick Industries' CNC turning services for the aerospace sector use up to two high-speed spindles simultaneously, along with live tooling capability for detailed features. The equipment produces components up to 18.00 inches in length and 1.625 inches in diameter, holding diameter and length within ± 0.0001 inch and roundness within ± 0.00008 inch. The company noted that its control systems and intelligent tooling support precise and repeatable parts for both large- and small-scale production runs.

For milling applications, the company operates vertical machining centers designed to perform milling, drilling, and tapping. These machines reach spindle speeds of up to 12,000 RPM, rigid tapping speeds up to 8,000 RPM, and rapid traverse speeds of up to 50 meters per minute. Positioning accuracy is held within ± 0.0003 inch and repeatability within ± 0.0002 inch, supporting both high- and low-volume aerospace runs.

Material selection is a central consideration in aerospace CNC machining, where components must be both lightweight and durable. McCormick Industries machines a range of materials, including aluminum, titanium, stainless steel, brass, bronze, copper, tool steel, plastics, and exotic alloys. Aluminum alloys such as 2024, 6061, and 7075 are widely used for structural components, hydraulic systems, aircraft wings, and fuselage sections. Titanium alloys, valued for their strength-to-weight ratio and high-temperature performance, now account for a significant share of advanced aircraft structures. Heat-resistant superalloys composed of iron, nickel, and cobalt remain essential for gas turbine blades and other engine components exposed to extreme temperatures.

The company's aerospace machining supports flight-critical components including engine hardware, actuation parts, landing-gear elements, sensor housings, and structural assemblies. Such parts require strict quality control, full traceability, and consistent repeatability, all of which are governed by the company's quality management system. McCormick Industries maintains its ISO 9001:2015 certification and trains its machinists to uphold those standards throughout every production run.

The company also cited its experience with custom aerospace and defense projects, including recent work producing Swiss-turned trunnions on a Cincom K-16E machining center for a military application. That

experience spans design and engineering support in addition to production machining, positioning the company to work with contractors that require components meeting rigorous industry specifications.

McCormick Industries serves aerospace customers ranging from OEMs to prime contractors across North America, supporting programs from military aircraft to general aviation and UAV platforms. The company continues to invest in precision technology and quality systems to meet the evolving demands of the aerospace industry.

For more information about McCormick Industries and its aerospace CNC machining services, visit <https://mccormickind.com/precision-cnc-machining-services/aerospace-machining-services/>.

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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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