

MCM Composites Delivers Precision Service for Aerospace Compression Molding Needs

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MCM Composites, a provider of advanced composite manufacturing solutions, offers precision-engineered components designed to meet the rigorous demands of the aerospace industry. With capabilities spanning thermoset and thermoplastic composite fabrication, the company serves aerospace clients requiring tight tolerances, repeatable quality, and materials that perform under extreme conditions.

Aerospace applications place extraordinary demands on component manufacturers. Parts must withstand wide temperature fluctuations, resist chemical exposure, and maintain structural integrity under sustained mechanical stress. MCM Composites addresses these challenges through a combination of advanced molding techniques, proprietary tooling processes, and strict quality control protocols that align with aerospace sector expectations.

MCM Composites produces composite parts used in a range of aerospace applications, including structural housings, radomes, interior panels, ducting systems, and electrical insulation components. Each part is manufactured using processes selected for the specific performance characteristics the application requires, whether that involves compression molding, resin transfer molding, or hand layup techniques refined over years of production experience.

"Aerospace clients come to us because they need a manufacturing partner that understands the difference between a part that meets print and a part that performs in the field," said Michael Fredrich, CEO of MCM Composites. "Our team brings deep knowledge of how composite materials behave under aerospace service conditions, and that experience informs every step of our process from tooling design through final inspection."

Material selection plays a central role in aerospace composite manufacturing. MCM Composites works with a broad portfolio of resin systems and reinforcement materials, including fiberglass, carbon fiber, and

aramid-based composites. The company's engineering team collaborates directly with clients to identify the material combinations best suited to each application's thermal, mechanical, and weight requirements.

Dimensional accuracy represents another critical factor in aerospace component production. MCM Composites maintains process controls designed to hold tolerances that satisfy aerospace program requirements. The company utilizes coordinate measuring equipment and standardized inspection procedures to verify that finished parts conform to customer specifications before shipment.

MCM Composites continues to invest in the manufacturing infrastructure and workforce expertise necessary to support this demanding market segment. Skilled technicians with composite fabrication backgrounds operate production equipment calibrated for the consistency aerospace programs require.

"What sets composite materials apart in aerospace is the ability to engineer specific properties into a part that metals simply cannot match," Fredrich said. "Lower weight, corrosion resistance, radar transparency, electrical insulation ? these are not optional features in many aerospace systems. They are baseline requirements, and composites deliver them."

The aerospace composites sector continues to represent a significant portion of the broader advanced materials market. Industry reliance on fiber-reinforced polymer components has grown steadily as airframe designers, defense contractors, and satellite manufacturers seek materials that reduce vehicle weight without compromising performance. Composite structures now appear in both primary and secondary aerospace assemblies across commercial and military platforms.

MCM Composites supports both prototype development and production-volume manufacturing for aerospace customers. The company's ability to transition from initial engineering samples through rate production provides continuity that reduces program risk for clients managing complex supply chains. This prototype-to-production capability also shortens the timeline between design validation and full-scale delivery.

Quality documentation and traceability remain essential in aerospace supply chains. MCM Composites maintains lot tracking and material certification records that allow customers to trace any delivered component back to its raw material inputs, cure cycle parameters, and inspection results. This level of documentation supports the compliance requirements that govern aerospace procurement.

The company's manufacturing facility houses equipment configured for both low-volume, high-complexity parts and higher-volume production runs. This operational flexibility allows MCM Composites to serve aerospace clients whose order profiles range from small-lot specialty components to recurring production contracts requiring consistent monthly output.

Fredrich noted that the company's long-standing focus on composite materials gives the team an advantage when solving fabrication challenges specific to aerospace geometries. Complex curvatures, variable wall thicknesses, and embedded metal inserts are among the features the company routinely incorporates into aerospace composite parts.

For more information about MCM Composites aerospace compression molding services and manufacturing capabilities, visit the company website.

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For more information about MCM Composites, contact the company here: MCM Composites Michael Fredrich 920-684-7800 info@mcmusa.net 1315 S. 41st St Manitowoc, WI 54220

MCM Composites

MCM Composites is a trusted leader in custom molding, providing high-quality solutions to a diverse clientele across the globe

Website: <https://www.mcmusa.net/>

Email: info@mcmusa.net

Phone: 920-684-7800
