

More Automation. Less Costs. Composite Manufacturing By RAMPF.

One-stop engineered solutions for technologically advanced composites in the aerospace and defense industries at Aeromart Toulouse, France

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Burlington, Ontario, Canada, November 25, 2024. RAMPF Composite Solutions is showcasing cutting-edge, turnkey engineered solutions for advanced composite manufacturing in the aerospace and defense industries at Aeromart Toulouse from December 3 to 5!

Key Facts

1. RAMPF Composite Solutions specializes in the design and manufacture of custom, complex composites for the aerospace and defense industries, with a focus on low to medium-volume production.
2. The company guarantees fast turnarounds, material qualification, and automated processes, all supported by integrated quality assurance.
3. The state-of-the-art, 74,000 square-foot facility in Burlington is designed to optimize every stage of the composite manufacturing process.



RAMPF Composite Solutions designs and manufactures some of the world's most advanced lightweight composite products. The full potential of composite technology is leveraged for both low-volume production, early product development, and series production through the combination of:

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- Low-cost tooling and fixtures with outstanding mechanical properties
- High-performance structural resins for effective and fast infusion
- Structural optimization via Tailored Fiber Placement (TFP) technology for maximum speed and accuracy
- Low-cost component production using Vacuum Assisted Resin Transfer Molding (VARTM)

Up to 30 percent cost savings

The company's innovative, quick-turn solutions include material qualification, integrated quality assurance, and automated processes for manufacturing components and subsystems. Prototypes are manufactured within weeks of the design stage and with up to 30 percent cost savings over more traditional prepreg solutions.

The benefits are maximized for components with high structural and geometric complexity (e.g., undercuts, compound curvatures, pockets) and functional complexity (e.g., EMI shielding, static discharge, impact resistance, flammability compliance).

State-of-the infrastructure



RAMPF Composite Solutions' high-tech, 74,000-square-foot facility in Burlington, Ontario, is designed to optimize every stage of the composite manufacturing process. Facility features include:

- Temperature-controlled lamination room
- AI-optimized automated digital ply cutting system
- Automated metering, mixing, and dispensing equipment for a variety of resin systems
- Three large curing ovens
- Eight-head TFP machine
- Dual 5-axis CNC machines

Press Release



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- Dual paint booths and mixing kitchen
- Metallic plating capabilities
- Centralized vacuum pump system
- Robotic sanding equipment
- Ultrasonic, non-destructive testing equipment
- Industrial 3D printer capable of thermoplastic printing

Visit RAMPF Composite Solutions at Aeromart Toulouse from December 3 to 5!

Press Release



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RAMPF Composite Solutions, Inc. based in Burlington, Ontario, Canada, is a leading expert in the manufacture of carbon fiber and fiberglass composites parts for the aerospace and medical industries.

Core competencies include VARTM, metal plating, and value-added assembly.

The company is completely vertically integrated, offering project management, product development, tool design and manufacturing, as well as dedicated new production introduction.

Extensive R&D is the driver of innovation, and long-term relationships focused on close cooperation fuel the optimization of existing processes and the development of new products.

RAMPF Composites Solutions is a company of the international **RAMPF Group** based in Grafenberg, Germany.

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