

Aerospace Manufacturing: Cut Costs, Boost Efficiency, and Go Green with RAMPF Resin Infusion Technology

Aeromart Montreal 2025: Groundbreaking prepreg alternative delivers significant cost savings, improved production efficiency, and a reduced environmental footprint

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Burlington, Ontario, Canada, March 12, 2025. RAMPF Composite Solutions is revolutionizing aerospace manufacturing with its advanced resin infusion technology, delivering significant cost savings, improved production efficiency, and a reduced environmental footprint. Attendees at Aeromart Montreal can explore this cutting-edge solution first-hand from March 25 to 27 – Booth 1019.

Key Facts

1. RAMPF Composite Solutions' resin infusion technology reduces production costs by up to 30 percent compared to traditional prepreg methods.
2. The groundbreaking process eliminates the need for refrigeration and autoclaves, cutting energy consumption and lowering the carbon footprint.
3. RAMPF's fully integrated, in-house manufacturing process ensures faster lead times and further cost reductions.

Smart alternative to prepreg

Prepreg-based manufacturing processes require expensive materials, continuous refrigeration, and energy-intensive autoclaves. This drives up both costs and carbon emissions. RAMPF Composite Solutions' resin infusion technology eliminates these inefficiencies, providing:

- 30 percent cost savings – High-quality aerospace components produced at a fraction of traditional prepreg costs.
- Sustainable manufacturing – No refrigeration or autoclaves, drastically reducing energy consumption and carbon footprint.
- Enhanced production efficiency – Faster lead times and lower costs through integrated manufacturing processes.

Aerospace-grade performance, lower costs

RAMPF Composite Solutions has engineered a fully in-house resin infusion process that meets the stringent standards of the aerospace industry while enabling scalable, high-volume manufacturing. The technology is particularly beneficial for components with complex geometries and demanding performance requirements, offering an optimal balance of strength, weight, and cost-efficiency.

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Backed by a state-of-the-art 74,000 sq ft facility and the extensive material and engineering expertise of the international RAMPF Group, the company’s solutions provide a seamless transition for aerospace manufacturers looking to replace outdated prepreg methods with a more efficient and sustainable alternative.

Larry Fitzgerald, CEO of RAMPF Composite Solutions – “RAMPF is committed to supporting aerospace manufacturers achieve greater efficiency, lower costs, and a greener footprint. Our resin infusion technology is a game changer, eliminating the inefficiencies of prepreg while delivering the high performance our customers demand. We look forward to connecting with industry leaders at Aeromart Montreal to showcase how our solutions are shaping the future of aerospace manufacturing.”

Visit RAMPF Composite Solutions at Aeromart Montreal 2025 from March 25 to 27 – Booth 1019!

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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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