Press Release

RAMPF Composite Solutions Propels Advancement of Vertical Aviation Industry

One-stop solution for developing and manufacturing complex composite parts at Verticon in Dallas, TX – Booth 10841

Burlington, Ontario, Canada, March 6, 2025. RAMPF Composite Solutions is presenting its one-stop solution for the quick and cost-efficient development and manufacture of complex composite parts in the vertical aviation industry at Verticon in Dallas, TX, from March 11 to 13 – Booth 10841.

Key Facts

1. RAMPF Composite Solutions has developed a one-stop solution for the manufacture of complex composite parts that allows for prototype production within a few weeks of the design stage, achieving up to 30 percent cost savings.
2. By managing the entire production process in-house, operations are streamlined, lead times reduced, quality strictly controlled, and outsourcing delays eliminated.
3. Developed and manufactured parts for the vertical aviation industry include rotor blades, battery enclosures, fairings, cowlings, and more.

The vertical aviation industry is experiencing rapid advancements driven by enhanced performance, sustainability, and safety. A key challenge in manufacturing helicopters, drones, and electric vertical take-off

and landing (eVTOL) aircraft is achieving lightweight structures without compromising structural integrity and safety.

Composites, renowned for their high strength-to-weight ratio and design flexibility, are becoming the preferred material solution, with leading manufacturers increasingly adopting this advanced technology.

RAMPF Composite Solutions excels in designing and manufacturing advanced lightweight composite parts, having produced various components for the vertical aviation industry, such as rotor blades, battery enclosures, fairings, and cowlings. The company's experts leverage the full potential of composite technology across various production stages, including low-volume production, early product development, and series production.

This groundbreaking approach combines:

- Low-cost tooling and fixtures for outstanding mechanical properties, ensuring high-quality production at reduced costs.
- High-performance structural resins for effective and fast infusion, enhancing the efficiency of the manufacturing process.
- Tailored Fiber Placement (TFP) Technology for optimized structural components with maximum speed and accuracy.
- Vacuum Assisted Resin Transfer Molding (VARTM) for low-cost component production.

RAMPF's innovative, fast-turn solutions include material qualification, integrated quality assurance, and automated manufacturing of components and subsystems. Prototypes are produced within weeks of the design phase, achieving cost savings of up to 30 percent compared to traditional prepreg methods.

Larry Fitzgerald, CEO of RAMPF Composite Solutions – "By leveraging advanced composites and innovative engineering, we are making manufacturing faster and more cost-effective. Our high-performance tooling materials and fast-curing resin systems facilitate scalable production, efficiently adapting to diverse applications, sizes, and volumes. We look forward to connecting with top experts in the vertical aviation industry at this year's Verticon trade show. This event offers a fantastic opportunity to exchange ideas and shape the future of aviation together."

Visit RAMPF Composite Solutions and RAMPF Group, Inc. at Verticon in Dallas, TX, from March 11 to 13 – Booth 10841!

www.rampf-group.com

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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www.rampf-group.com/en-us/

RAMPF Group, Inc., based in Wixom, Michigan, USA, is a market-leading specialist for

> Mixing & dispensing systems for the reliable processing of polymers
> Two-component polymer systems based on polyurethane, epoxy, and silicone
> Modeling and mold engineering materials, in particular for the automotive, marine, and aviation industries
> Machine bases, machine frames, and other structural components made from mineral casting (polymer concrete)

RAMPF Group, Inc., is a company of the international RAMPF Group based in Grafenberg, Germany.