

# RAMPF – Reducing Production Cost & Lowering Component Weight

Composites experts utilize full potential of new eight-head Tailored Fiber Placement machine for the design of complex parts

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**Burlington, Canada, January 26, 2021. Reducing production cost while lowering component weight in complex composite parts is no longer mutually exclusive – thanks to RAMPF Composite Solutions.**



The company is renowned for first-class composite design and manufacturing solutions to various industries including aerospace, defense, transportation, medical, and green technology. With its new eight-head Tailored Fiber Placement (TFP) machine, RAMPF Composite Solutions' team of experienced aerospace and composites engineers now offers even better and faster solutions to the toughest technical challenges.

This is achieved through TFP's unparalleled freedom to selectively place and orient the carbon fiber and fiberglass filaments where strength or weight optimization is required. The structural performance of the composite is maximized while also providing for greatest possible weight savings, reduced carbon fiber usage, and lower cost.

### **From stainless steel to carbon fiber**

In a recent TFP success story, RAMPF Composite Solutions transformed a stainless steel part used in commercial aircraft to a part made almost entirely of carbon fiber, resulting in the part weighing four and a half times less without an increase in costs. In fact, the customer was able to realize additional operational cost savings because of the significant weight reduction.

Furthermore, only five layup pre-forms were produced compared to the 75 that would have been required using traditional carbon composite design approaches.

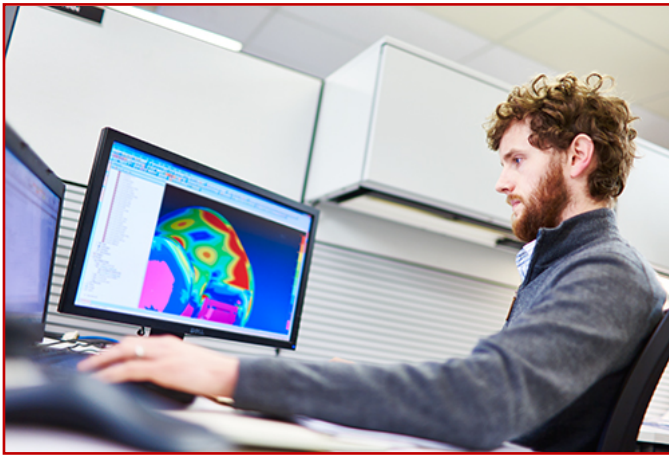
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Larry Fitzgerald, CEO of RAMPF Composite Solutions – “Reducing production cost while lowering component weight in complex composite parts has often proved to be a mutually exclusive challenge. Now, thanks to this exciting technology and the outstanding composites design skills of our team, the advantages of Tailored Fiber Placement can be used to design complex parts to be lightweight and cost competitive at the same time.”



RAMPF Composite Solutions’ team of experienced aerospace and composites engineers provide cutting-edge composite design and manufacturing solutions to various industries. The company is completely vertically integrated, offering project management, product development, tool design and manufacturing, as well as dedicated new production introduction.

TFP@RAMPF Composite Solutions: <https://www.youtube.com/watch?v=OHlnTUZXOps>



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**RAMPF Composite Solutions**, based in Burlington, Ontario, Canada, is a leading expert in the design, engineering, and manufacture of composites parts for the aerospace and medical industries. By providing highest levels of technology and innovation, the company enables its customers to differentiate themselves from their competition.

RAMPF Composite Solutions provides engineered solutions through innovations in advanced carbon fiber and fiberglass composites using cutting-edge technologies.

Core competencies include composite manufacturing to very tight tolerances utilizing the out-of-autoclave VARTM process, resin infusion, metal plating, and value-added assembly.

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

Extensive research and design development are the drivers 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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