

# Pioneering lightweight construction in theory and in practice

RAMPF Composites Symposium attended by 120 participants and 21 exhibitors

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**Grafenberg, November 16, 2017. High-caliber speakers and a spectacular in-house exhibition made sure the latest trends in lightweight construction using fiber composites were put well and truly center stage at the RAMPF Composites Symposium. Some 120 participants and 21 exhibitors took up the invitation extended by RAMPF Tooling Solutions and attended the event at the brand-new production facility in Grafenberg.**

Reducing weight while increasing mechanical strength – it may be very simplified, but it is a pretty accurate way of explaining the burgeoning popularity of fiber composites. Companies in a whole range of industries, but first and foremost in the automotive, aerospace, boat and shipbuilding, medical technology, mechanical engineering, and sports and leisure sectors are working intensely on testing which of their products can be manufactured using composites to boost performance.

Thanks to their products and processes, customers and business partners of RAMPF Tooling Solutions and the specialists from the Grafenberg-based company itself are among the market leaders in the aforementioned industries. As part of the RAMPF Composites Symposium, these experts displayed their know-how in numerous presentations and an encompassing in-house exhibition.

The presentations examined topics including the potential of cyanate ester for the resin infusion process, the processing and finishing of a CFRP fender, and the use of RAKU<sup>®</sup> TOOL Close Contour Castings in the manufacture of aircraft components.

### **Liquid, paste, and board materials for high-tech products**

After the presentations, participants had the opportunity to check out some truly impressive products and solutions for lightweight construction, courtesy of 21 exhibitors and the six RAMPF Group companies. The venue for the exhibition was the brand new production facility, where RAMPF Tooling Solutions will start producing polyurethane and epoxy styling, modeling, and working boards early next year.

The exhibits included a production mold for a boat hull that measured several meters in length and had been made using resin infusion, a prepreg lay-up tool for the production of a car roof, a glass-fiber lay-up tool for manufacturing a cockpit cover, and a gyro-stabilized camera mount that had been produced using the VARI (Vacuum Assisted Resin Infusion) technique.

“We are always very impressed by the products and solutions of our customers and business partners,” emphasizes Jochen Reiff, Managing Director of RAMPF Tooling Solutions. “We are proud that our liquid,

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paste, close-contour, and board materials are used for the production of such high-tech, high-quality products.”



The biggest exhibit on show: This production mold for a boat hull was manufactured using resin infusion with RAKU<sup>®</sup> TOOL EG-2104 / EH-2950-1 gelcoat resin and the RAKU<sup>®</sup> TOOL EI-2500 / EH-2973 resin infusion system.



The Callaway Competition team won both the drivers' and team titles at this year's ADAC GT Masters with the 600 bhp Corvette C7 GT3-R. Several composite parts for the race car were manufactured using RAKU<sup>®</sup> TOOL board and liquid materials.



For the production of this drone, the modeling board RAKU<sup>®</sup> TOOL MB-0600 was used for the manufacture of master models. For some of the other parts of the drone, the epoxy infusion resin system RAKU<sup>®</sup> TOOL EI-2500 was used.

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Jochen Reiff, Managing Director of RAMPF Tooling Solutions: “We attach great importance to working closely with our customers and partners in a relationship based on trust. After all, that is how innovative, high-quality products and processes come to be.”

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**RAMPF Tooling Solutions GmbH & Co. KG** based in Grafenberg, Germany, develops and produces board and liquid materials for cutting-edge modeling and mold engineering. The range of skills includes made-to-measure services and products such as pastes, large-volume and full-size castings for Close Contour models, and prototyping systems.

RAMPF Tooling Solutions is the world's largest producer of styling, modeling, and working board materials, which demonstrate excellent quality and the best mechanical properties.

High-quality Close Contour Pastes, Close Contour Blocks, and Close Contour Castings guarantee excellent and cost-effective solutions for modeling and mold engineering.

The company produces and develops pioneering systems for the composites industry that cover a wide variety of production procedures and a broad range of temperatures.

It goes without saying that RAMPF Tooling Solutions also provides expert advice, customer-specific service, and prompt technical support.

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

Publisher:  
RAMPF Tooling Solutions GmbH & Co. KG  
Robert-Bosch Str. 8-10  
72661 Grafenberg  
T + 49.7123.9342-1600  
F + 49.7123.9342-1666  
E [tooling.solutions@rampf-gruppe.de](mailto:tooling.solutions@rampf-gruppe.de)  
[www.rampf-gruppe.de](http://www.rampf-gruppe.de)

Your contact for pictures and further information:  
Benjamin Schicker  
RAMPF Holding GmbH & Co. KG  
Albstraße 37  
72661 Grafenberg  
T + 49.7123.9342-1045  
F + 49.7123.9342-2045  
E [benjamin.schicker@rampf-gruppe.de](mailto:benjamin.schicker@rampf-gruppe.de)