

Composites³ – RAMPF at JEC World 2018

Hall 6, Booth D50: RAKU[®] TOOL boards, paste, and liquid materials / Complete solutions for innovative carbon fiber and glass-fiber composites

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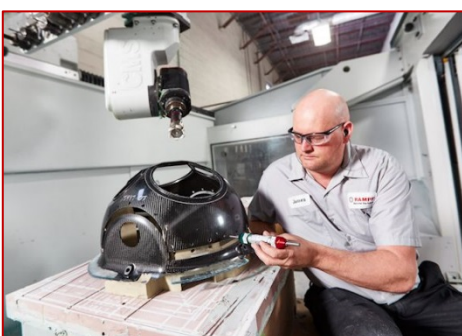
Grafenberg, February 14, 2017. A triple pack of lightweight construction expertise – RAMPF Tooling Solutions, RAMPF Composite Solutions, and U.S. subsidiary RAMPF Group, Inc. are representing the international RAMPF Group at this year's JEC World from March 6 to 8 in Paris – Hall 6, Booth D50.

RAMPF Tooling Solutions is exhibiting the high-performance and high-quality RAKU[®] TOOL range of liquid, paste, and board materials, which have been developed specially for the construction of models and molds in the composites industry. The epoxy and polyurethane systems cover a wide temperature range and exhibit excellent physical and mechanical properties. The RAMPF team of experts provides customers across the globe with swift advice on choosing the best-suitable materials and processing methods.



RAKU[®] TOOL CP-6060 Close Contour Paste was developed specially for the production of large models and molds. The paste was used for the production of this wind turbine blade model to manufacture blades using the composite construction method.

RAMPF Composite Solutions is exhibiting complete solutions in the field of innovative carbon fiber and glass-fiber composites for the aviation and medical sectors. At JEC World 2018, the company based in Burlington, Ontario, Canada, is showcasing its expertise in construction, structure analysis, and manufacturing for optimizing weight, rigidity, vibrations, materials, costs, environment, combustion, toxicity, timing, and manufacturing feasibility of high-tech composite parts and components.



The Look Down Gimbal, manufactured by Canadian company PV Labs, is used for filming footage for Hollywood blockbusters, public safety, and airborne geospatial. The cutting-edge composite parts were engineered and manufactured by RAMPF Composite Solutions.

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RAMPF Group, Inc., the U.S. subsidiary of the international RAMPF Group, has established itself as a leading supplier of RAKU[®] TOOL liquid, paste, and block materials. With its comprehensive range of services, the company also leads the way in terms of technology and quality on the NAFTA markets (United States, Mexico, Canada). For the composite manufacturing sector on these markets, RAMPF has developed the cyanate ester infusion system RAKU[®] FST, which is used to manufacture secondary structures in passenger aircraft (e.g. interior parts, doors and cabins, and evacuation system components) and for seat covers and components in business jets. The low-viscosity infusion system boasts first-class mechanical properties and can be used for applications with FST (fire, smoke, and toxicity) requirements.



The cyanate ester infusion system RAKU[®] FST, developed and produced by RAMPF Group, Inc., is used for the construction of composites parts in both passenger aircraft and business jets.

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www.rampf-gruppe.de/en/



The RAMPF Group stands for **engineering and chemical solutions** and caters to the economic and ecological needs of industry.

The range of competencies includes:

- > production and recycling of **materials** for modeling, lightweight construction, bonding, and protection;
- > technical **production systems** for precise, dynamic positioning and automation, as well as technologies for complex composite parts production;
- > comprehensive range of **solutions and services**, particularly for innovative customer-specific requirements.

With this know-how, RAMPF helps its customers to achieve profitable and sustainable growth.

The Group secures its presence on the international markets with 800 employees and six core competencies:

- > **RAMPF Machine Systems** based in Wangen (Göppingen), Germany, develops and produces multi-axis positioning and moving systems, trunk machines, and basic machines based on high-precision machine beds and machine bed components made from alternative materials.
- > **RAMPF Production Systems** based in Zimmern o. R., Germany, develops and produces mixing and dispensing systems for bonding, sealing, foaming, and casting a wide variety of materials. The company also offers a wide range of automation skills relating to all aspects of process engineering.
- > **RAMPF Composite Solutions** based in Burlington, Ontario, Canada, is a holistic composites supplier to companies in the aerospace and medical industries. The company offers a complete suite of services including composite part design and engineering, metal-to-composite conversion engineering, and composite manufacturing to very tight tolerances.
- > **RAMPF Eco Solutions** based in Pirmasens, Germany, develops chemical solutions for the manufacture of high-quality alternative polyols from PU and PET waste materials. This expertise is also put to use in the planning and construction of customer-specific facilities for manufacturing polyols.
- > **RAMPF Polymer Solutions** based in Grafenberg, Germany, develops and produces reactive resin systems based on polyurethane, epoxy, and silicone. Its product portfolio includes liquid and thixotropic sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives.
- > **RAMPF Tooling Solutions** 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 has subsidiaries in Germany, the U.S., Canada, Japan, and China.

All RAMPF companies are united under a holding company – RAMPF Holding GmbH & Co. KG – based in Grafenberg, Germany.

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