

Ultra-Fast, Ultra-Precise – RAMPF Optimizes Electronics Production

RAKU[®] Microwave Curing for thermal activation of high-performance electro casting resins at productronica 2021 – Hall A3 / Booth 339

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Grafenberg, Germany, October 19, 2021. Material, machine, and automation solutions from a single source – at productronica 2021 in Munich from November 16 to 19, the international RAMPF Group is presenting high-performance electro casting resins and innovative production systems with integrated dispensing technology for electronics production. The highlight – the Multipurpose Cell MC equipped with microwave technology for ultra-fast curing and processing times.

Electro casting resins made by RAMPF Polymer Solutions



Maximum safety, performance, durability, and efficiency – one- and two-component electro casting resins from RAMPF Polymer Solutions protect electrical/electronic systems in the automotive, energy, automation, and household industries against chemical substances and environmental influences such as heat, cold, and moisture.

The systems based on epoxy (RAKU[®] POX), polyurethane (RAKU[®] PUR), and silicone (RAKU[®] SIL)

- > exhibit a wide range of mechanical, thermal, and chemical properties.
- > ensure low thermal stresses by efficiently conducting heat away from the component.
- > remain stable in order to reduce stresses occurring in the component even with extreme changes in temperature.

Electro casting resins from RAMPF Polymer Solutions are used by leading manufacturers in the automotive and electronics industries, amongst others.

Production systems with integrated dispensing technology made by RAMPF Production Systems

RAMPF's mixing & dispensing systems ensure for the precise and fast processing of single-, dual-, and multi-component reactive plastic systems. The company also provides product-specific automation concepts with integrated parts transport and heat treatment, assembly and joining technology, as well as logistic and quality assurance solutions. The customer-specific solutions also include integrating both surface activation processes as well as testing and measuring technology to safeguard production processes. With this wide-ranging expertise, RAMPF Production Systems provides its customers with holistic solutions for their production facilities.

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Multipurpose Cell MC and RAKU[®] Microwave Curing for ultra-fast curing and processing times

At the RAMPF booth, visitors to productronica 2021 can see the MC Multipurpose Cell live in action. Building on the various cell sizes available, the modular design means that the MC can be expanded to include dispensing technology, small robots, linear axes, conveyor belts, and rotary indexing or sliding tables. Customized technology for joining, assembling, and testing creates a space-saving automation concept available as a stand-alone solution and production line.



The MC dispensing machine is equipped with RAMPF's modular microwave technology RAKU[®] Microwave Curing. Attaching an applicator below the mixing head of the dispensing system further heats the reactive mixture via microwaves, speeding up the system and thus ensuring the casting resin cures faster. The key advantage – one- and two-component electro casting resins react up to four times faster, which means that the component can be load-

ed or passed to the next processing step much faster.

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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 more than 900 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, China, and Korea.

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

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