

Holistic Solutions for Electromobility – RAMPF at Battery Show Europe

High-performance resin systems and automated dispensing technology for fast and cost-efficient sealing, casting, and bonding – Hall 8 / Booth 8-D20

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Grafenberg, Germany, May 14, 2025. The international RAMPF Group is presenting high-performance polymer systems and automated mixing and dispensing technology for fast and cost-efficient sealing, casting, and bonding of components in electromobility at Battery Show Europe in Stuttgart from June 3 to 5 – Hall 8 / Booth 8-D20.



Key Facts

1. With comprehensive expertise in reactive resin systems and automated mixing and dispensing technology, RAMPF develops quality solutions that deliver maximum material performance, manufacturing efficiency, and process reliability.
2. Sealing systems, electro casting resins, and adhesives from RAMPF Advanced Polymers stand out for their exceptional chemical and mechanical properties, as well as their user-friendly processing.
3. Automated, low-maintenance mixing and dispensing technology from RAMPF Production Systems ensures precise, reliable, and cost-effective processing of single- and multi-component reactive polymer materials.

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High-performance & Versatile – Sealing Systems, Electro Casting Resins, and Adhesives from RAMPF Advanced Polymers

The material portfolio of RAMPF Advanced Polymers includes high-quality standard solutions as well as custom-developed systems with excellent mechanical, chemical, and thermal properties. These innovative materials are listed by leading manufacturers in the automotive and electronics industries and meet international standards such as UL 50, UL 94, and RTI.

Sealing Systems



Sealing systems based on polyurethane (RAKU[®] PUR) and silicone (RAKU[®] SIL) ensure efficient and long-lasting sealing, meet the highest quality standards, and are easy to process. The fast-curing, low-emission, and heat-resistant systems protect battery covers, charging stations, and charging plugs from dust, dirt, moisture, chemical substances, and environmental influences.

Electro Casting Resins



Electro casting resins based on silicone, polyurethane, and epoxy (RAKU[®] POX) protect sensitive electrical and electronic components, batteries, motors, power electronics, sensors, and transformers from chemical substances and environmental influences such as heat, cold, and moisture. The one- and two-component systems ensure optimal thermal management and maximum durability.

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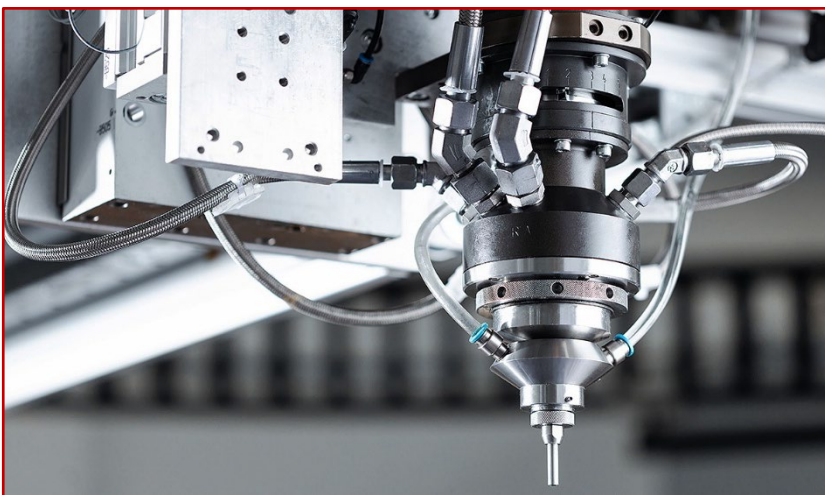
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Adhesives



Polyurethane, epoxy, and silane-modified polymer adhesives provide robust and long-lasting bonds with high resistance to temperature and chemicals. The versatile, process-reliable systems are precisely tailored to individual customer requirements and combine sealing, thermal management, and structural strength in a single solution.

Automated Precision – Mixing and Dispensing Technology from RAMPF Production Systems



With intelligent mixing and dispensing technology and customized automation concepts, RAMPF Production Systems develops holistic solutions for its customers' electromobility productions. A particular strength lies in its broad portfolio for processing single- and multi-component reactive polymer materials – the company has already developed more than 3,300 system solutions worldwide, ranging from simple manual systems to fully automated production lines.

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The modular systems include, among other things, robot integration, component handling, material pre-treatment, heat treatment, and optical quality control. Manufacturing efficiency and reliability are significantly increased via digital process simulation, 3D system planning, and predictive maintenance.

For leading OEMs and suppliers, RAMPF Production Systems designs and manufactures highly complex systems with integrated dynamic and static mixing technology – individually tailored to demanding applications in electromobility:

- Sealing of battery housings – Precise application of sealing beads on covers and housings for reliable, long-lasting sealing.
- Bonding of battery housings – Structural bonding with integrated surface activation for controlled adhesion, supported by high-precision joining tools.
- Gap filler casting – Reliable processing of highly filled, abrasive materials under atmospheric conditions for effective heat dissipation and high mechanical stability

Local Presence – Across the Globe

With production facilities, laboratory and application technology infrastructure in Europe, Asia, and North America, the international RAMPF Group delivers global service with rapid response times. Development, testing, and technical support are provided directly on-site. Customers benefit from tailored consulting, comprehensive material and process testing, and close collaboration throughout every project phase – from the initial concept to full-scale production.

Discover innovative solutions from the RAMPF Group at Battery Show Europe in Stuttgart – join us from June 3 to 5 in Hall 8, Booth 8-D20!

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The RAMPF Group stands for **Chemical & Engineering Solutions** and caters to the economic and ecological needs of industry with four 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 such as mineral casting, ultra-high performance concrete, and hard stone.
- > **RAMPF Production Systems** based in Zimmern o. R., Germany, develops and produces production systems with integrated dispensing technology for bonding, sealing, foaming, and casting a wide variety of materials. The company also offers an encompassing range of automation solutions 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, defense, transportation, medical, and green technology industries. The company offers a complete suite of services including composite part design and engineering, and metal-to-composite conversion engineering.
- > **RAMPF Advanced Polymers** based in Grafenberg, Germany, is a leading specialist in the development and manufacture of customized and sustainable solutions for formulating, sealing, casting, and design. The product portfolio includes sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives based on polyurethane, epoxy, silicone, and silane-modified polymers; board and liquid materials for model and mold making based on polyurethane and epoxy; chemical solutions for the manufacture of customized recycled polyols based on polyurethane, PET, and PIR residues.

RAMPF has subsidiaries in Germany, the United States, Canada, China, Japan, and Korea.

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

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