

RAMPF – Material & Process Technology for Electrical/Electronic Components

Middle East Energy 2020 in Dubai – Reactive resins and dispensing systems for sealing, casting, and bonding

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Grafenberg, Germany, February 17, 2020. The international RAMPF Group is presenting reactive resin systems based on polyurethane, epoxy, and silicone and production systems with integrated dispensing technology at Middle East Energy (MEE) in Dubai from March 3 to 5 – Hall 1, Booth H1.H36 (German pavilion).

RAMPF Polymer Solutions – Reactive Resin Systems

RAMPF Polymer Solutions based in Grafenberg, Germany, is a leading developer and manufacturer of reactive resin systems based on polyurethane, epoxy, and silicone. The product portfolio includes liquid and thixotropic sealing systems, electro casting resins with high thermal conductivity, performance materials, elastomers, and adhesive systems.



The product focus at MEE 2020 is **FIPFG technology with polyurethane and silicone systems for control cabinets and electrical enclosures.**

These serve as control centers in which electronic components of machines and systems are protected from dust, liquids, and other influences.

For this challenging task, RAMPF Polymer Solutions has developed high-performance sealing foams consisting of polyurethane (RAKU[®] PUR) and

silicone (RAKU[®] SIL) systems for in- and outdoor applications. The two-component materials are UL, NEMA, and ATEX approved.

Further advantages are:

- > IP 67, 68, etc. classification
- > Suitable for indoor and outdoor applications
- > Strong abrasion surface
- > Chemical resistance
- > Adhesion on different materials
- > Fast curing, handling, and assembly

As indoor, outdoor, and offshore control cabinets must meet different requirements depending on their operating environment, RAKU[®] PUR and RAKU[®] SIL sealing systems are tailor-made for the respective application areas.

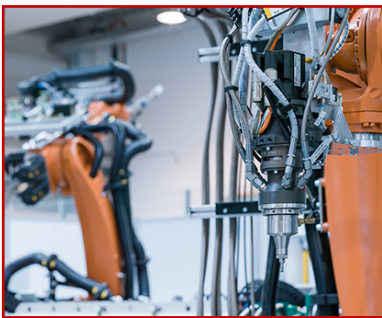
RAMPF Production Systems – Dispensing Technology & Automation Concepts

RAMPF Production Systems based in Zimmern ob Rottweil, Germany, is one of the world's leading suppliers of mixing & dispensing technology for sealing, bonding, foaming, and casting single-, dual-, and

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multi-component reactive resin systems. The compact dispensing cells and dispensing robots, set up with high-performance controllers from Siemens or Beckhoff, meet every requirement in terms of dynamism, interaction, and data management.



In addition to its core competence of mixing and dispensing technology, the company specializes in the **automation of production facilities with integrated dispensing technology**. By combining mixing and dispensing expertise with product-specific automation concepts, RAMPF generates the highest customer benefit. Automation solutions include handling and robotics (e.g. KUKA, ABB, FANUC, DENSO), component transport (part carriers, conveyor belts, rotary indexing tables), recording process parameters with MES connection, construction tools and equipment, heat treatment (infrared, convection, HF procedure, microwave technology), image processing and sensors, and contactless measuring technology.

eters with MES connection, construction tools and equipment, heat treatment (infrared, convection, HF procedure, microwave technology), image processing and sensors, and contactless measuring technology.

Material and process technology for sealing, casting, and bonding – the international RAMPF Group is an expert for maximizing both the production process and performance of electrical/electronic components – Hall 1, Booth H1.H36!

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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, and China.

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

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