

# **RAMPF – High-performance Reactive Resins & End-to-End Production Systems with Integrated Dispensing Technology**

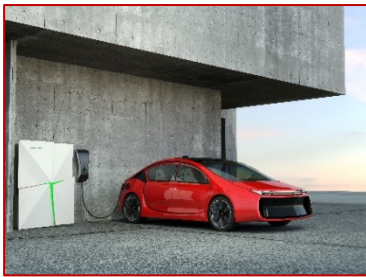
MECSPE 2019 – Sealing and casting systems based on polyurethane and silicone / DC-CNC800 compact dispensing cell

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Page 1 of 4

**Grafenberg, Germany, February 27, 2019. The international RAMPF Group is attending Italy's largest specialist plastics trade fair MECSPE in Parma for no less than the ninth time. From March 28 - 30, high-performance reactive resins for sealing, casting, and bonding will take center stage alongside end-to-end production systems with integrated dispensing technology – Booth G25, Hall 6.**

### **> Highlight – RAKU<sup>®</sup> SIL 37-1210 two-component silicone foam for e-mobility applications**



RAMPF Polymer Solutions is displaying its new silicone foam that cures within minutes of application at room temperature. This cuts out the oven-curing typically associated with silicone foam, making installation faster and saving an entire production step. Further advantages include its low hardness (Shore 00), low compressive strength for low installation forces, and high chemical and temperature resistance. Applications include bat-

tery covers, engine compartment gaskets, and control cabinets in explosive environments and outdoors.

### **> Foam gaskets for the automotive industry**

RAKU<sup>®</sup> PUR and RAKU<sup>®</sup> SIL foam gaskets from RAMPF Polymer Solutions are used throughout automotive construction. Their outstanding mechanical properties, excellent adhesion to almost all plastic materials, and short tack-free time make these polyurethane and silicone systems the go-to-product for a wide range of applications. Low-emission options are available for automotive interiors. Applications include door modules, brake lights, headlights, taillights, electrical enclosures, ignition coil covers, fuse boxes, ventilation grills, speakers, panels etc.

### **> RAKU<sup>®</sup> PUR Speed – faster than ever**



The new generation of RAKU<sup>®</sup> PUR Speed quick-curing polyurethane foam gaskets has been developed specifically for ultrafast process chains in automotive manufacturing. These gaskets are ready for use less than three minutes after application, freeing up production areas and making them ideal for lean manufacturing. The foam gaskets are designed for use in both 2D and 3D applications and meet the standards

required by leading OEMs.

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**> Maximum performance in the cold, rain, snow or frost**



RAKU<sup>®</sup> polyurethane and silicone resins for exterior applications ensure minimal swelling under icy conditions together with a reliable, lasting seal. These reaction resins boast outstanding adhesion to a range of housings (stainless steel, aluminum, powder coatings, plastic, glass) and are UL-certified, suitable for numerous IP and NEMA tests, and authorized by leading housing manufacturers. Applications throughout the housing, lighting, and automotive sectors.

**> Sealing, casting, and adhesive systems for manufacturing filters**



Two-component foam gaskets, casting systems, adhesives, and reactive hot-melt adhesives from RAMPF Polymer Solutions achieve first-class results in the filter industry. The good flow characteristics of the compact two-component PU casting systems and short curing times significantly speed up the casting processes used in the manufacture of air filters. The good adhesive characteristics on plastic (particularly ABS and PS) help improve the stability of the filter elements. Depending on the requirements of the application, these polyurethane systems are available as antibacterial and silicone/silane-compound-free formulations.

**> DC-CNC800 compact dispensing cell – flexible and dynamic**



Compact, flexible, high-performance – the DC-CNC800 dispensing system for dynamic sealing, bonding, and casting from RAMPF Production Systems. The system features a built-in material preparation unit and can be fitted with high-precision piston or gear pumps. A CNC Siemens Sinumerik control system and Beckhoff control technology are available for modular control. A further advantage is the integrated process monitoring that oversees pressures, fill levels, and speeds.

The DC-CNC800 can be fitted with a high-pressure rinse agent recycling system, high-pressure water rinsing, various application-specific automation systems, and the MS-C mixing system for dispensing rates of 0.1 g/sec and above. Its large tanks facilitate the filling of small containers in a single step. Additional features include standardized operating concepts for shuttle table, rotary index plate, and conveyor feed, together with vacuum barrel presses. Accessibility has been optimized for maintenance work on the piston or gear pumps and controls.

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**> Automating production processes with integrated dispensing technology**



Process expertise combined with the optimal automation solution generates maximum customer benefit. In addition to its core competence of mixing and dispensing technology, RAMPF Production Systems develops customized automation systems, such as for handling and robotics, component transportation, control technology, and capturing all process parameters with MES connection. The company's process automation portfolio also includes tool and equipment construction, material pre-treatment (activation), heat treatment, image processing, sensors, and contactless measuring technology.

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[www.rampf-group.com](http://www.rampf-group.com)



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 880 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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