

RAMPF presents performance-optimized machinery and materials for electro casting

productronica 2017: MS-C mixing system with outstanding surface protection / PUR systems with high thermal conductivity and resistance to thermal shock

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Grafenberg, October 25, 2017. Material, process technology, and machinery from a single source – the international RAMPF Group is presenting its complete range of products for casting electrical and electronic components at productronica 2017 in Hall A3 / Booth 241.

RAMPF's engineering and chemical solutions for casting electrical and electronic components are optimizing the value creation chain for electronics manufacturing:

- > Innovative production systems with integrated dispensing systems from **RAMPF Production Systems** enable the efficient and highly precise casting of electrical and electronic components.
- > **RAMPF Polymer Solutions** develops and produces high-performance electro casting resins based on polyurethane, epoxy, and silicone for reliably protecting electrical and electronic components.

Highlights at productronica 2017:

RAMPF Production Systems – MS-C mixing system with the best possible surface protection



RAMPF Production Systems presents the latest version of the MS-C mixing system for dynamic casting, sealing, and bonding of fast-sedimenting, highly abrasive, and highly viscous materials. With its servo-controlled ceramic valve technology, the MS-C sets benchmarks when it comes to reproducibility and reliability.

Its small external dimensions give the mixing system greater flexibility in applying complex component contours. Due to its simple, modular construction and a design that separates the valve section from the mixing chamber section, the MS-C is extremely low-maintenance. If required, it can also be fitted with a shut-off system that does not cause any additional edges and ensures drip-free working.

The latest model of the MS-C is made of hard anodized aluminum, and is therefore perfectly protected against scratching and oxidation.

RAMPF Polymer Solutions – Electro casting resins with maximum flexibility at minimum temperatures

Two-component polyurethane casting systems from RAMPF Polymer Solutions protect sensitive electronic components from vibrations and thermal shock – even at extremely low temperatures. RAKU[®] PUR systems now offer even higher performance, are more robust and more temperature independent. Applications include control units, PCBs, and sensors for the automotive industry.

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RAMPF Polymer Solutions is also presenting the latest generation of electro casting resins combining high thermal stability with improved thermal conductivity and heat resistance. These ensure the efficient “cooling” of the component without impacting the necessary mechanical flexibility.

The RAKU[®] PUR systems achieve values of up to 2.5 [W/(m*K)] and have low viscosity to efficiently protect complex components. They also excel through their excellent thermal shock resistance and long service life. Areas of application include engines, control units, inverters, transformers, and chokes.

Visit RAMPF at productronica 2017 in Munich, November 14 - 17 – Hall A3, Stand 241.

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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 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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