Press Release

RAMPF – Engineering and chemical solutions from a single source

NPE 2018 – Plural component dispensing systems, 1- and 2-component polymer systems, modeling, tooling & mold engineering materials

Wixom, MI, USA, April 16, 2018. Engineering and chemical solutions from a single source – RAMPF Group, Inc. is presenting its encompassing portfolio of plural component dispensing systems, 1- and 2-component polymer systems, and modeling, tooling & mold engineering materials at NPE 2018 from May 7 - 11 in Orlando, FL – South Hall Level 1 / Expo Hall / S27160.

Reactive polymer systems

RAMPF Group, Inc. develops and produces 2-component polymer systems based on polyurethane (RAKU® PUR), epoxy (RAKU® POX), and silicone (RAKU® SIL). The product portfolio includes

> Sealing systems based on polyurethane and silicone – Key features include low water absorption, good adhesion, high long-term temperature resistance, and cost-efficient processing. Liquid and thixotropic sealing systems from RAMPF are used, amongst others, in the automotive, energy, household, and packaging industries.

> Electro casting resins based on epoxy, silicone, and polyurethane for innovative sealing, casting, bonding, and thermal management solutions for battery housings, sensors, plugs, relays, and on-board chargers. The reactive polymer systems offer a wide range of mechanical, thermal, and chemical properties, meet the highest quality requirements, and ensure greater safety, control, cost-efficiency, and convenience.

> Adhesive systems based polyurethane, epoxy, and silicone, as well as thermoplastic and reactive hotmelts. These offer excellent adhesion properties for a permanently secure bond on a wide variety of materials, including plastic, acrylic glass, aluminum, and wood. Adhesives from RAMPF are used in automotive interiors, household appliances, optical bonding, the wood/furniture sector, façades, balustrades, and sandwich bonding for bus roofs, caravans, and refrigerated vehicles, along with many more applications.

Mixing and dispensing systems

RAMPF Group, Inc. offers a unique proposition to the market as it develops and produces both the reactive polymer systems as well as the static and dynamic-mix dispensing systems for their precise and reliable processing.

The company's experts engineer and manufacture automated, robotic turnkey work cells for sealing, bonding, foaming, and casting single-, dual-, and multi-component reactive plastic systems. The mixing and dispensing systems improve productivity, quality, cost, and consistency of polymer dispensing, handling, and curing of assemblies.

RAMPF Group, Inc. also offers contract-manufacturing options for liquid gaskets, sealing, and casting out of its Wixom, MI, and Suwanee, GA, locations.

Modeling and mold engineering materials

RAMPF is the leading supplier of customized tooling solutions for cost-effective and high-quality model, mold, and tool construction, which serves the automotive, marine, and aviation industries. The company's RAKU® TOOL brand includes styling, modeling, and working board materials; Close Contour Pastes, Close Contour Casting, and Close Contour Blocks; and liquid systems for the composites industry that cover a wide variety of production processes and a broad range of temperatures.

The company also produces mercury-free, RoHS-compliant polyurethanes for casting models, prototypes, and low-volume production parts. These exhibit a wide range of handling, curing, and performance properties for use in applications such as

> medical and electronic devices and housings
> automotive interior parts, under-hood components, and fascia
> amusement ride seats and restraints
> abrasion-resistant parts and linings
> high-clarity lenses and pillow optics

RAMPF's RAKU® TOOL Close Contour Paste CP-6070/6072 was used for the manufacture of "Fast Eddy", a concept car designed by Californian-based Aria Group. © Aria Group, RAMPF

www.rampf-group.com

RAMPF Group, Inc., based in Wixom, Michigan, is the North American subsidiary of the international RAMPF Group.

The product portfolio of RAMPF Group, Inc. is comprised of:

> mixing and dispensing systems for the reliable processing of polymers
> two-component polymer (or synthetic) systems based on polyurethane, epoxy, and silicone
> modeling and mold engineering materials, in particular for the automotive, marine, and aviation industries

The international RAMPF Group stands for engineering and chemical solutions and caters to the economic and ecological needs of industry. 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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