

RAMPF: Bonding, sealing, and casting solutions for battery applications

Battery Show North America 2017 – Booth 1447: Epoxy, silicone, and polyurethane polymers / Dispensing and automation systems

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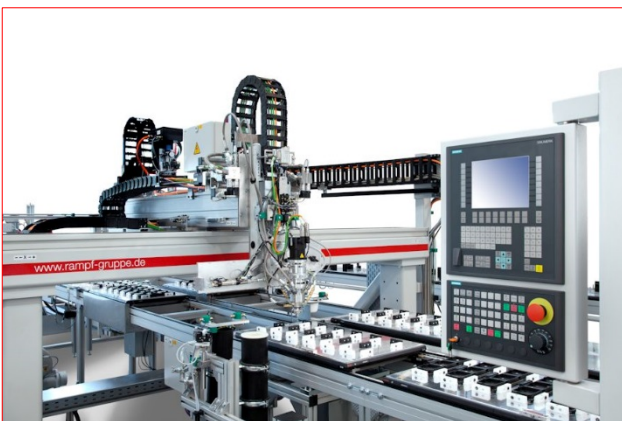
Wixom, MI, USA, September 4, 2017. RAMPF Group, Inc., the North American subsidiary of the international RAMPF Group, is presenting innovative bonding, sealing, and casting solutions for battery applications at the Battery Show North America 2017 in Novi, MI, September 12 - 14.

Epoxy, silicone, and polyurethane polymers



RAMPF Group, Inc. utilizes expertise in epoxy, silicone, and polyurethane polymers 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.

Dispensing and automation systems



RAMPF Group, Inc. has comprehensive experience in high-performance production systems for the precision handling and application of polymers. The company's experts engineer and manufacture auto-

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mated, turnkey work cells that improve productivity, quality, cost, and consistency of polymer dispensing, handling, and curing of assemblies.

Material, machine, and process technology from a single source – the holistic service from RAMPF

“Material quality and processing are key to the optimal functioning and durability of electrical and electronic systems,” says Lance Ewert, Division Manager Reactive Polymer Technologies at RAMPF Group, Inc. “Our reactive polymer systems and process technology provide the automotive, energy, automation, and household goods industries worldwide with electrical and electronic components that deliver best performance. For this, we offer customers complete support – from product development to market launch.”

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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.

Published by:
RAMPF Group, Inc.
49037 Wixom Tech Drive
Wixom, Michigan 48393, USA
T +1.248.295-0223
F +1.248.295-0224
E info@rampf-group.com
www.rampf-group.com

Your contact for images and further information:
Benjamin Schicker
RAMPF Holding GmbH & Co. KG
Albstrasse 37
72661 Grafenberg, Germany
T + 49.7123.9342-1045
F + 49.7123.9342-2045
E benjamin.schicker@rampf-gruppe.de