

RAMPF – Customized Polyurethanes Boost Performance of Tooling and Modeling Products

Cutting-edge Liquid Materials for Models, Prototypes, and Production Parts

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Wixom, MI, USA, May 20, 2019. With customized polyurethanes and encompassing process support, RAMPF Group, Inc. is enabling its customers to elevate the performance and durability of their tooling and modeling products to a new level.



“Our RAKU[®] TOOL liquid material portfolio encompasses a large selection of innovative, high-performance products for various processes and applications. Our chemists develop customized systems or adapt existing products quickly and economically. And, with a dedicated team of experts, we proactively support customers in the development and production of their products”, Mark Davidson, Tooling Solution Division Manager at RAMPF Group, Inc., illustrates the company’s exceptional positioning in the market.

RAMPF’s mercury-free, RoHS-compliant polyurethanes are used for casting models, prototypes, and low-volume production parts for

- > Medical and electronic devices and housings
- > Automotive interior parts, under-hood components, and fascia
- > Amusement rides and theming elements
- > Abrasion-resistant parts and linings
- > Medical and veterinary demonstration models
- > High-clarity lenses and pillow optics
- > Taxidermy reproductions
- > Equipment seals, gaskets, and O-rings
- > Material handling nests and fixtures
- > Sporting equipment
- > Military training and safety equipment

Maximum-performance products made with RAMPF liquid systems

RAKU[®] TOOL polyurethanes facilitate the manufacture of unparalleled tooling and modeling products:

> RAKU[®] TOOL InnoTuf[®] TP-4009

This high-impact and fast demold polyurethane system is ideal for producing functional automotive components. RAKU[®] TOOL InnoTuf[®] TP-4009 is free of mercury, MOCA, and TDI, exhibits superior heat resistance, and can be processed using hand-batch, vacuum casting, and meter-mix methods.

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> RAKU[®] TOOL InnoFR[®] FX-8575

This Shore 75D hardness polyurethane system is UL94 V-0 listed and especially suited for the manufacture of large medical device housings that require tinted viewing window elements. RAKU[®] TOOL InnoFR[®] FX-8575 exhibits excellent physical properties and clarity. It is easy to handle (room temperature hand-batch systems), tint, and pigment.

> RAKU[®] TOOL RapidVac[®] VA-1290

This polyurethane system for hand-batch and vacuum-assisted casting is formulated with hardness Shore 80D and free of mercury, MOCA, and TDI. With a broad range of physical performance properties, it is well suited for use in molding high-quality, void-free automotive components, electronics parts, medical equipment components, and sports/recreation equipment. RAKU[®] TOOL RapidVac[®] VA-1290 exhibits excellent heat resistance and is easy to pigment (neutral color).

> RAKU[®] TOOL EP-2344/EH-2944

In the fall of last year, RAMPF introduced the E84 Class A flame retardant sculpting epoxy RAKU[®] TOOL EP-2344/EH-2944 to the market. Within a short time, the epoxy has established itself as a go-to-product for the theming industry. The low-density material can be applied to aluminum, fiber glass, wood, and other substrates for textural impressions and artistic expression. There is no running or sagging, and application is easy.



Rock walls with an exceptional degree of authenticity are manufactured using the sculpting epoxy RAKU[®] TOOL EP-2344/EH-2944 and the polyurethane board RAKU[®] TOOL SB-0240.

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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
- > machine bases, machine frames, and other structural components made from mineral casting (polymer concrete)

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 approx. 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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