

RAMPF: Materials and machinery for assembly applications

Assembly Show 2016: Foam gaskets and dispensing equipment for sealing, protection, and insulation

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Wixom, MI, October 18, 2016. RAMPF Group, Inc. is presenting its portfolio of reactive resins and dispensing equipment for sealing, protecting, and insulating assembly components at the Assembly Show in Rosemont, IL, from October 25 - 27 – Booth 1801.

At the Assembly Show 2016, the RAMPF booth is the one-stop-shop for materials and machinery for sealing, protecting, and insulating assembly applications from noise, moisture, dust, vibration, and heat. The company based in Wixom, MI, specializes in 1- and 2-component polyurethane, silicone, and epoxy resins, as well as dispensing equipment for the precise placement of these materials.

The highlights at the Assembly Show 2016: RAKU-PUR[®] 32-3250 polyurethane foam gaskets, RAKU-SIL 37-1104 silicone foam gaskets, and the desktop dispensing cell DC-CNC250.

RAKU-PUR[®] 32-3250 foam gasket portfolio

RAKU-PUR[®] 32-3250 foam gaskets insure the safe sealing and protection of critical components against noise, vibration, water, humidity, and dust. The fast curing 2-component FIPFG foam gaskets exhibit IP sealing properties, provide permanent good adhesion, and are UL 94, 50 and 50E rated. Further benefits:

- > high mechanical strength
- > very good sealing tightness
- > excellent compression recovery
- > very low water absorption
- > low density



RAKU-PUR[®] 32-3250 foams gaskets are used world-wide in a number of assembly applications, e.g. control cabinets (see picture), automotive components, appliances, electronic enclosures, and lighting.

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RAKU-SIL 37-1104 silicone foam

RAKU-SIL 37-1104 is a liquid, 2-component silicone foam which cures at room temperature and contains no solvents or plasticizers. The silicone system is suitable for ATEX applications, UL 50 E and UL 94 HB rated, and provides a wide range of benefits:

- > closed cell structure
- > superior chemical resistance
- > hybrid liquid-thixotropic behavior
- > good mechanical resistance
- > temperature range -50 °C to +220 °C
- > adherence optimized using plasma treat (plastics) or primer (metals)
- > good UV resistance
- > low water absorption
- > good tightness to aqueous media
- > good low temperature flexibility

RAKU-SIL 37-1104 is used, amongst others, in control cabinets, automotive components, appliances, electronic enclosures, and lighting.

DC-CNC250 – high-precision dispensing of paste-like and abrasive media



Small and smart – the DC-CNC250 desktop dispensing cell from RAMPF is a cost-effective solution for the high-precision dispensing of paste-like and abrasive materials.

The user-friendly desktop device has an integrated dispensing system and can be programmed for dispensing individual spots or lengths. The individual components are dispensed using a piston system designed with an extremely long service life. This results in the highest levels of accuracy and long maintenance intervals. It can process any standard paste, adhesive, or casting material that supports static mixing.

Advantages of the RAMPF DC-CNC250 at a glance:

- > Compact design, but still flexible
 - > Desktop device with integrated controls and material supply
 - > Material supply from cartridges or canisters separate from dispensing cell
 - > Good accessibility for maintenance work

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- > High-precision dispensing of small volumes:
 - > Processing of 1- and 2-component materials
 - > Viscosities of approximately 100,000 - 700,000 mPa*s can be processed
 - > Static mixing system
 - > Fully adjustable mixing ratio from 100:100 - 100:1
 - > Dispensing volumes \geq 5 mg / dispensing spot
 - > Can process highly abrasive materials
- > Intelligent controls:
 - > High-resolution 15" touch display with embedded PC
 - > RAMPF process visualization
 - > User-friendly protection of insertion area with lifting door

There is a wide range of additional fit-out options for the DC-CNC250, including material supply from 310 ml cartridges, 20- to 30-liter barrel presses, and 4-liter pressurized containers and a workbench.

RAMPF Group, Inc. also offers contract manufacturing services to dispense resins on customer parts in electrical enclosures and electronic components applications.

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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 more than 700 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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