

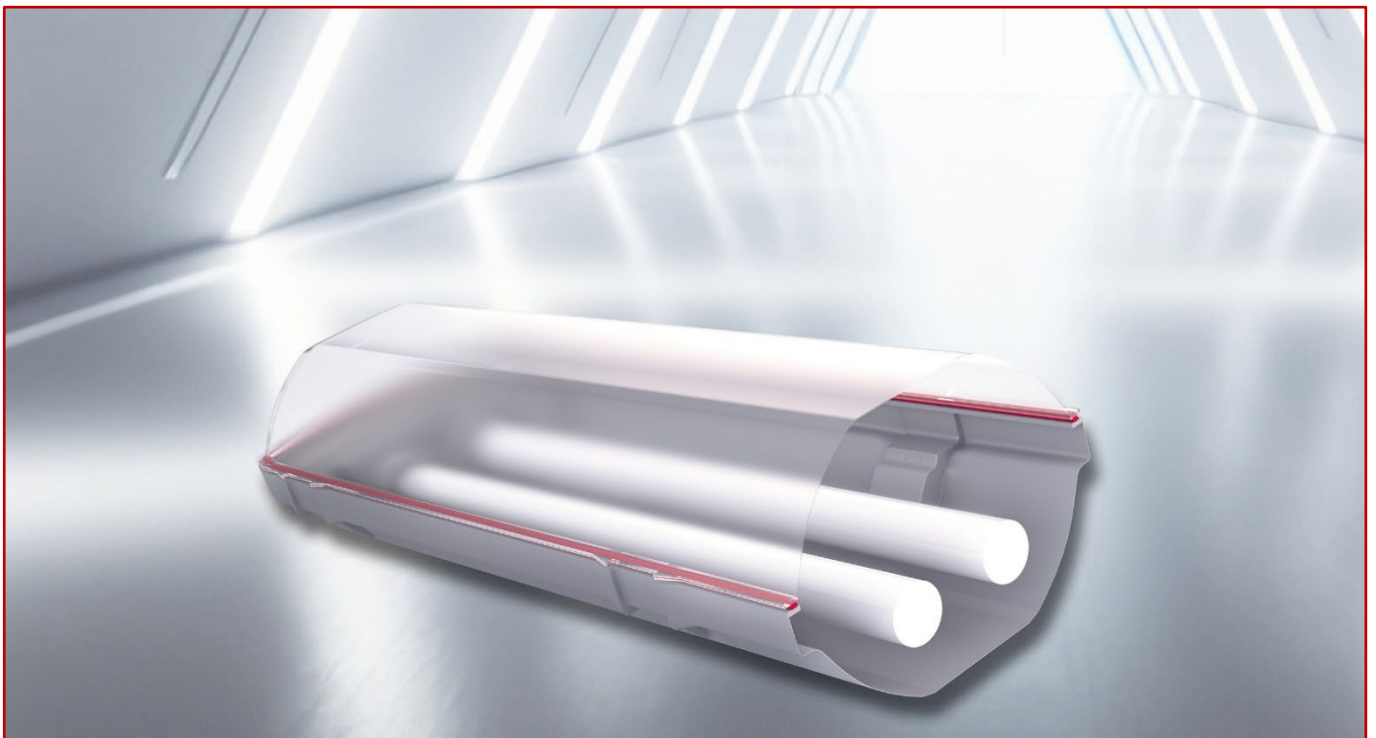
High-Performance Sealing. Ultra-Fast Production. RAMPF Technology for the Lighting Industry.

Sealing systems based on polyurethane and silicone /
Automated mixing and dispensing technology

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Grafenberg, Germany, November 10, 2025. Innovative materials, intelligent production processes: With high-performance sealing systems and automated mixing and dispensing technology, the international RAMPF Group delivers customized solutions to meet the growing demands of the lighting industry.



Key Takeaways

1. With high-quality sealing systems and automated mixing and dispensing technology, the international RAMPF Group enhances product quality and manufacturing efficiency in the lighting industry.
2. Sealing systems based on polyurethane and silicone from RAMPF Advanced Polymers provide reliable, long-lasting protection for lighting components against dust, moisture, water, and cleaning agents.
3. Mixing and dispensing systems from RAMPF Production Systems ensure maximum precision, fast cycle times, and outstanding flexibility when processing reactive sealing systems.

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High-performance Sealing Systems for Maximum Performance & Long-Term Protection



RAMPF Advanced Polymers offers lighting manufacturers a broad portfolio of sealing systems based on polyurethane (RAKU® PUR) and silicone (RAKU® SIL). The two-component reactive resins provide maximum and long-lasting protection against dust, moisture, water, and cleaning agents, ensuring reliable sealing up to IP 67.

They feature excellent resistance to UV radiation and high temperatures, making them suitable for both indoor and outdoor applications. Additional benefits include:

- Low water absorption
- Minimal assembly forces
- Short reaction times for fast component processing
- Stable and abrasion-resistant surface
- Exceptional aging resistance
- Certified to UL94 V0, UL50, UL50e

Sealing materials from RAMPF Advanced Polymers are used by leading lighting manufacturers worldwide. They deliver top performance, reliable protection, and maximum service life – even under the most demanding operating conditions.

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Automated Mixing & Dispensing Technology for Maximum Efficiency



Mixing and dispensing systems from RAMPF Production Systems stand for fast cycle times and maximum flexibility in lighting manufacturing. With a high degree of automation and autonomy, the systems ensure precise and reproducible application of single- and multi-component sealing systems – both as stand-alone solutions and integrated into existing production lines. Whether low- or high-viscosity foams, grooves, or flat profiles – RAMPF mixing and dispensing technology delivers ultra-precise results.

In series production, additional efficiency gains are achieved through RAMPF's proprietary FlexSpeed technology. By synchronizing dispensing output with axis feed and using precise volumetric forced dispensing, cycle times are reduced by up to 50 percent. The dispensing robot reaches speeds of up to 40 m/min on straight paths and decelerates smoothly at corners and curves, ensuring consistently high sealing quality. Even with large-format lighting components such as linear luminaires, the geometry of the seal remains stable.

FlexSpeed also increases machine utilization while protecting mechanical components. Thanks to only brief periods of full load, wear is minimized. Speed-dependent dispensing protects mechanical parts and ensures sustainable efficiency improvements.

- Your contact for advanced sealing technology: [RAMPF Advanced Polymers](#)
- Your contact for ultra-efficient production processes: [RAMPF Production Systems](#)

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The RAMPF Group stands for **Chemical & Engineering Solutions** and caters to the economic and ecological needs of industry with four 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 such as mineral casting, ultra-high performance concrete, and hard stone.
- > **RAMPF Production Systems** based in Zimmern o. R., Germany, develops and produces production systems with integrated dispensing technology for bonding, sealing, foaming, and casting a wide variety of materials. The company also offers an encompassing range of automation solutions 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, defense, transportation, medical, and green technology industries. The company offers a complete suite of services including composite part design and engineering, and metal-to-composite conversion engineering.
- > **RAMPF Advanced Polymers** based in Grafenberg, Germany, is a leading specialist in the development and manufacture of customized and sustainable solutions for formulating, sealing, casting, and design. The product portfolio includes sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives based on polyurethane, epoxy, silicone, as well as silane-modified polymers; board and liquid materials for model and mold making based on polyurethane and epoxy; chemical solutions for the manufacture of customized recycled polyols based on polyurethane, PET, and PIR residues.

RAMPF has subsidiaries in Germany, the United States, Canada, China, Japan, and Korea.

All RAMPF companies are united under a holding company – RAMPF Holding GmbH & Co. KG – based in Grafenberg.

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