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RAMPF Polymer Solutions

Innovative solutions for sealing, bonding, and casting

RAMPF

#DiscoverTheFuture



Engineering and Chemical Solutions



Machine Systems



Production Systems



Composite Solutions



Eco Solutions



Polymer Solutions



Tooling Solutions

RAMPF Polymer Solutions is a company of the international **RAMPF** Group.
Find out more on page 24.

RAMPF Polymer Solutions

Innovative solutions for sealing, bonding, and casting

The company from Grafenberg, Germany, is a leading developer and manufacturer of reactive resin systems based on polyurethane, epoxy, and silicone.

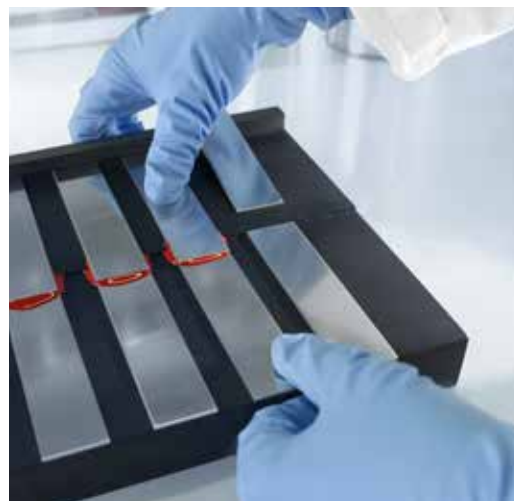
The RAMPF Polymer Solutions product portfolio includes liquid and thixotropic sealing systems, electro and engineering casting resins, edge and filter casting resins, adhesive systems, and hotmelt adhesives.

Research and development have top priority at RAMPF Polymer Solutions. A large innovation center is available for laboratory and application technology.

There, new products are developed, existing products adapted to specific customer requirements, and a wide range of material combinations tested. In doing so, particular emphasis is placed on the use of renewable raw materials.

It goes without saying that RAMPF Polymer Solutions provides holistic customer support both during product introduction and the production process.

The company is certified to ISO 9001, IATF 16949, ISO 50001, and ISO 14001.



Discover more on
[youtube.com/rampfgroup](https://www.youtube.com/rampfgroup)



Products and services

By working closely with our customers, we develop creative, custom solutions adapted to your specific needs and processes.



MATERIALS

RAKU® MELT Hotmelts	RAKU® POX Epoxy	RAKU® PUR Polyurethane	RAKU® SEAL Sealant	RAKU® SIL Silicone
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Innovative, high-performance, sustainable:

RAMPF Polymer Solutions develops and manufactures reactive resin systems based on polyurethane, epoxy, and silicone, and places particular emphasis on the use of renewable raw materials.

PRODUCTION SYSTEMS

Sealing	Design	Insulation	Bonding	Protection	Casting
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Future-oriented, high-tech, professional:

At the RAMPF Innovation Center, we use the latest systems and test procedures to develop new products, adapt existing products to specific customer requirements, and test a huge range of material combinations.

SERVICES

Support in design and construction of components	Consulting, application engineering, and customer service	Global production and sales network
Internal and external training	Customer-specific material development	Samples production, independent process development

Customer-oriented, skilled, committed:

RAMPF Polymer Solutions provides customer support throughout both the development and production process. The company's experts also offer material and application training and innovation workshops.



+ YOUR BENEFITS

- > Comprehensive product portfolio with a wide range of properties for many applications
- > Tailored solutions and innovative standard products
- > Comprehensive expertise and many years of experience in product development and processing technologies
- > High level of expertise in component design

The fascination of chemistry

Innovative reactive resin systems

Reliable and efficient casting, protection, insulation, sealing, bonding, and design

Chemistry is our passion. As a technology driver and leader in quality, we develop and manufacture pioneering reactive resin systems. Products of the RAKU® PUR (polyurethane systems), RAKU® POX (epoxy systems), RAKU® SIL (silicone systems), and RAKU® MELT (hotmelt adhesives) brands ensure you have the perfect solution for your application:

SEALING

Liquid to highly thixotropic sealing systems and compact gaskets based on polyurethane and silicone for protecting components and modules. Molded and rigid foams for a whole range of applications.

DESIGN

Systems for custom-manufacturing molds and components with outstanding mechanical properties.

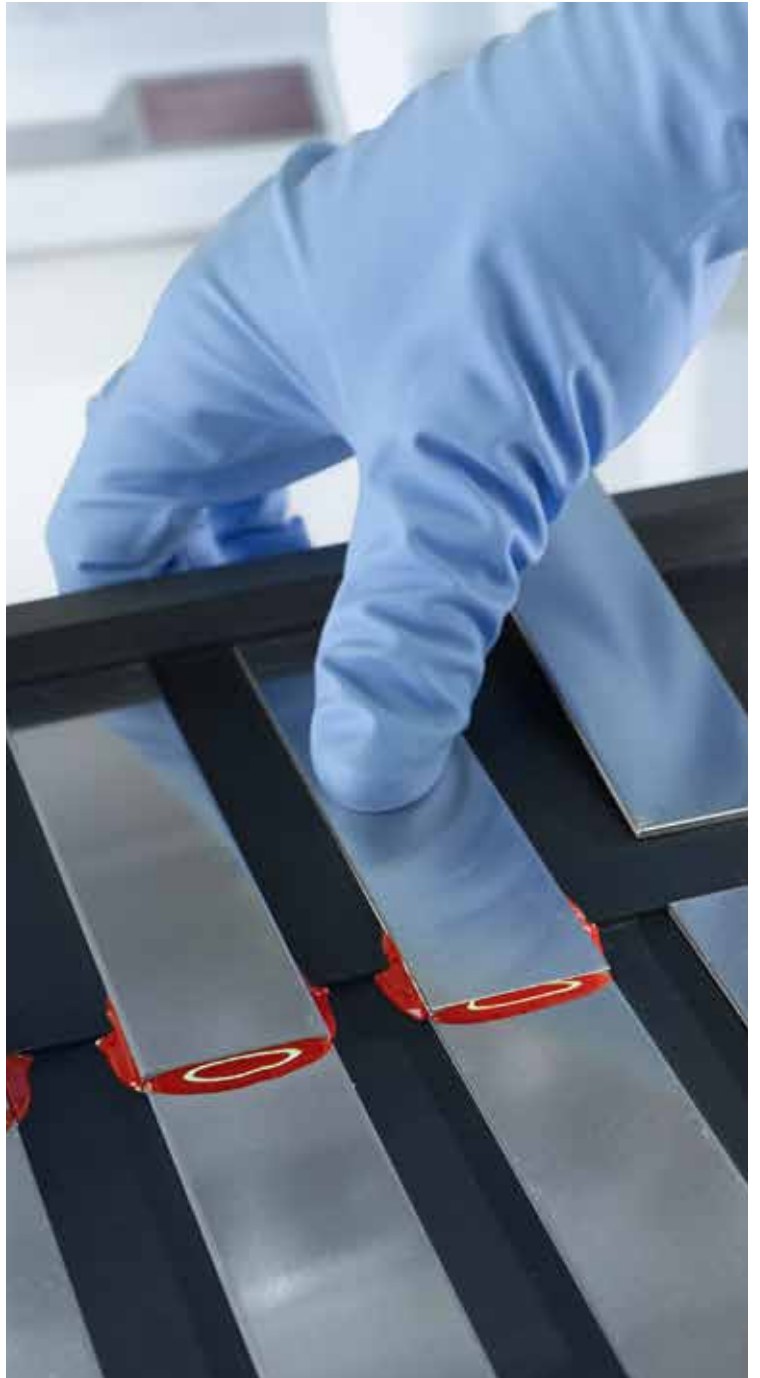
BONDING

Adhesive systems and hotmelt adhesives with exceptional adhesion and a wide range of properties for strong and effective bonding.

CASTING, PROTECTION, INSULATION

Systems based on polyurethane, epoxy, and silicone provide effective protection from dirt, moisture, chemicals, wear, temperature variations, and other influences.





TECHNOLOGIES

Your challenge.
Our solution.



+ YOUR BENEFITS

- > Comprehensive industry and application expertise
- > Customized formulation of materials – almost any combination of color, shape, and geometry is available
- > Materials listed on specifications for leading automotive and electronic manufacturers
- > Listings to UL 50 and UL 94



Foam gaskets | Perfect protection and exceptionally easy handling

Innovative sealing systems that live up to the highest standards

Protecting components from moisture, dust, dirt, wet conditions, and other influences is the fundamental challenge for sealing systems.

RAMPF Polymer Solutions is a leading developer and manufacturer of liquid to highly thixotropic foam gaskets based on polyurethane and silicone. The product lines of the RAKU® PUR and RAKU® SIL brands represent the pinnacle of automated sealing boasting great productivity, exceptional performance, and consistent high quality. Leading manufacturers around the world have made automated RAMPF sealing systems the industry standard.

Industries and applications:



ELECTRICAL AND ELECTRONICS INDUSTRY

- Industrial lighting (indoor, outdoor)
- Offshore
- Control cabinets and electrical enclosures



E-MOBILITY AND AUTOMOTIVE

- Battery covers
- Brake and tail lights
- Chargers
- Loudspeakers
- Fuse boxes
- Door modules



HOUSEHOLD APPLIANCES INDUSTRY

- Enclosures (refrigerators, washing machines, vacuum cleaners, dishwashers, and much more)
- Hobs, air ducts, recuperators, and much more



PACKAGING INDUSTRY

- Lids for steel and plastic drums
- Steel cans, IBCs



+ YOUR BENEFITS

- > More than 40 years of experience in developing and marketing innovative electro casting resins
- > Broad spectrum of properties optimized to your requirements
- > Our products conform with RoHS and fulfill the highest requirements of test standards and listings, e.g. UL 94, RTI, and OBJS2
- > Listed with leading manufacturers in the automotive and electronics industries



Electro casting resins

High power and high performance

Wide range of products for the reliable protection of sensitive components

Electro casting resins are key to the ongoing development of numerous industries. The automotive, energy, automation, and household goods industries are all heavily dependent on technical advances in the storage and transportation of electrical energy.

One- and two-component electro casting resins from RAMPF Polymer Solutions boost reliability and performance while also ensuring cost-efficiency and a long service life. They reliably and efficiently protect your components (transformers, control units, inverters, motors, etc.) against chemical substances and environmental influences such as heat, cold, and moisture.

Customers using our products based on epoxy (RAKU® POX), polyurethane (RAKU® PUR), and silicone (RAKU® SIL) include leading manufacturers in the automotive and electronics industries.

Industries and applications:



AUTOMOBILE-ELECTRONIC

- Sensors
- Ignition coils
- Control units



E-MOBILITY

- Gapfillers
- Power electronics
- Battery electronics



MOTORS

- Industrial fans, household appliances, hard drive power units, vehicles, and industrial machinery



TRANSFORMERS

- Smart tvs und computers
- E-mobility und automotive



+ YOUR BENEFITS

- > Great variety of products with a broad spectrum of properties and outstanding quality
- > Tailored solutions that meet your specific requirement profile
- > Solvent and water-free systems available
- > The material processing properties are matched to your production process creating space and energy savings throughout your plant

Adhesives | Strong products for strong bonds

High-quality adhesives for a wide range of materials

Adhesive bonding is the key technology of the 21st century. Why? Because adhesive technology has clear advantages over other joining processes. Adhesives can be used to create durable bonds between very different materials. The key to ensuring a secure bond is to rigorously prepare the bonding point and then precisely mix and apply the adhesive. Achieving the best possible quality requires expertise and a perfectly coordinated process.

Our adhesives hold together what belongs together. Whether it's polyurethane, silicone, epoxy, or reactive hotmelt adhesives – the encompassing RAMPF Polymer Solutions product portfolio has the best solution for your application.

In addition to perfect adhesion and strength, our systems boast outstanding temperature and chemical resistance. They can also be formulated and manufactured to exhibit a wide range of properties, meaning they can be adapted to diverse requirements. They are easy to process and work extremely well on wood, plastic, acrylic glass, aluminum, and other mineral-based materials.

Industries and applications:



AUTOMOBILE AND VEHICLE INDUSTRY

- Interior and exterior
- Panels
- Flocking
- Control units and many more



HOUSEHOLD APPLIANCE INDUSTRY

- Decorative panels
- Panels
- Sight glass
- Oven doors and many more



INDUSTRIAL ADHESIVES

- Adhesives with very short to long open times for indoor and outdoor applications
- Facade elements in buildings



SANDWICH STRUCTURES

- Vehicle construction
- Partition walls in wet rooms
- Facade elements in buildings

+ YOUR BENEFITS

- > Skills and experience in a wide range of applications and numerous markets
- > Reliable protection – also with extreme loads
- > Process-optimized material properties
- > Comprehensive support in product selection or development, as well as process support and process optimization



Casting Resins and Elastomers

Durability meets versatility

Reliability and safety for a wide range of applications

At RAMPF, Casting Resins and Elastomers stands for highly resilient elastomers, customized casting and construction materials, and a wide-ranging portfolio of innovative reactive resins.

RAKU® PUR (polyurethane), RAKU® POX (epoxy), RAKU® SIL (silicone), and RAKU® MELT (hotmelt adhesives) systems are used in a variety of applications across the globe. Our versatility means we are much in demand as a solution partner. We develop our products to suit your specific requirements regarding material properties and processing procedures.

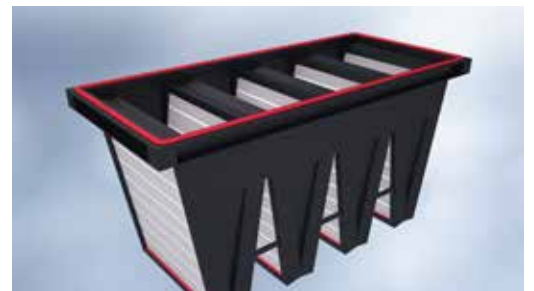
Together with application expert RAMPF Production Systems, we develop products for both the simplest manual mixing and dispensing systems and highly automated dispensing technology.

Industries and applications:



CORNER ANGLE BONDING

- Aluminum windows, doors, and frames



FILTER INDUSTRY

- Industrial filters
- Air and HEPA filters
- Oil and hydraulic filters



EDGE CASTING

- Laboratory furniture
- Doors and furniture for the household sector, hospitals, schools, and kindergartens



WET CAST MOLDS

- Concrete molded parts
- Forms for natural stone imitations





SERVICES

Customer-oriented. Skilled.
Committed.



+ YOUR BENEFITS

- > People come first – trusting and successful cooperation with customers is a top priority
- > Customer-focused and progress-oriented – we work with our customers to develop the solutions of the future
- > Comprehensive customer advice and cross-process expertise
- > Material, plant, and process technology from a single source – RAMPF offers a full range of services
- > Many years of experience in processing technologies such as foaming, casting, bonding, coating, and spraying

Comprehensive support

From concept to finished product

Materials, processing, consulting –
your end-to-end partner

RAMPF offers its customers complete support – from product development to market launch:

LABORATORY AND APPLICATION TECHNOLOGY

- Initial consultation on selecting the most suitable material and processing procedure
- Customized development of your material or adaptation of a product from our comprehensive portfolio
- Application engineering consultation for component design and manufacture of sample parts in near-series conditions
- Manufacture of prototypes

PROCESSING EXPERTISE

- Support and consulting for applications as well as process development and optimization
- Encompassing machinery pool for conducting near-series customer trials
- Mixing and dispensing systems from RAMPF Production Systems for processing one- two- and multi-component materials

AFTER-SALES SERVICE AND TRAINING

- Our customer service does not end with the start of series production: technical field representatives, application technicians, and product developers are all at your service
- The RAMPF Academy offers product and application training courses that emphasize on sharing experiences

Think global | Act local

With production on three continents and sales partners worldwide, we are always there for our customers – wherever they are

RAMPF thinks globally and acts locally. In addition to our state-of-the-art production facility in Grafenberg, our products are also manufactured at key strategic sites in the United States and China.

No matter where they are produced, the same applies – when it says RAMPF, it is RAMPF. The highest standards of quality apply to our production in both the United States and China, which has helped our facilities become very successful. Our foreign subsidiaries RAMPF Group, Inc. (USA) and RAMPF (Nantong) Co., Ltd. (China) are experiencing rapid growth, and ever more customers are placing their trust in RAMPF quality.

Of course, there is more to it than just production standards. The high quality of RAMPF products is also based on first-class advice and a comprehensive array of services.

This strategy is also supported by our global network of sales partners and experts at our sales offices in the United States, China, and Japan. They ensure our customers receive rapid and expert advice – no matter where they are and which industry they represent.





+ YOUR BENEFITS

- > Global presence of our products and our experts
- > High level of flexibility in production
- > Short delivery times
- > Comprehensive consultation

We are inventors. Team players. And a strong partner.

RAMPF – a global market-leading specialist in custom chemical and engineering solutions

We are experts for reactive resins, machine systems, and lightweight composite construction solutions.

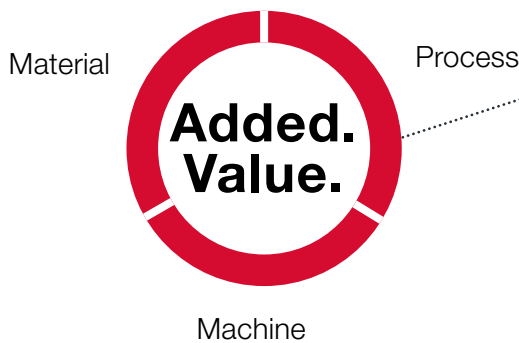
Our mission – discover the future.

In partnership with our customers, we develop tomorrow's products and tailored solutions today – for the decisive competitive edge.

Over the last 40 years, we have grown from an inventive one-man business into an international medium-sized group of companies, with operations at twelve locations on three continents.

Now run by the next generation of our family, the business still maintains the same fundamental values – being a trustworthy and reliable partner for our customers and our employees. This is the only way to build lasting, successful partnerships.

At RAMPF, innovation and tradition go hand in hand. We are one big family, focusing on the future with a sustainable, value-adding approach, and are very much aware of the social and environmental responsibilities associated with our business activities. That is why we are committed to promoting a respectful and appreciative way of dealing with one another.



**RAMPF – Engineering and Chemical Solutions.
Utilize our wide-ranging innovative potential
for Added.Value.**

Founded as a
One-man Business

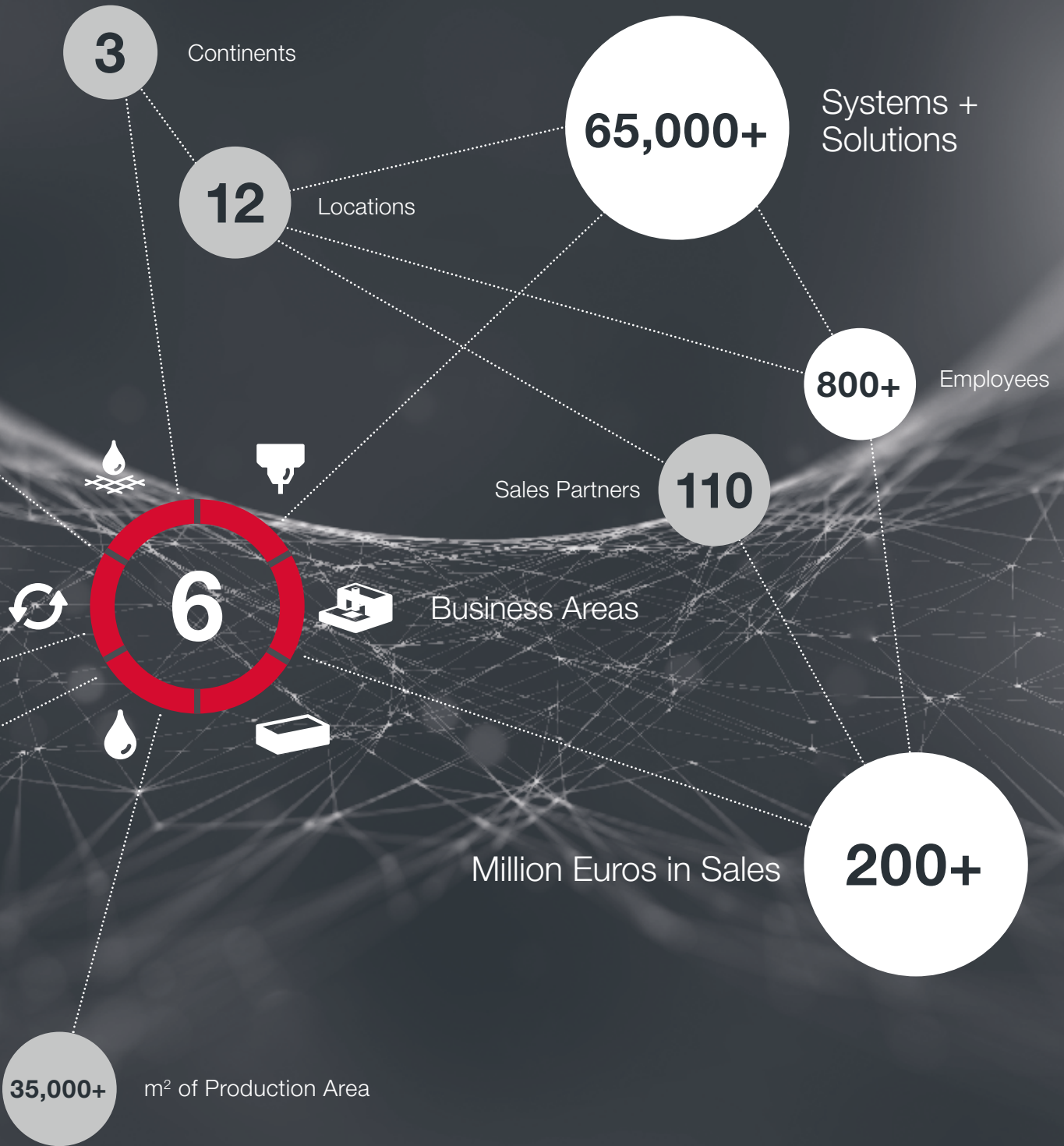
1980

Second-generation
Family Company

2

m² of Laboratories

3,000+





RAMPF –

discover the future

Developing the Solutions
of Tomorrow – Today.

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Mass production?

Not at RAMPF.

**We engineer
made-to-order solutions.**

