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RAMPF (Nantong) Co., Ltd

# EPUMENT

Mineral casting for cutting-edge machine beds and components

# RAMPF

## #DiscoverTheFuture



### Chemical and Engineering Solutions

-   
 Machine Systems
-   
 Production Systems
-   
 Composite Solutions
-   
 Eco Solutions
-   
 Advanced Polymers
-   
 Tooling Solutions

RAMPF Machine Systems is a company of the international RAMPF Group.  
Find out more on page 16.

# RAMPF (Nantong) Co., Ltd

## Chemical and Engineering Solutions

**RAMPF (Nantong) Co., Ltd, based in Nantong is the Chinese subsidiary of the International RAMPF Group.**

The product portfolio of RAMPF (Nantong) Co., Ltd is comprised of:

- > Machine bases, machine frames, and other structural components made of mineral casting, hard stone, and metal shell constructions
- > Two-component polymer systems based on polyurethane, epoxy, and silicone
- > Modeling & mold engineering materials

The international RAMPF Group based in Grafenberg, Germany, 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 six core competencies and more than 900 employees. RAMPF thinks globally and acts locally. The Group has production facilities strategically located in Germany, the United States, Canada, China, Japan, and Korea.





# Your industry | Your application

Quality. Progress. Performance.

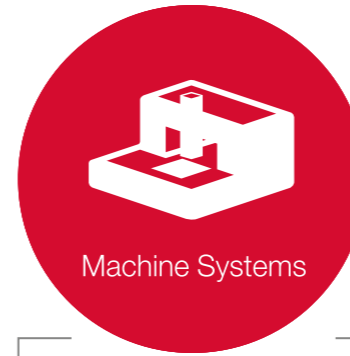
- |  |   |  |
|--|---|--|
|  BATTERY PRODUCTION     |  DISPLAY TECHNOLOGY                            |  DISPENSING TECHNOLOGY  |
|  ELEKTRONICS PRODUCTION |  GRAPHICS MACHINERY                            |  WOODWORKING MACHINERY  |
|  POWER MACHINES         |  LASER APPLICATION                             |  FOOD TECHNOLOGY        |
|  MEDICAL TECHNOLOGY     |  MEASURING, TESTING, AND INSPECTION TECHNOLOGY |  MICROPRODUCTION        |
|  OPTICS PRODUCTION      |  PICK & PLACE APPLICATIONS                     |  SOLAR MODUL PRODUCTION |
|  TEXTILE MACHINERY     |  PACKAGING MACHINERY                          |  MACHINE TOOLS         |





## Products and services

Development partner and system supplier of complete machine bed solutions and machine systems



### MATERIALS

**EPUMENT®, EPURAM**  
Mineral casting

**EPUDUR**  
Ultra-high precision concrete

**EPUSTONE**  
Hard stone

**Innovative, high-performance, sustainable:**

RAMPF Machine Systems develops and produces alternative materials for machine beds and machine bed components for highly dynamic production technology.

### TECHNICAL PRODUCTION SYSTEMS

**EPUCRET®**  
Machine beds for state-of-the-art production technology

**EPUTRONIC**  
Positioning and moving systems

**Productivity, precision, mechatronics:**

RAMPF Machine Systems develops, produces and installs machine beds as system solutions, as well as complete, customer-specific positioning and moving systems.

### SERVICES

**EPUDSIGN**  
Design, construction, and calculation

**EPUFILL**  
Composite structures

**EPUGRIND**  
Contract precision grinding

**EPUSELF**  
Do-it-yourself systems

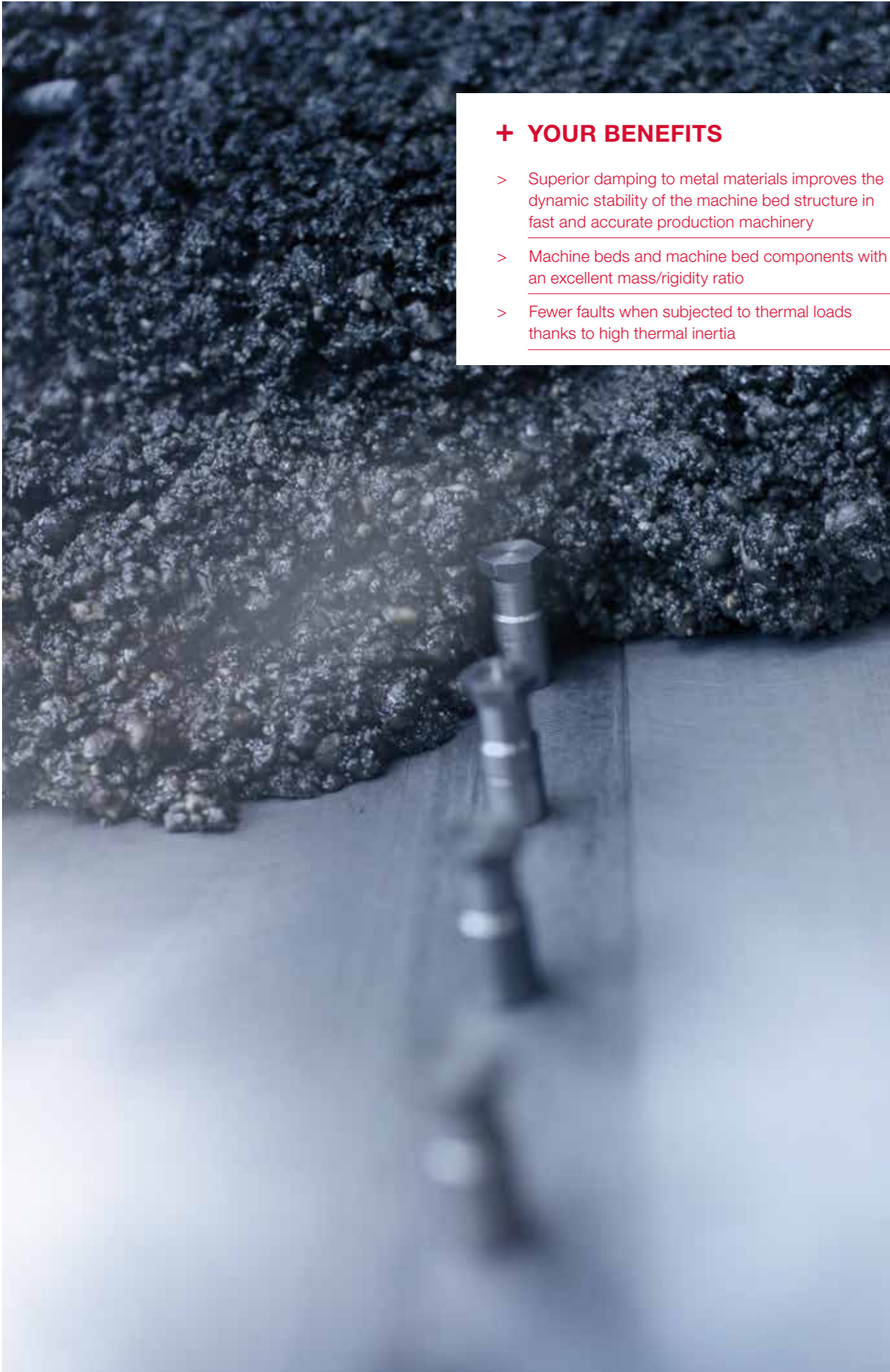
**EPUSERVICE**  
Service, maintenance

**EPUTOOL**  
Tools for machine bed components

**Customer-oriented, skilled, committed:**

RAMPF Machine Systems is the end-to-end development partner and service provider for innovative production technology solutions – from the machine base to basic machines.





- + YOUR BENEFITS**
- > Superior damping to metal materials improves the dynamic stability of the machine bed structure in fast and accurate production machinery
  - > Machine beds and machine bed components with an excellent mass/rigidity ratio
  - > Fewer faults when subjected to thermal loads thanks to high thermal inertia

## EPUMENT® Mineral Casting

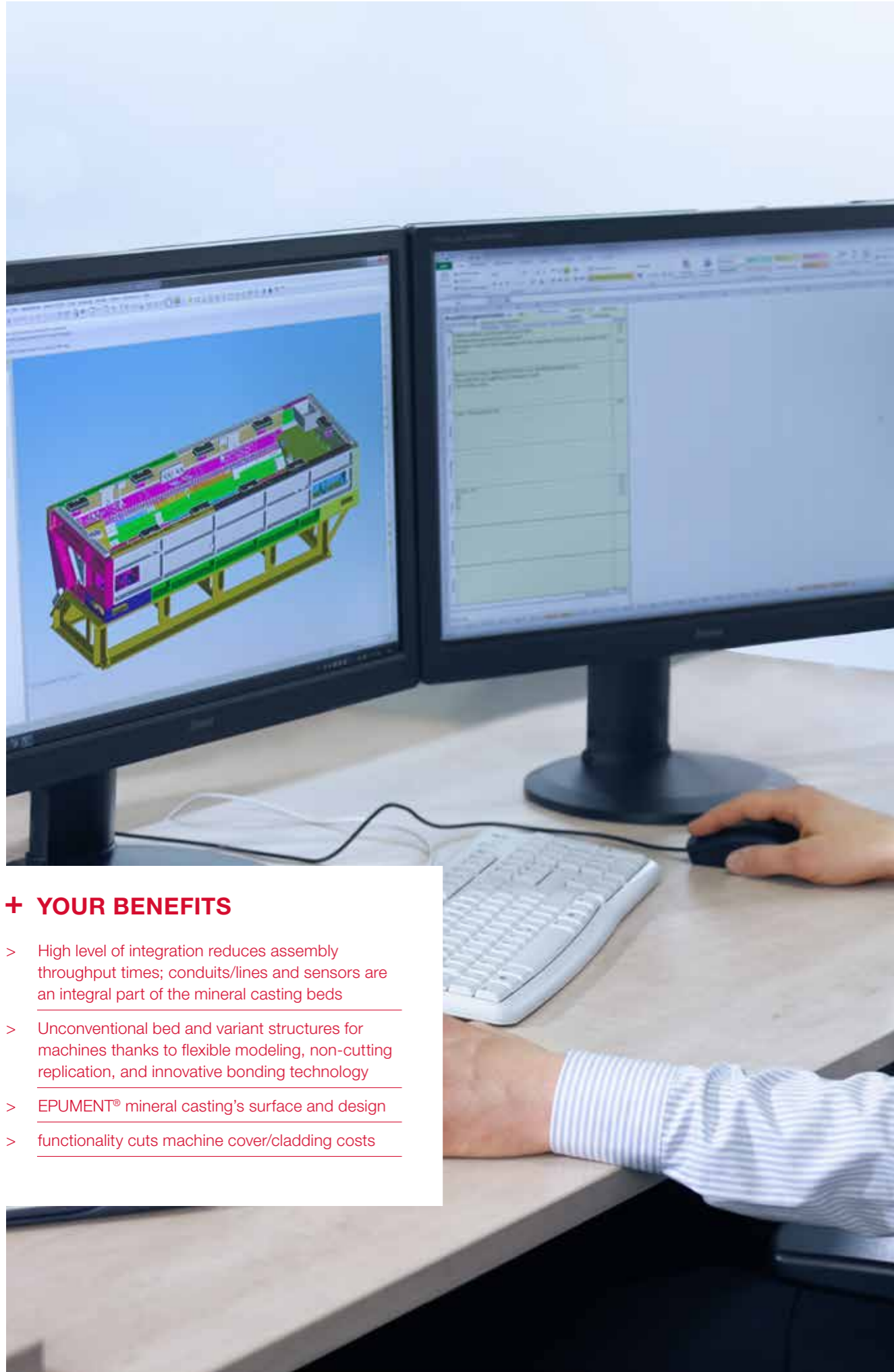
A vibration-damping machine bed material for highly dynamic mechanical engineering applications and technologies

EPUMENT® mineral casting is a high-tech material that is perfect for the primary machine bed functions, such as precisely securing the geometric position of the individual machine elements, and the static, dynamic, thermal, and acoustic absorption of forces and moments.

It boasts high media resistance, e. g. to cutting oils and coolants, flawless ecological credentials thanks to resource-saving manufacture, and environmentally sound disposal and recycling options.







## EPUMENT® | Engineering, design, modeling

### Services for material-specific design of mineral casting beds and bed components

RAMPF is the end-to-end development partner for system solutions made of EPUMENT® mineral casting — from material-specific design and engineering to FEM modeling and the design of casting molds, replication gauges, and fixtures.

Low casting temperatures combined with innovative precision and bonding technologies produce precise machine components with high functionality and an exceptional level of integration.

#### + YOUR BENEFITS

- > High level of integration reduces assembly throughput times; conduits/lines and sensors are an integral part of the mineral casting beds
- > Unconventional bed and variant structures for machines thanks to flexible modeling, non-cutting replication, and innovative bonding technology
- > EPUMENT® mineral casting's surface and design
- > functionality cuts machine cover/cladding costs







## EPUMENT® | Production, accuracy, precision assembly

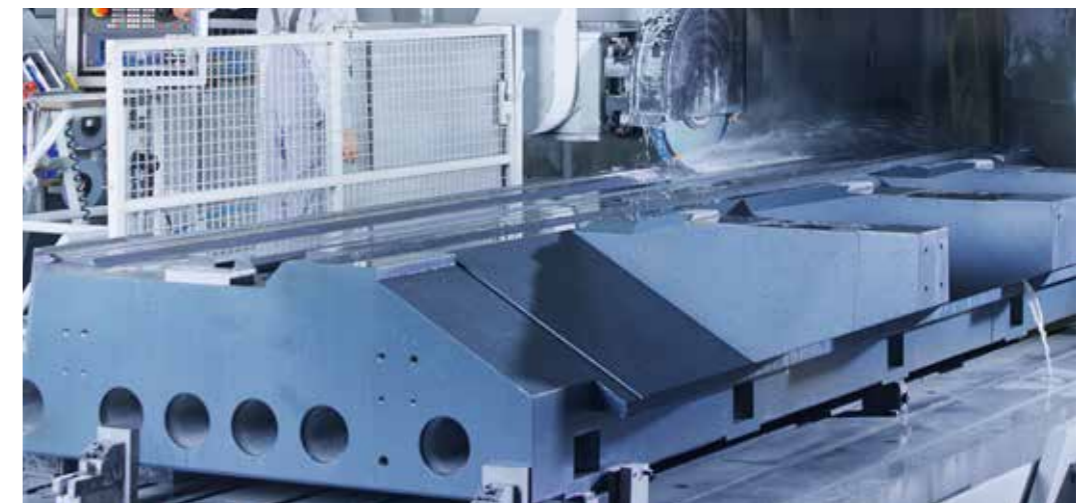
Complete service offering with ready-to-use mineral casting bed as a system solution

RAMPF Machine Systems is the system supplier of complete mineral casting beds with high-performance production technology. State-of-the-art foundry equipment, climate-controlled replication halls, and an in-house precision grinding center underline the outstanding position of the world market leader.

Based on the latest technologies and a reliable quality assurance system to ISO 9001 : 2008, the company supplies complex mineral casting structures and assemblies with excellent dimensional accuracy, top quality, and the best possible price/performance ratio.

### + YOUR BENEFITS

- > Shorter assembly times in production thanks to optimum accuracies and a high level of finishing; guides and other machine elements are already fitted with high precision
- > High availability and short delivery times thanks to three self-sufficient production plants located across the globe
- > Low tooling costs due to the impressive service lives of molds and gauges







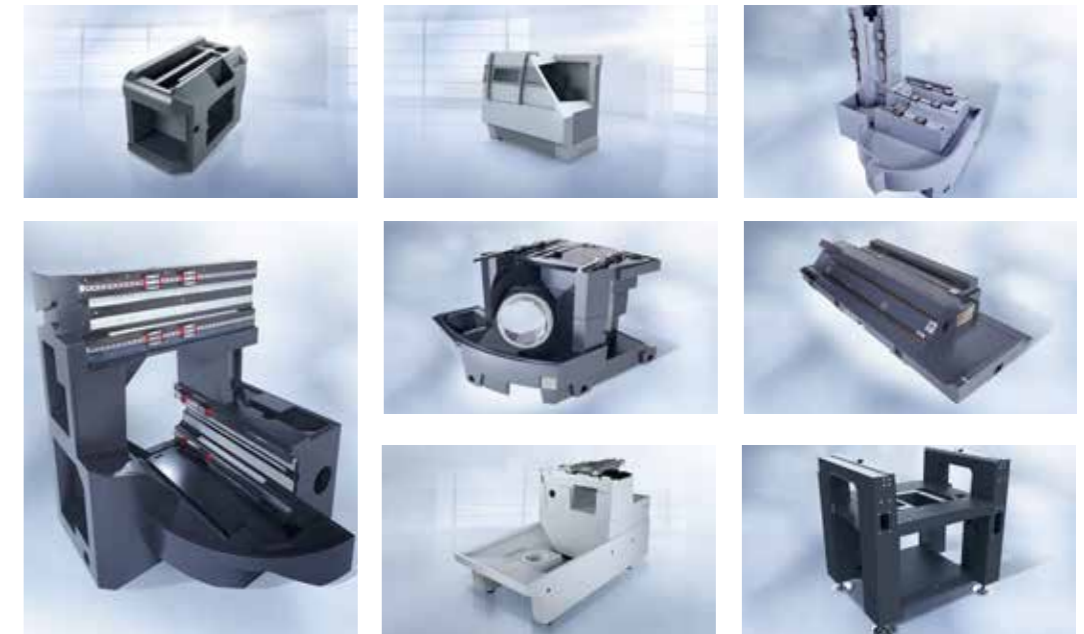
## EPUMENT® | Industrial applications and references

for machine beds and components made from mineral casting

Machines have a bed base, regardless of whether they form, remove, join, apply, assemble, test, or install materials.

Today's production equipment needs to satisfy growing demands in terms of process accuracies under static, dynamic, and thermal loads. Machine beds and machine bed components made from EPUMENT® mineral casting play a key role in meeting these high expectations thanks to their minimum deformation under maximum loads.

Every working day, up to 20 mineral casting machine beds with unit weights of between 200 kilograms and 20 metric tons leave our facilities.





# 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.

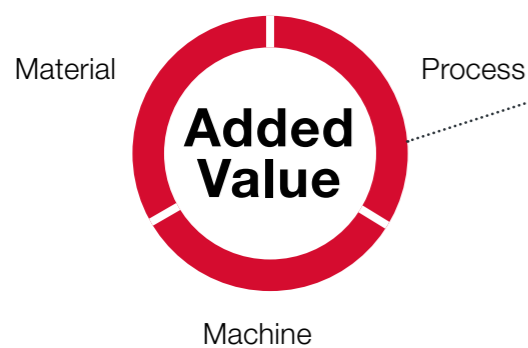
Our mission – discover the future.

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

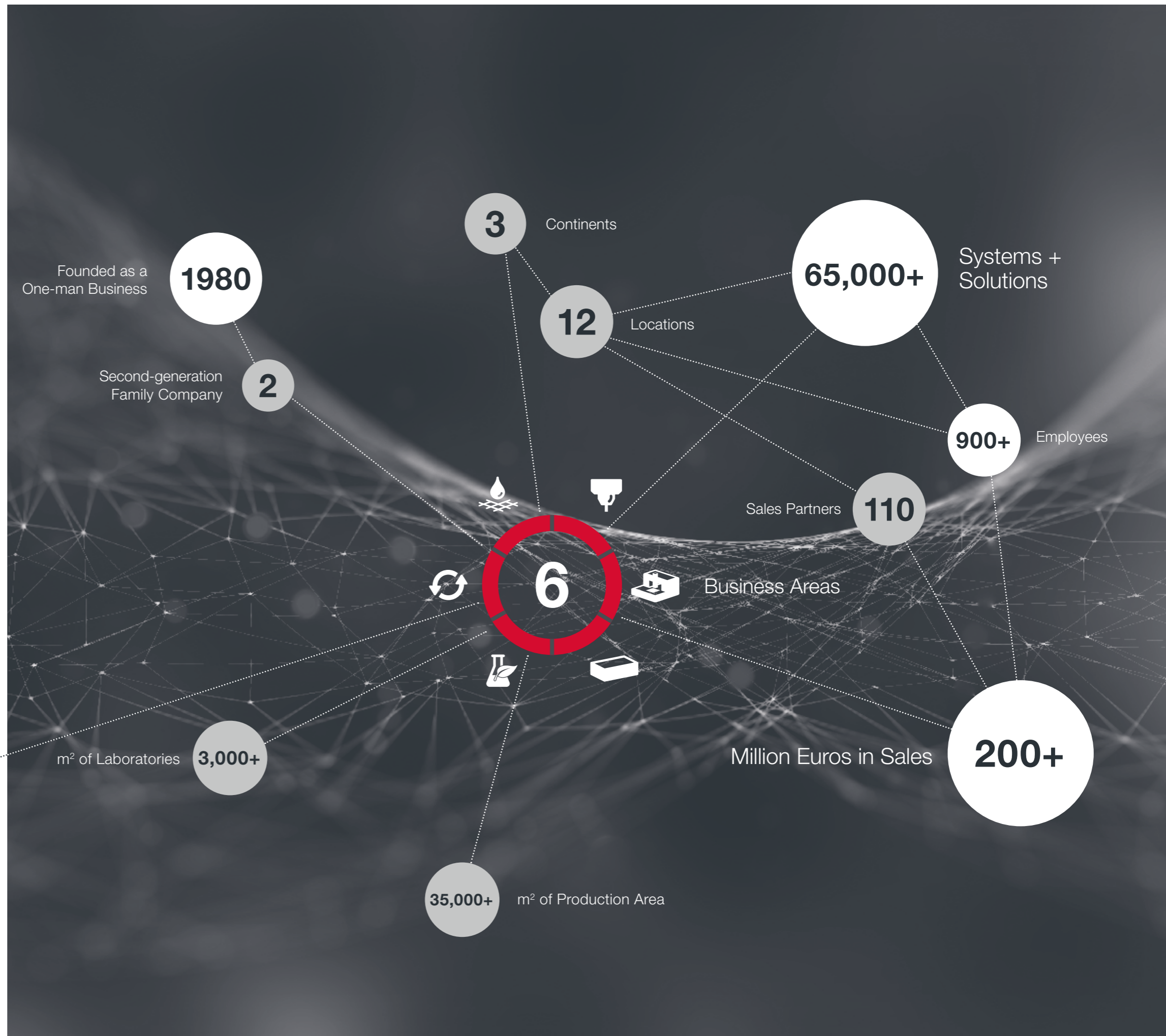
Over the past 40 years, we have grown from an inventive one-man business into an international medium-sized group of companies, with operations at twelve locations on three continents.

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





**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.**



