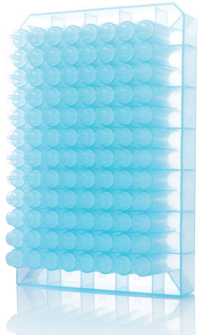


Discover what's behind it.



LABORATORY SUPPLIES
AND DIAGNOSTICS



PHARMACEUTICAL
PACKAGING



MEDICAL
TECHNOLOGY



FUNCTIONAL
PARTS

This is what's behind it:
Plastic expertise in every respect.



A family-owned company _____ 4-7



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A family-owned company



A total of 137,188 m² of floorspace worldwide, one objective: **100% reliability.**



Since its foundation in 1949, Pöppelmann has grown steadily. The 50 m² of space occupied when the company was founded had expanded to 9,145 m² by 1974 – while the company today serves customers in over 70 countries. However, the secret of our success has remained unchanged through the years: Fulfilling the wishes and requirements of our customers has always been the sole focus of our efforts.



[1] Plant 1: Pöppelmann GmbH & Co. KG, Kunststoffwerk-Werkzeugbau, Lohne **[2]** Plant 2: Pöppelmann Kunststoff-Technik GmbH & Co. KG, Lohne **[3]** Plant 3: Pöppelmann GmbH & Co. KG, Lohne **[4]** Plant France: Plastiques Pöppelmann France S.A.S., Rixheim **[5]** Plant USA: Pöppelmann Plastics USA LLC, Claremont, NC

The experts for reliability: Functional parts and packaging from Pöppelmann FAMAC®.

Pöppelmann FAMAC® develops and manufactures plastic functional components and packaging for the food, pharmaceutical, cosmetic and medical industry. To this end, the implementation of a quality management pursuant to DIN EN ISO 9001:2008 and DIN EN ISO 13485:2010 and of a hygiene management system in accordance with the Codex Alimentarius has been certified by an independent institute.

Since 1949, Pöppelmann has been a successful family-owned company. And your strong and reliable partner.

Pöppelmann at a glance:

- ⊕ More than 1,650 employees worldwide,
- ⊕ 5 production sites,
- ⊕ 450 plastics processing machines,
- ⊕ 4 areas of operation: FAMAC®, K-TECH®, KAPSTO®, TEKU®,
- ⊕ 160 apprentices,
- ⊕ customers in over 70 countries,
- ⊕ 75,000 pallet positions.



PÖPPELMANN

We will be happy to advise you: +49 4442 982-3900

FAMAC®

Supporting you in every phase of your project: The FAMAC® Team.



We look forward to working closely with you: +49 4442 982-3900.

Our success has many faces: Human resources development at Pöppelmann.



More than 1,650 Pöppelmann employees stand for productivity, quality and service.



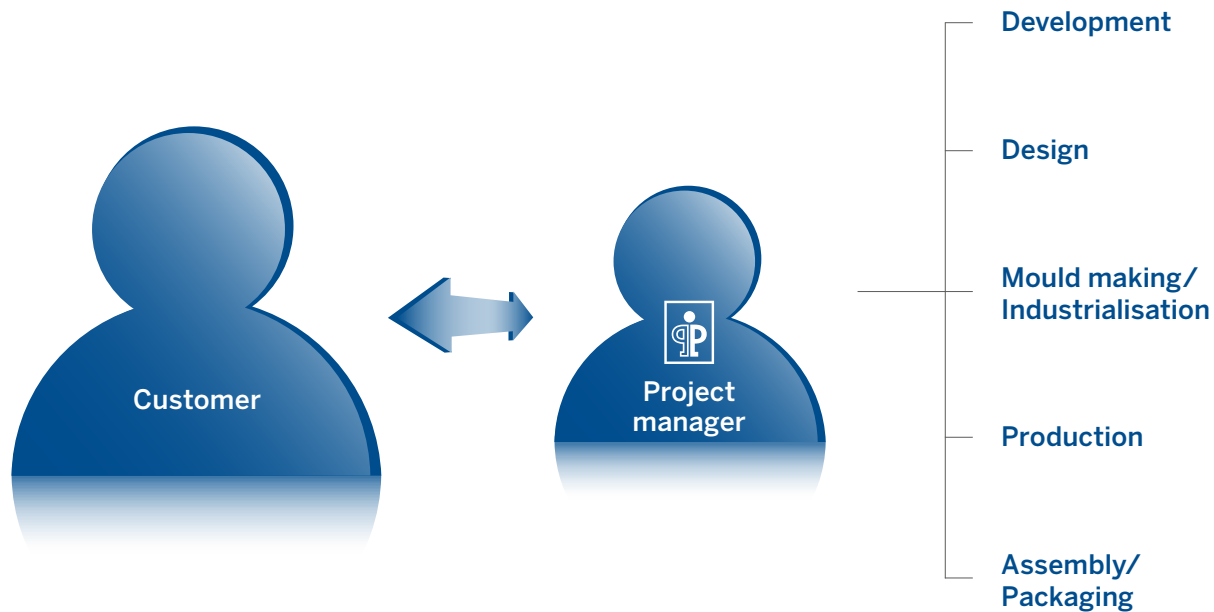
Working methods and technologies

One team, one objective: **Perfect solutions.**

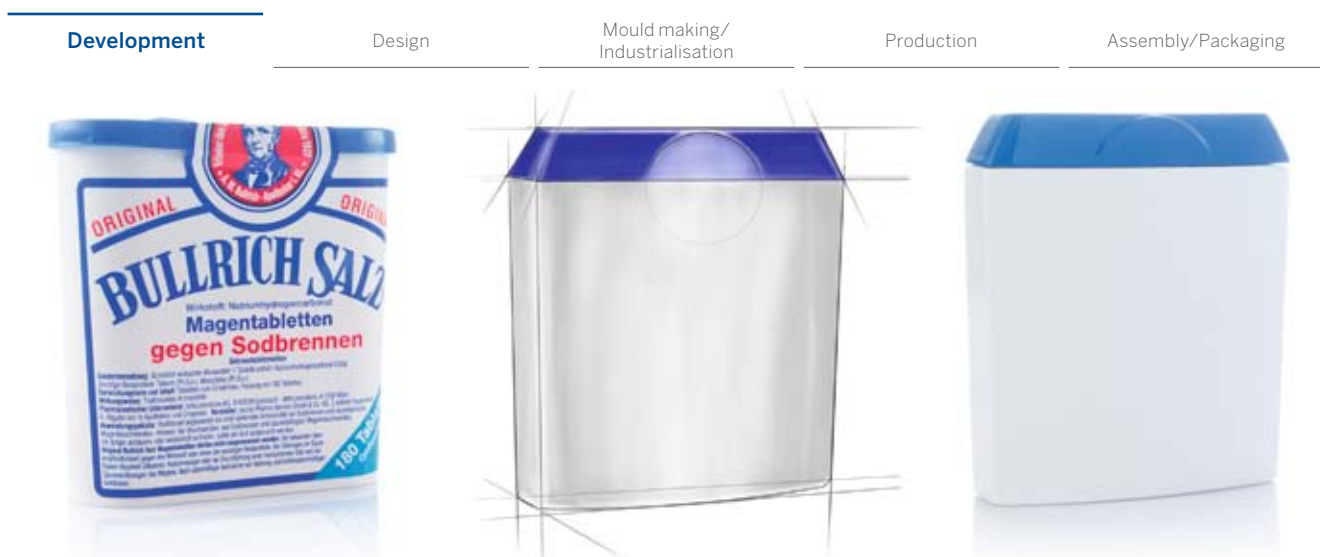
Long-term, good and successful partnerships with our customers are the basis for solutions that meet highest standards. Factors of our success include our leadership in the technological field, our know-how as well as our professional process planning. It's the reliability of our methods that makes us reliable for our customers.



The FAMAC® approach: **Efficient and certain – from development to packaging.**



Our project managers – looking after your best interests: Staff at Pöppelmann FAMAC® know which partners are best suited to particular tasks. As part of the Pöppelmann group, we can also draw on the full spectrum of resources and contacts. The result: **Economically optimised solutions** for you.



Your **design** and functionality demands are the basis of our research and development. Together we can **optimise products** to purpose, to meet your requirements.



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FAMAC®

Professional implementation: The design.

Development

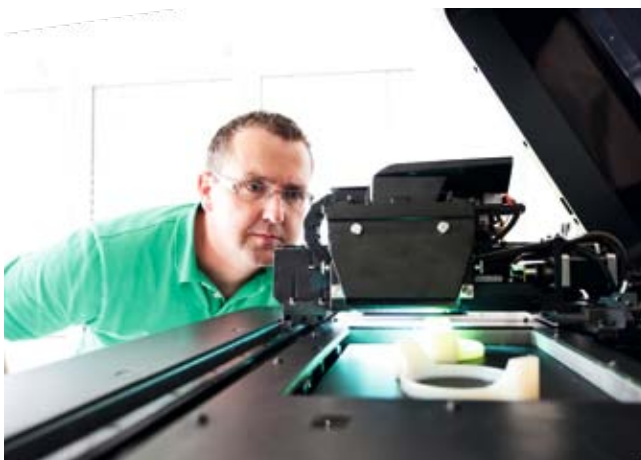
DesignMould making/
Industrialisation

Production

Assembly/Packaging



Your development partner for short development times, purpose oriented product optimisation and reliable process planning. All to your competitive advantage. From the very beginning, quality and costs remain in safe hands.



Faster and more cost-effective results: With rapid prototyping using stereo lithography and selective laser sintering as well as PolyJet-Matrix technology.



A more efficient way of designing high-performance moulds: Combining moldflow analyses with decades of mould-making experience.



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Contact, product research and request for samples: www.poeppelmann.com

FAMAC®

Guaranteeing you a competitive edge: In-house mould making.

Development

Design

**Mould making/
Industrialisation**

Production

Assembly/Packaging



Approx. **60 CAD workstations.**



Precision as a basis for challenging plastic components and a prerequisite for error-free production.



Economical tools for pilot and pre-series production ensure manufacture of sample models that are close to production conditions.


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We will be happy to advise you: +49 4442 982-3900

FAMAC®

Development

Design

**Mould making/
Industrialisation**

Production

Assembly/Packaging



A high degree of flexibility, know-how and shorter reaction times in terms of mould construction, alterations and repairs.



The highest possible precision of man and machine makes complicated moldings reality.



People make the difference: Our employees stand for technical workmanship.



PÖPPELMANN

Contact, product research and request for samples: www.poeppelmann.com

FAMAC®

Best performance in series: The high-tech series production.

Development

Design

Mould making/
Industrialisation**Production**

Assembly/Packaging



Consistent quality, high production capacity and excellent cleanliness characterize our production for GMP-class E. Modern machines offer clamping forces between 250 kN and 13.000kN is characteristic of reliable series production.



Central underfloor delivery of material, cooling water, compressed air and energy.



Centralized material supply for injection-moulding machines, fully automatic and individually programmable for each machine.



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We will be happy to advise you: +49 4442 982-3900

FAMAC®

DIN EN ISO 14644 class 7, GMP standard – C: The Cleanroom Production.

Development

Design

Mould making/
Industrialisation**Production**

Assembly/Packaging



Clean air is supplied to the mould area via a **laminar flow unit**. After demoulding, good parts drop onto a fully enclosed conveyor belt suitable for use in cleanrooms. Optionally, a handling robot may be used to demould complex or sensitive parts and to place them on the conveyor belt.



The injection moulded parts are transported on conveyor belts into the cleanroom for further assembly and packaging – if necessary with separation of cavities.



There, they are **individually packaged in special cleanroom bags**.


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Contact, product research and request for samples: www.poeppelmann.com

FAMAC®

The proper solution for each product: Production technologies.

Development

Design

Mould making/
Industrialisation**Production**

Assembly/Packaging



Economically efficient production using the **2-component injection moulding process**: One production sequence, no additional assembly.



Stack moulds: We use moulds with up to 128 cavities.



Even more precise. Even faster. Even more efficient.
In-Mould-Labeling.



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FAMAC®

Efficiency is better: **Assembly and Packaging.**

Development

Design

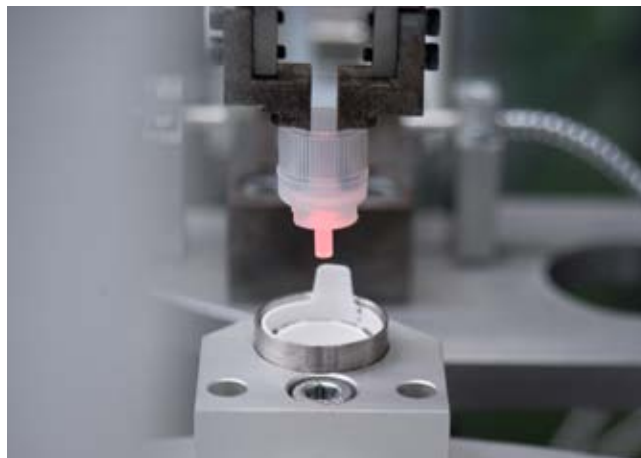
Mould making/
Industrialisation

Production

**Assembly/
Packaging**



Removal.



Assembly.



Primary packaging.



Packaging.



Labelling.



Secondary packaging.

Certification

for the scope
development, manufacturing and distribution of
plastic functional parts and components for the medical device and IVD
2893 Lohne
Germany

development, manufacturing and distribution of
plastic functional parts and components for the medical device and IVD
has introduced and applies a

Quality Management System

The mdc audit has proven that this quality management system
meets all requirements of the following standard
for the scope

EN ISO 13485

Medizinprodukte - Qualitätsmanagement
Anforderungen für Hersteller
EN ISO 13485:2012



Quality management system

100% quality, one effect: **Long-term cooperation.**

A systematic approach to every new development is standard at FAMAC®. Our certified quality management system guarantees security and safety in every respect. This is how partner cooperation turns into mutual, long-term success.



From development to production: The continuous quality management.



Design Qualification: From the very beginning of component development right up to the release of the implemented and final mould, the highest technological and quality demands are made. In four steps, all industrialised stages of the manufacturing process are examined, documented and qualified. The demands on the part are laid down in the specification document and implemented using the appropriate mould concept.



Installation Qualification: After completion the next step is checking whether it has been built in accordance with the specifications of the DQ. Parallel test plans are carried out in coordination with the customer.



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Operational Qualification: This phase serves to identify a safe process window. Process parameters are identified and documented (e.g. ISIR, MFU) in terms of their impact on the part by "DOE testing" ("Design of Experiments"). As part of this "functional qualification" both the efficiency of the mould, as well as its machine-suitability are examined.



Performance Qualification: This qualification step makes the process and the parameters of its influence as well-known as possible. The process capability of the component is determined and assessed. After completion of the PQ follows the approval for serial production.



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FAMAC®

Completely reliable: Our certified quality management.



You can count on us to meet agreed quality targets. **Application of a quality management system pursuant to DIN EN ISO 13485:2010.** In addition, testing by means of 3D-coordinates - and multi-sensor-metrology: **optical and tactile measuring.**



Identification of **opening and extraction forces.**



Special tests: certification of childproof closures by an independent institute.



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We will be happy to advise you: +49 4442 982-3900

FAMAC®



Incoming inspection: Differential Scanning Calorimetry (DSC). **thermal analysis of materials.**



Secured raw-material supply and batch tracing by means of dual-chamber silos.



75,000 pallet positions – you can rely on time deliveries.



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Contact, product research and request for samples: www.poeppelmann.com

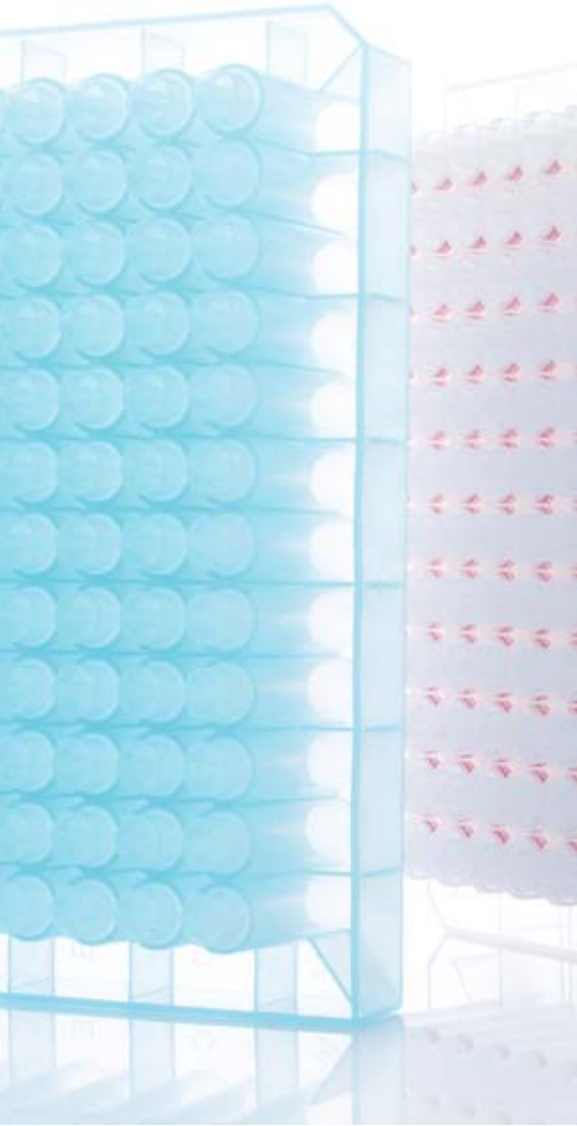
FAMAC®



FAMAC® references

Many ideas, one concept: **Maximum versatility.**

Whether classic tablet tubes or more complex custom-manufacture, the following pages offer a first impression of the versatile solutions we offer. Should you have any questions or special demands, we look forward to hearing from you: +49 4442 982-3900.

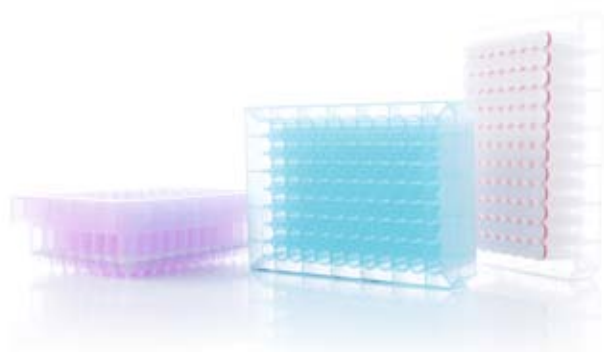


Special products: diagnostics.



Scan the QR code to discover all packaging dimensions as well as further information.

www.poeppelmann.co.uk/famac



Filter plates.



Luer plates.



Reaction vessels.



Spin columns.



PÖPPELMANN

We will be happy to advise you: +49 4442 982-3900

FAMAC®



Spin columns with retainer rings and holder.



Vessels for sample purification.



Laboratory vessels, with and without lids, for centrifugal use.

Special products: Pharmaceutical packaging.



Scan the QR code to discover all packaging dimensions as well as further information.

www.poeppelmann.co.uk/famac



Packaging with pre-kitted bottom compartment and hinged lid with tamper-evident seal.



Packaging with hinged lid and cover with tamper-evident seal.



Protective caps with tamper-evident seal.



Pharmacist-jars with screw cap, optionally with tamper-evident seal.



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We will be happy to advise you: +49 4442 982-3900

FAMAC®



Inhaler with individual components.



Functional components for nasal.



Globule dosers and fluid droppers.



Globule dispenser.

Also available as standard programme:



Scan the QR code to discover all packaging dimensions as well as further information.

www.poeppelemann.co.uk/famac



Tube caps and threaded rings.



Tablet tubes.



Dropper inserts and screw caps with tamper-evident seal (with and without childproof closure).

Special products: Medical Technology.



Scan the QR code to discover all packaging dimensions as well as further information.

www.poeppelmann.co.uk/famac



Inhalation masks for children.



Components for endoscopy instruments.



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FAMAC®



Rack for spin columns.



Chip packaging.



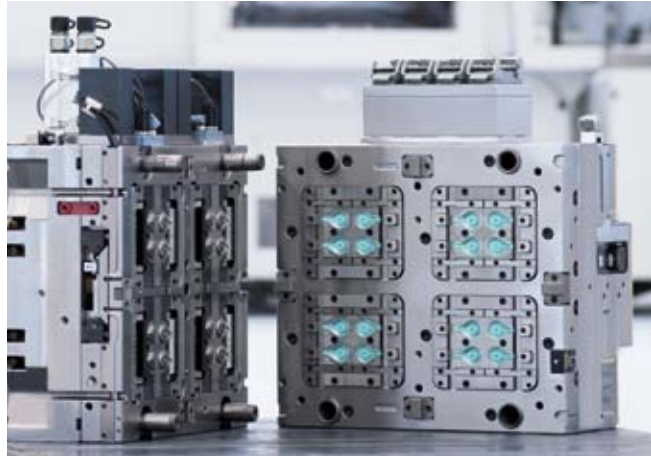
Vacuum chamber manufactured in assembled injection-moulding.



Special products: Functional parts.



Scan the QR code to discover
all information.
www.poeppelmann.co.uk/famac



Functional parts for pumps.



Functional parts for pumps.



PÖPPELMANN

We will be happy to advise you: +49 4442 982-3900

FAMAC®



Lotion pump with individual components.



Protective caps.



Dispensing heads.



Nozzle caps.



Foam dispenser heads.



Screw and snap housings.



Plastic. It's what we do.

Introducing a successful family-owned company: Since 1949, Pöppelmann has developed five production sites with 450 injection moulding and thermoforming machines and extruders to become one of the leading manufacturers in the plastics processing industry. Quality "made by Pöppelmann" is held in high esteem in more than 70 countries. And across the most diverse industries: We supply the commercial horticulture sector with plant pots and cultivation systems. We are also partners to numerous companies in the fields of mechanical and machine engineering, the automotive, electrical, solar, food and beverage, chemical, pharmaceutical, cosmetics and medical industries, as well as surface engineering and the instrumentation and control industry.



Discover the world of Pöppelmann online at:
www.poeppelmann.com

Additional Pöppelmann FAMAC® areas of expertise:



Packaging
Standard programme.



Special products.



Dispensing, dosing, pouring
Standard programme.



Special products.



PÖPPELMANN

We will be happy to advise you: +49 4442 982-3900

FAMAC®



Household goods
Standard programme.

Customised products.

Pöppelmann KAPSTO® and K-TECH®.



Pöppelmann KAPSTO®: Plastic protective elements for all applications.



Pöppelmann K-TECH®: High-precision technical injection moulded parts for demanding applications.



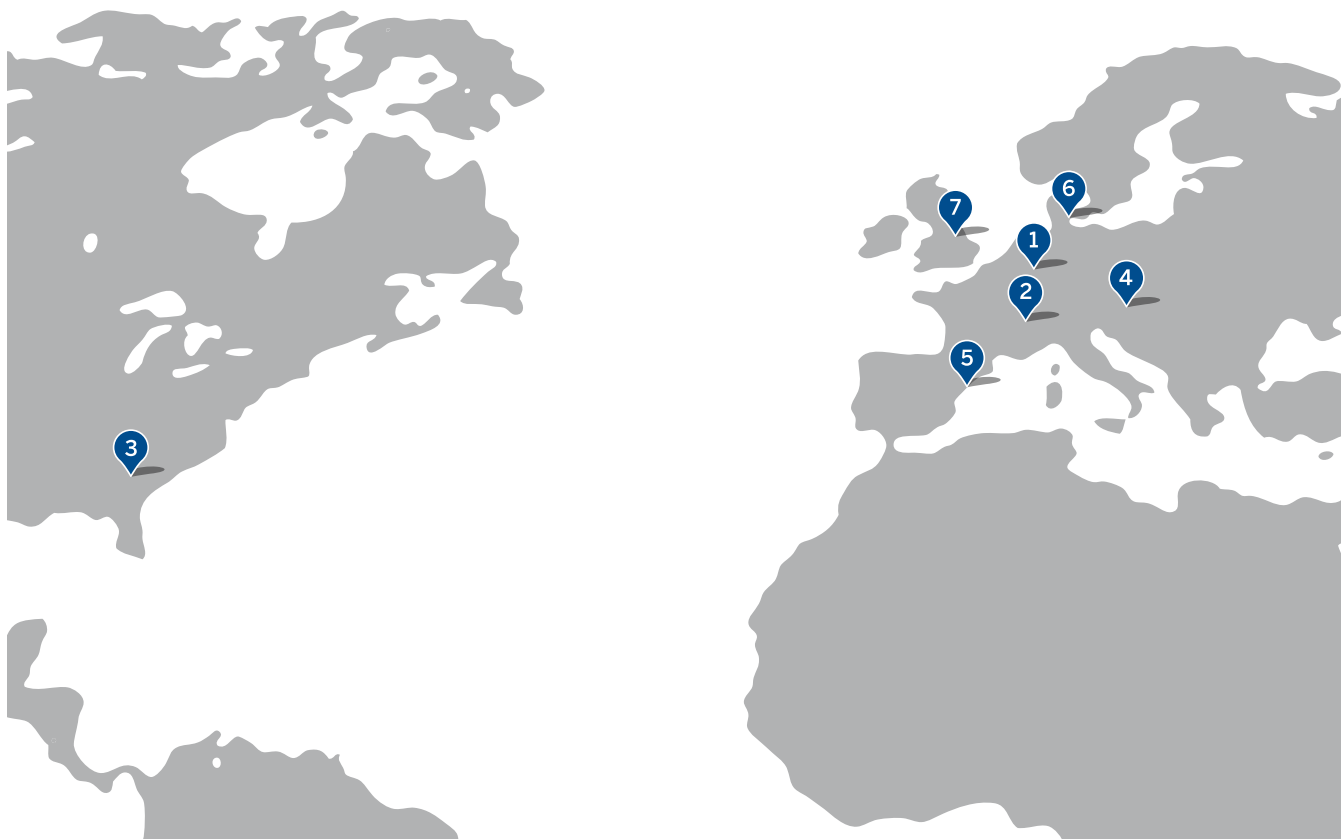
PÖPPELMANN

Contact, product research and request for samples: www.poeppelemann.com

FAMAC®



We're here for you. **Worldwide.**



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