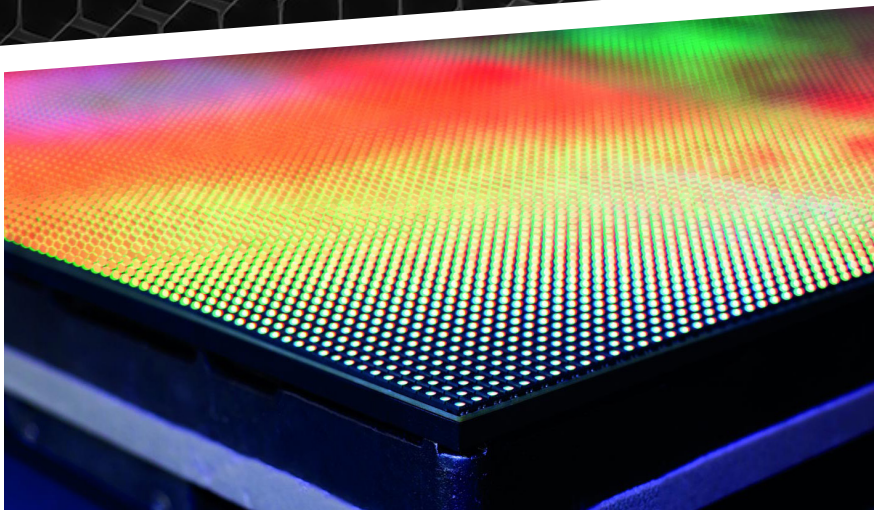


# INNOVATIVE PRODUCTS THROUGH INTELLIGENT MATERIAL COMBINATIONS

**euro**  **at**  
INDUSTRIAL SURFACE SOLUTIONS



# CONSULTING ENGINEERING SERVICE

## EUROMAT

THE SPECIALIST FOR AMBITIOUS JOINT, SOLDER AND COATING SOLUTIONS WITH ITS HEAD OFFICE IN BAESWEILER AT AACHEN.

### WE OFFER FOLLOWING SERVICES

- ✓ Consulting and design
- ✓ Analysis and evaluation of technology and material selection
- ✓ Engineering, process development and prototyping
- ✓ Coating, soldering, brazing and glueing service

From analysis to engineering to service: With our know-how we help with the complete product development including production services and quality control.





## KNOW-HOW, EXPERTS, SOLUTIONS

- ✓ Special know-how thanks to our internationally recognised experts
- ✓ We use the latest research results and technologies
- ✓ Short-term development resources with predictable costs and times
- ✓ Targeted education and training



## CUSTOMISED SOLUTIONS

We offer new technical solutions, which are implemented directly as a prototype or in small batches, in the following areas:

- ✓ Ceramic-metallic diffusion coatings on powder, tape and slurry basis for high-quality wear and corrosion protection
- ✓ Nano layers for easy-to-clean, non-stick or anti-corrosion functions
- ✓ Brazing, soldering, metallising and glueing difficult-to-wet surfaces of metals, ceramics, light metals, glasses and composite materials
- ✓ Processes, soldering and coating materials developed in-house for achieving unique component properties
- ✓ Flux-free soldering of optics, sensors and heating/cooling plates according to RoHS directives
- ✓ Taylormade glueing solutions for heating/cooling components and machining tools as well as for wear protection, sensory and optically demands.

# OUR RANGE



## TECHNOLOGIES FOR YOUR APPLICATIONS

EUROMAT USES INNOVATIVE TECHNOLOGIES IN COATING, SOLDERING, BRAZING AND GLUEING OF TOOLS, COMPONENTS AND PARTS.

### **S-BOND®**

Patented ultrasonic soldering technology and solders up to 450 °C for heavy metal and flux-free soldering and metallisation of metals, light metals, glasses, ceramics and composite materials.

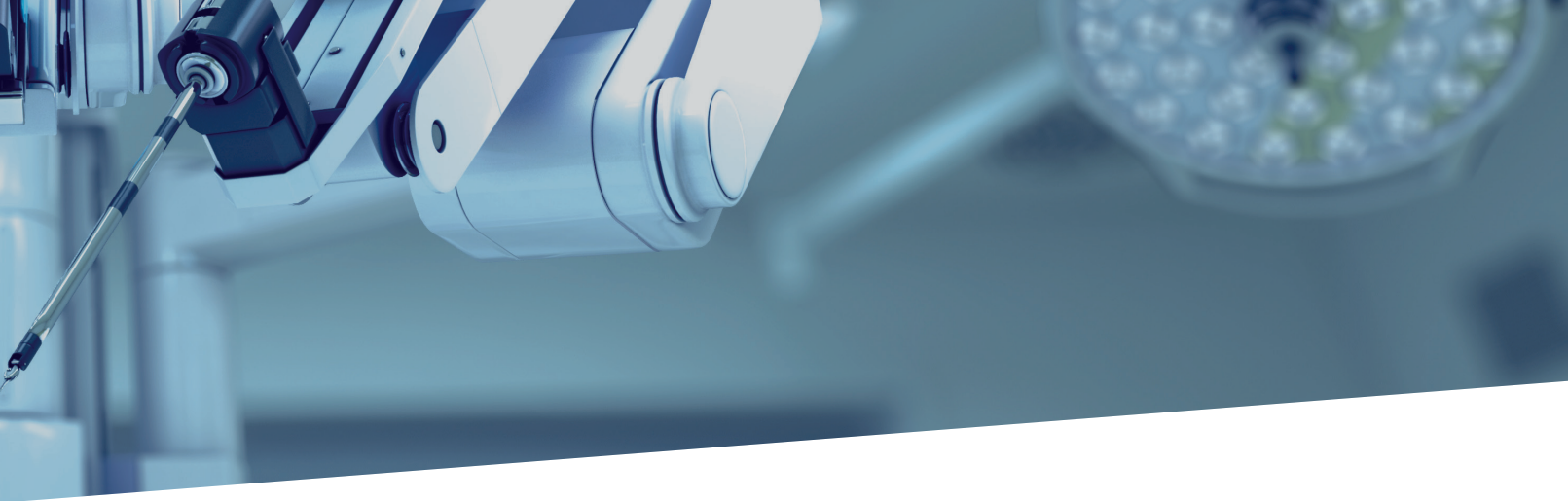
### **COLDBOND®**

Hybrid joining technology up to 450 °C under protective gas with ultrasound and/or with reactive nano-solders for stress-relieved, heavy-metal and flux-free soldering and metallisation of difficult-to-join materials. Very suitable for soldering optics, sensors, cooling/heating plates, tools, fibres or other components with high demands on purity, heat transfer, electrical conductivity and tightness.

### **BODYCLAD®**

Surfacing by brazing, metal-ceramic, extremely dense armour layers for high-quality wear, abrasion and corrosion protection. Application by powder, slurry, preform or tape techniques. Internal and external coatings for components, tools or large-area panel systems.





## **NAOPLAS®**

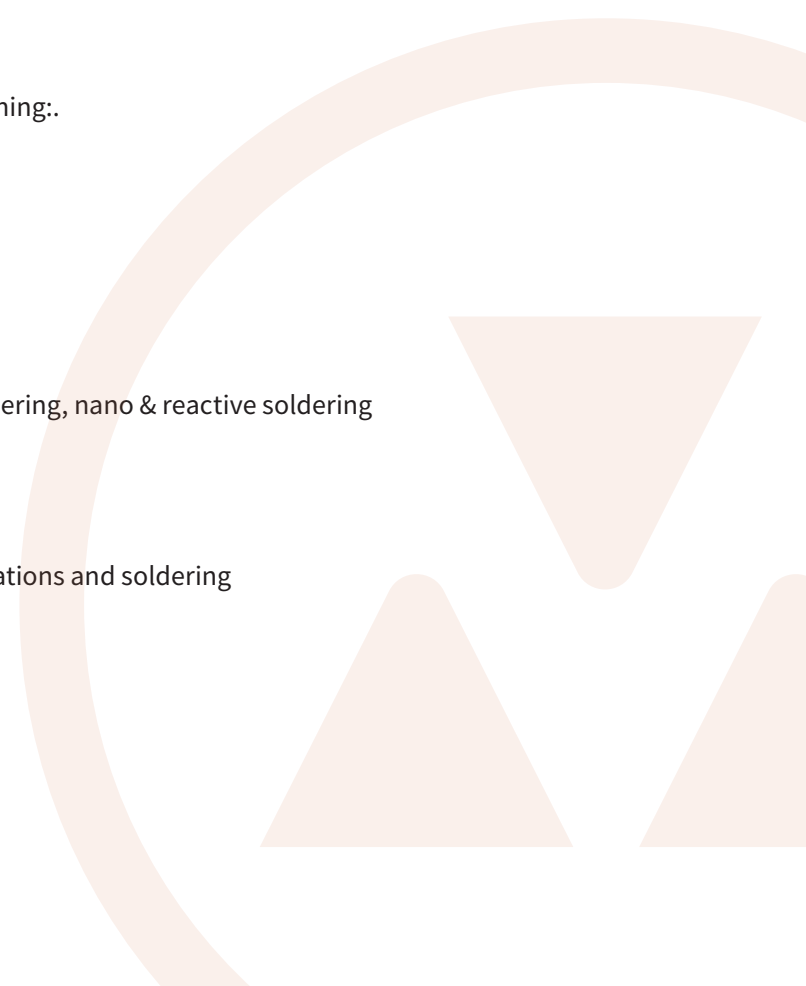
Nanostructured inner and outer coatings for corrosion and wear protection, non-stick, antibacterial, easy-to-clean. Functions on metal, light metal, glasses, plastics, stones, concrete and ceramics.

## **FORMAT®**

Low-friction PVD/CVD coatings for wear protection applications in the field of tooling and forming technology.

Additional technologies and materials for coating and joining:.

- ✓ Thermal coating process
- ✓ Inert gas and vacuum brazing
- ✓ Induction, flame and ultrasonic soldering, laser soldering, nano & reactive soldering
- ✓ Hybrid-Technik zum flussmittelfreien Kaltlöten
- ✓ Nano / micromaterials for special coatings, metallizations and soldering





# FUNCTIONALLY- OPTIMISED TOOLS AND COMPONENTS

## WHAT'S IN FOR YOU

THROUGH OUR SINGLE SOURCE SOLUTIONS AND OUR EXPERTISE IN JOINING, SOLDERING AND COATING TECHNOLOGY SPEED UP YOUR PRODUCT AND PROCESS DEVELOPMENTS, INCREASING YOUR COST-EFFECTIVENESS.

### WHAT WE CAN OFFER

- ✓ Increase performance, e.g. through improved heat dissipation or smooth running, increased use of temperature or energy savings through weight reduction
- ✓ Combine difficult to combine materials, e.g. light metals, composites, ceramics, ceramic-metal composites
- ✓ Create lightweight structures, e.g. by soldering metal foams, light materials or composite materials
- ✓ Preservation of value through recontouring and maintenance of expensive or time-critical components, e.g. by coating and/or soldering with appropriate post-processing
- ✓ Increase economic efficiency, e.g. by increasing wear protection, design improvements, selection of suitable materials
- ✓ Improve market positioning, e.g. by developing unique, environmentally sound and sustainable process solutions
- ✓ Boost the degree of innovation, e.g. converting existing production to more cost-effective materials, more economical processes and increasing vertical integration
- ✓ Accelerate your product and process development and reduce your costs



## **ASK US**

We'll gladly advise you on the topics of coating, soldering and functionally-optimised components. Together with you we develop a concept, analyse, engineer and evaluate with the highest quality standards.

Online at [www.euromat.de](http://www.euromat.de) you can find more information, our material and safety data sheets and lots of talks. Take a look around.



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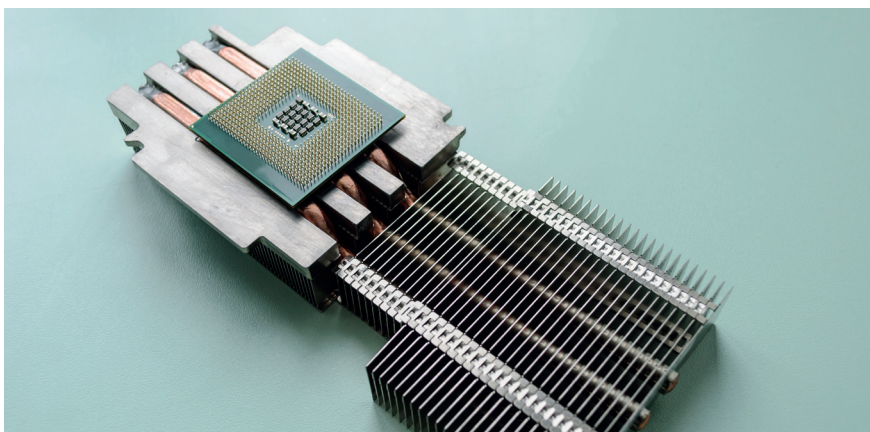
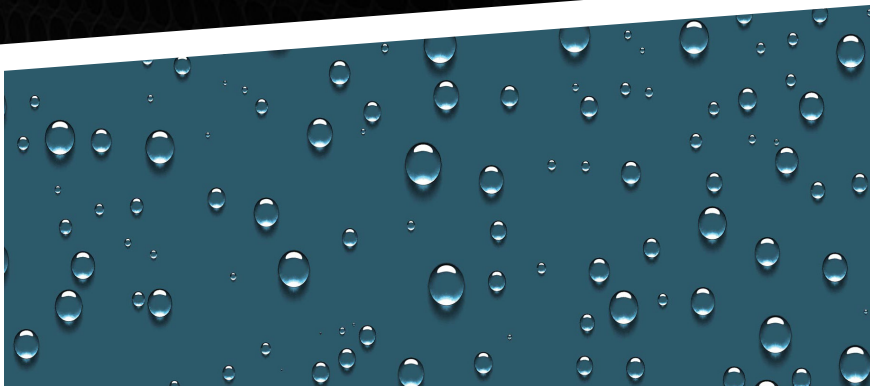
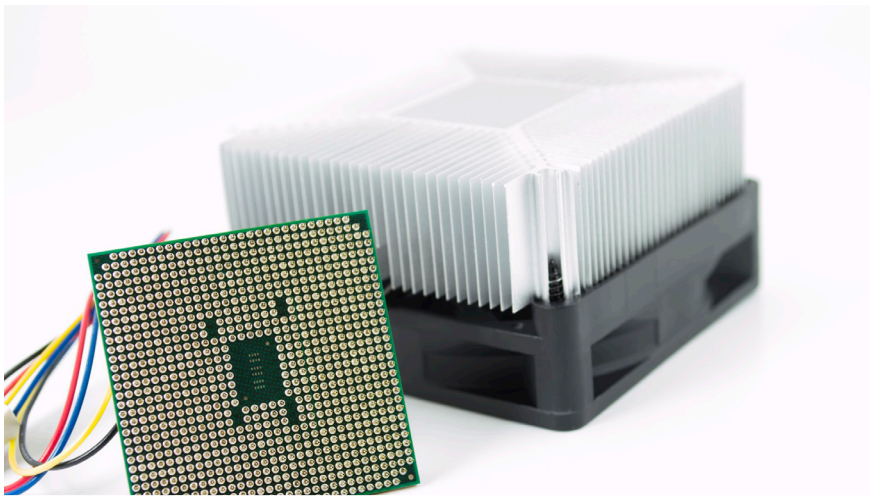
## **DIN EN ISO 9001 CERTIFIED**

We aim for the highest quality. This not only applies to our technologies and products, but also to our company.



*„DIN EN ISO 9001 sets the minimum requirements for a quality management system (QM system) that an organisation must fulfil, to provide products and services that meet customers' expectations and legal and regulatory requirements. Furthermore, the QM system is subject to a continuous improvement process (CIP).“*





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