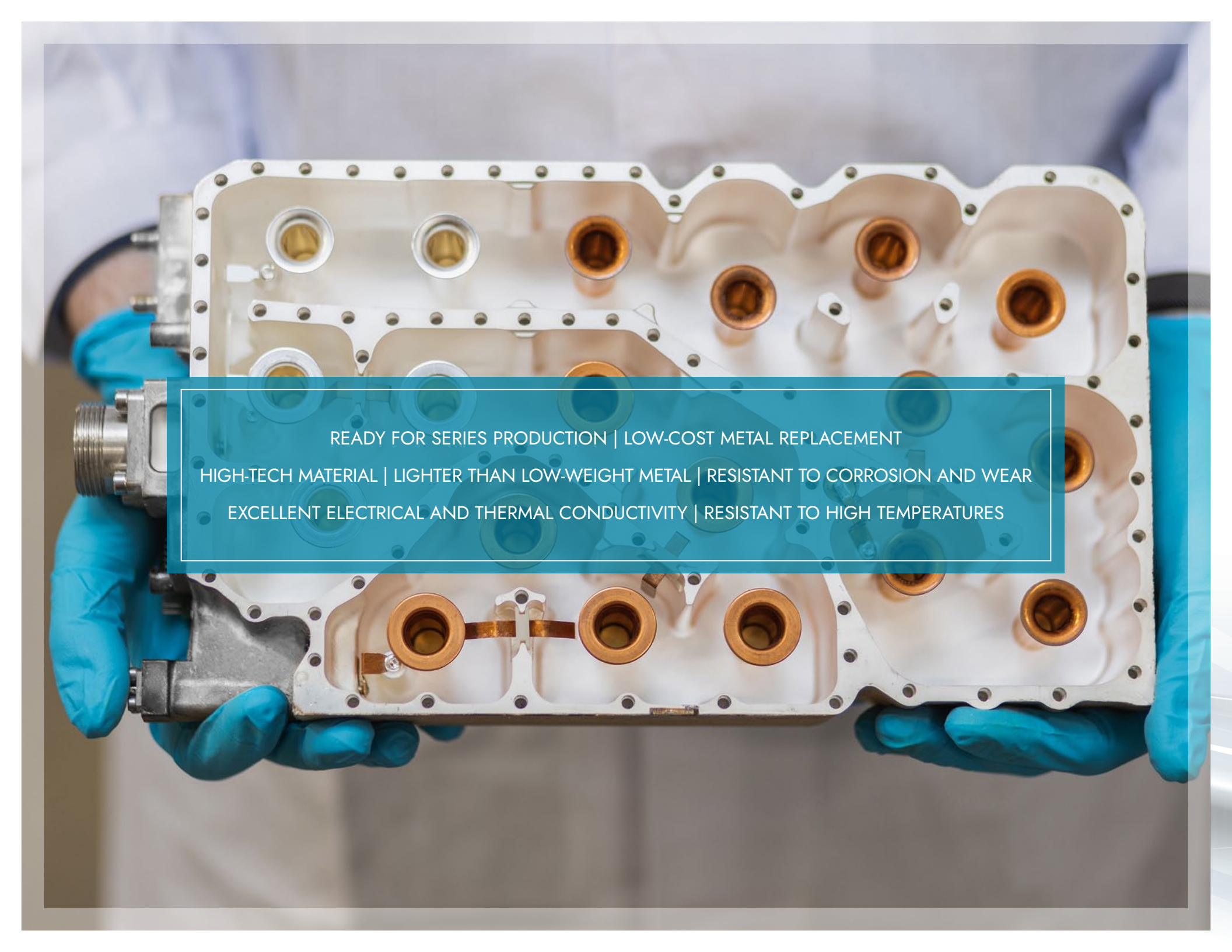




**BICONEX**

**METAL-PLATED  
POLYMERS**

[www.biconex.de](http://www.biconex.de)



READY FOR SERIES PRODUCTION | LOW-COST METAL REPLACEMENT  
HIGH-TECH MATERIAL | LIGHTER THAN LOW-WEIGHT METAL | RESISTANT TO CORROSION AND WEAR  
EXCELLENT ELECTRICAL AND THERMAL CONDUCTIVITY | RESISTANT TO HIGH TEMPERATURES

# ABOUT US

**We are the market leaders in functional coating of high-temperature polymers with metals**

## **Competence for high-tech materials**

We are a German Company offering market-leading competence in manufacturing and supplying coated polymer parts with functional metal surfaces. Our products are developed to suit customer requirements, brought to production status, and manufactured in both small and large volumes. We define ourselves as a full-service provider with a strict focus on customer needs.



**High-tech products based on polymers  
with metallic properties**



## A proven model for success

Metal-plated polymers are a success story with a decades-long track record in the automotive and sanitation industries. They are used for complex yet high-volume parts which need to fulfil demanding aesthetic criteria and be pleasant to handle.

## A natural connection

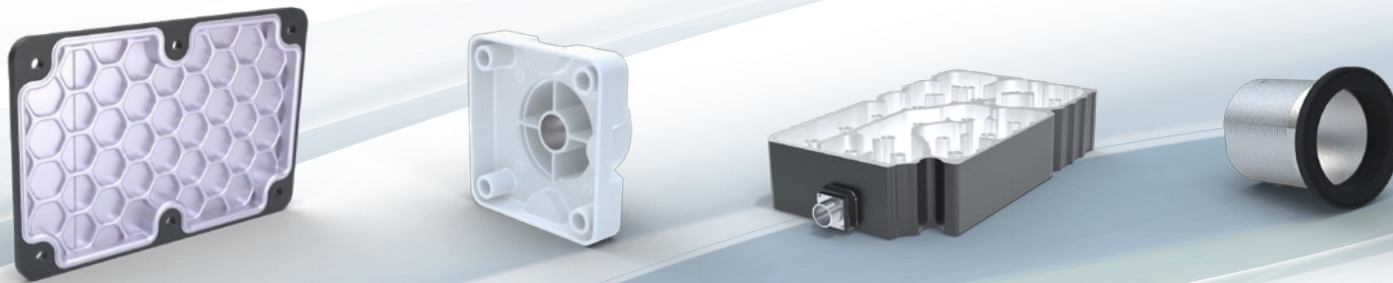
Nature itself shows us the way: the peel of a lemon, the bark of a tree, or human skin. Optimized properties can only be achieved by combining materials in an intelligent way. For metal-plated polymers that means typical metallic qualities like excellent conductivity, wear, and corrosion resistance in combination with outstanding flexibility and precision in shape.

## Added value through function

Metal plated polymers don't just look shiny, but offer diverse functionalities as well. Whether you need light-weight construction, shielded housings, HF-antennas, filters, or components with strong resistance to wear with special vibrational properties, metal-plated polymers are often the best choice.

## Know-how & experience: the key to success

The sheer range of metal-plated polymer options can make choosing between them daunting, but by combining the right polymer with the right manufacturing method and coating technology, we can find the optimal solution for your requirements. With our long years of experience in manufacturing metal coatings on polymers and our expertise in the science and technology behind the process, we can provide exactly the right solution for you across a full range of available technologies.





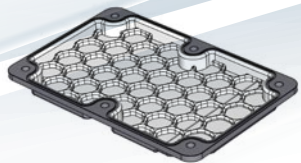


**Let us inspire you!**

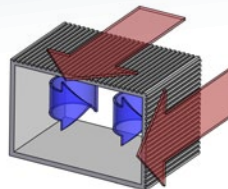
We will keep you informed about new applications and provide you with tailor-made solutions for your requirements.

# PRODUCTS

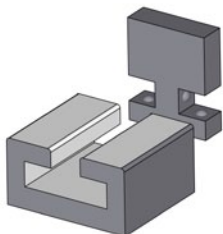
**to suit customer needs**



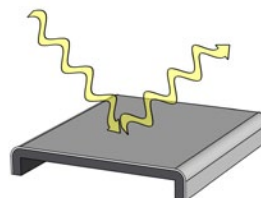
Light-weight construction  
and complex geometries



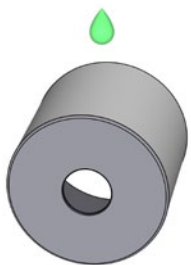
High thermal  
conductivity



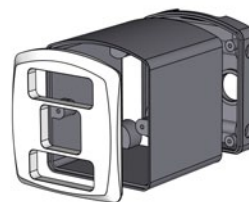
Wear-resistant  
and low-friction



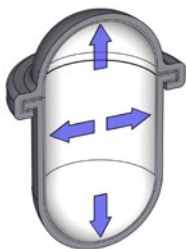
Electromagnetic  
shielding (EMI)



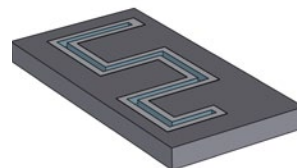
Resistant to chemicals



Exquisite look and feel



Gas- and liquid-proof



High-frequency antennas  
and filters



# ALL-ROUND SERVICE

**Everything from requirements analysis  
and plating services through to materials  
testing and expert assessments**





## Are you looking for an initial project assessment?

With our **initial consultation** free of charge, we provide you with information about the various possibilities for your project.

## Do you need to a sound decision prior to project launch?

Use our **requirements analysis** service to help you understand the options for using plated polymers – and the risks and opportunities for your project. For a small fee, you gain access to our competence and expertise, receiving a written report that will stand up to critical scrutiny.

## Do you see opportunities – but also risks?

The biggest potential is always to be found outside of standard applications. With our **feasibility studies** we clarify basic technical realizability for you and your application, both eliminating identifiable and critical technical risks while also offering an initial assessment of the final production costs.

## Do you need larger volumes and a certified series manufacturing process?

Starting from first development samples it can be long and difficult path to the final series process. A key factor in avoiding unpleasant and costly surprises in the later stages of **series development** is manufacturing prototypes which resemble the final products to the greatest possible extent as early as possible. Choosing Biconex means choosing a partner with many years of manufac-

turing experience combined with profound scientific and technical knowledge, all backed up with our strong partner network.

## You are just looking for manufacturing capacity?

If all the technical issues are resolved, we are happy to offer you coating of your polymer parts as a service, preferably in our own facility. On request, we also accept orders for the complete manufacturing of coated parts. Together with our partner network we not only offer a **coating service** with unprecedented production depth, but are also perfectly equipped for various special requirements. Our main focus is the simplest solution for you. This also includes commissions to our partners if this fits your needs best.

## Are you looking to further optimize your products?

There are numerous approaches to quality and costs **optimization**. For example, quality control processes can be adapted to real-life returns of products from diverse applications and regions. Key to these improvements is a profound understanding of aging and change processes during service life, leading to improved test procedures based on refined prediction models. Benefit from our background in materials science and our excellent research partners in the region around Dresden.





# CONTACT US

**Use our polymer and coating expertise  
for your specific application**



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