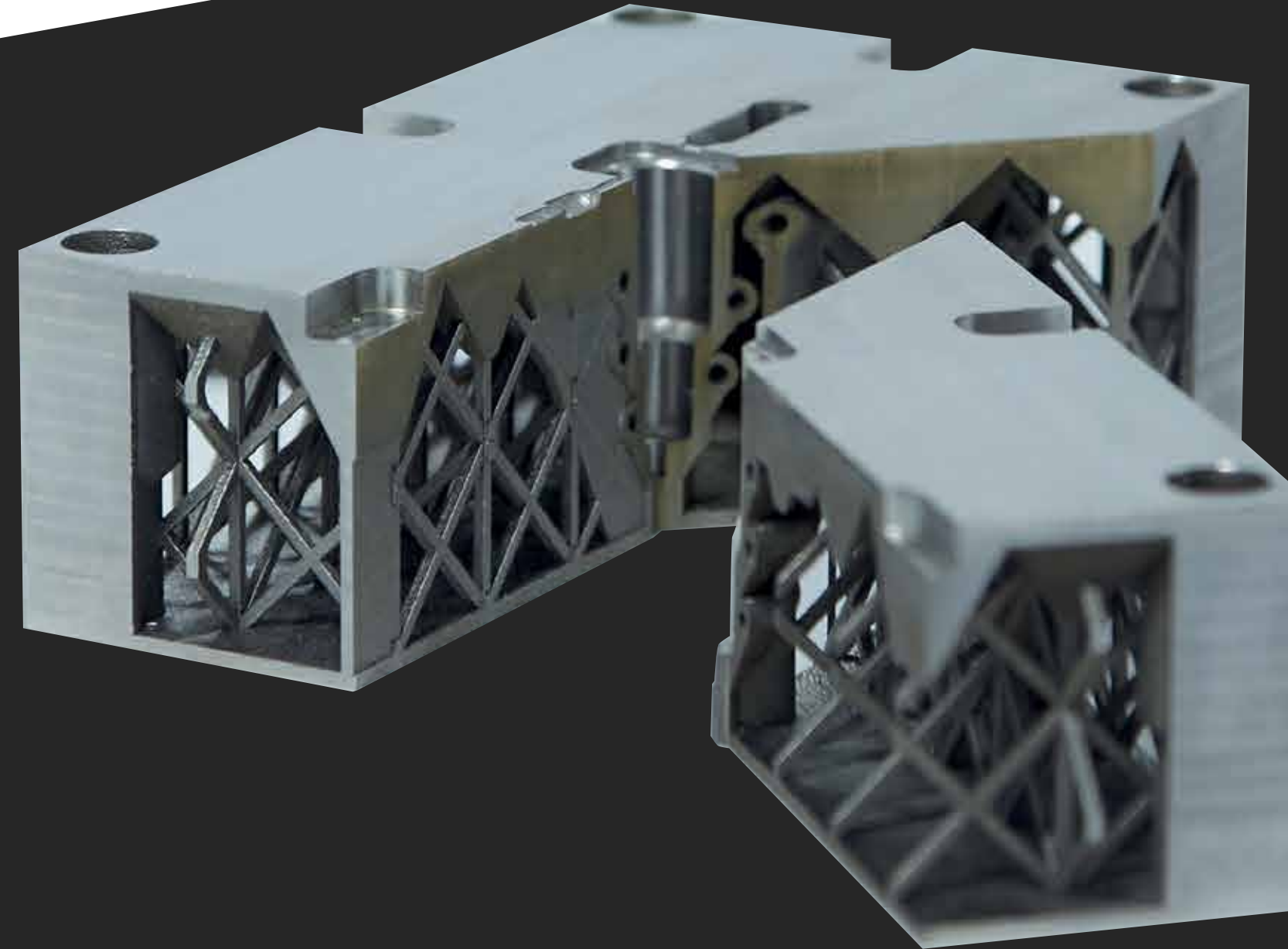


Original

Repariert



3D

LEFT

OBJECT

ZOOM

SCALING

100%

DIMENSIONS

55.6

x

50.6

x

31.2

mm

USE THE PREDEFINED VALUES

**3D PRINTING BY PROTIQ.**  
**PRECISE. FAST. RELIABLE.**





Always a PROTIQ **better.**

## 3D OBJECTS FOR PROFESSIONAL USE

easy configuration, convenient ordering, fast delivery

What do you expect from a service provider to whom you entrust your company's most valuable possession – your product? Do you expect high-precision results that can be put to use right away? Do you prefer expert, professional advice from a reliable partner? PROTIQ offers all these things.

The PROTIQ team has been providing expertise in additive manufacturing for the Phoenix Contact Group since 2010. We draw on this experience to advise and support you, from 3D data generation to finished prototypes, models and components.








Always a PROTIQ **more solution-oriented.**

## WE PROVIDE THE RIGHT SOLUTIONS FOR ALL OF OUR BUSINESS CUSTOMERS' REQUIREMENTS.

We offer a diverse range of materials and production processes complemented by important additive manufacturing services such as training, reverse engineering and finishing.

Our portal includes features that actively support your business processes, including convenient approval and ordering processes and our configurator, with which you can upload entire assemblies.



	Selective Laser melting for metals	Laser sintering	Stereolithography
			
<b>Materials</b>	including zinc, highly conductive (rhine) copper, tool steel and brass	including PA12 variants, TPU, PA6-like and Polypropylene	RS Clear, RS Elastic, VisiJet Tough, RS Flexible, RS HighTemp
<b>Wall thicknesses from</b>	0.3 mm	0.45 mm	0.1 mm
<b>Chamber size</b>	up to 250 mm x 250 mm x 300 mm*	340 mm x 340 mm x 600 mm*	250 mm x 250 mm x 250 mm*
<b>Systems</b>	<ul style="list-style-type: none"> <li>▶ 3 x EOS M280</li> <li>▶ 3 x EOS M290</li> <li>▶ 1 x In-house system</li> </ul>	<ul style="list-style-type: none"> <li>▶ 2 x EOS P396</li> <li>▶ 4 x EOS P110/ P100</li> <li>▶ 1x PRODWAYS P4500HT</li> <li>▶ 1 x Farsoon HT403P</li> <li>▶ 1 x RICOH AM S5500P</li> </ul>	<ul style="list-style-type: none"> <li>▶ 1 x 3D-Systems HD6000</li> <li>▶ 1 x Viper S2</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>▶ Impermeable functional prototypes made of steel, stainless steel, aluminum or copper</li> <li>▶ High mechanical strength</li> <li>▶ Suitable for injection molding tools as well as complex copper inductors</li> <li>▶ Conformal cooling / temperature control</li> <li>▶ Can be heat-treated/hardened</li> </ul>	<ul style="list-style-type: none"> <li>▶ No supports required</li> <li>▶ Functional models made of various engineering plastics</li> <li>▶ Characteristics similar to those of injection-molded objects</li> <li>▶ Food-safe material</li> <li>▶ Maximum design freedom, since no supports need to be removed</li> <li>▶ Components can be painted and dyed</li> </ul>	<ul style="list-style-type: none"> <li>▶ Maximum precision (+/- 0.05 mm) and detail rendition</li> <li>▶ Top surface quality</li> <li>▶ Good finishing properties</li> <li>▶ Suitable for master forms for casting processes</li> </ul>

\* larger dimensions available on request



Always a PROTIQ **more innovative.**

## WE RETHINK ADDITIVE MANUFACTURING EVERY DAY.

This enables us to offer you unprecedented opportunities based on new materials and improvements in our own systems and software. An example of such a new material is highly conductive copper, which has expanded the use of 3D printing to many exciting new fields, such as electronics.

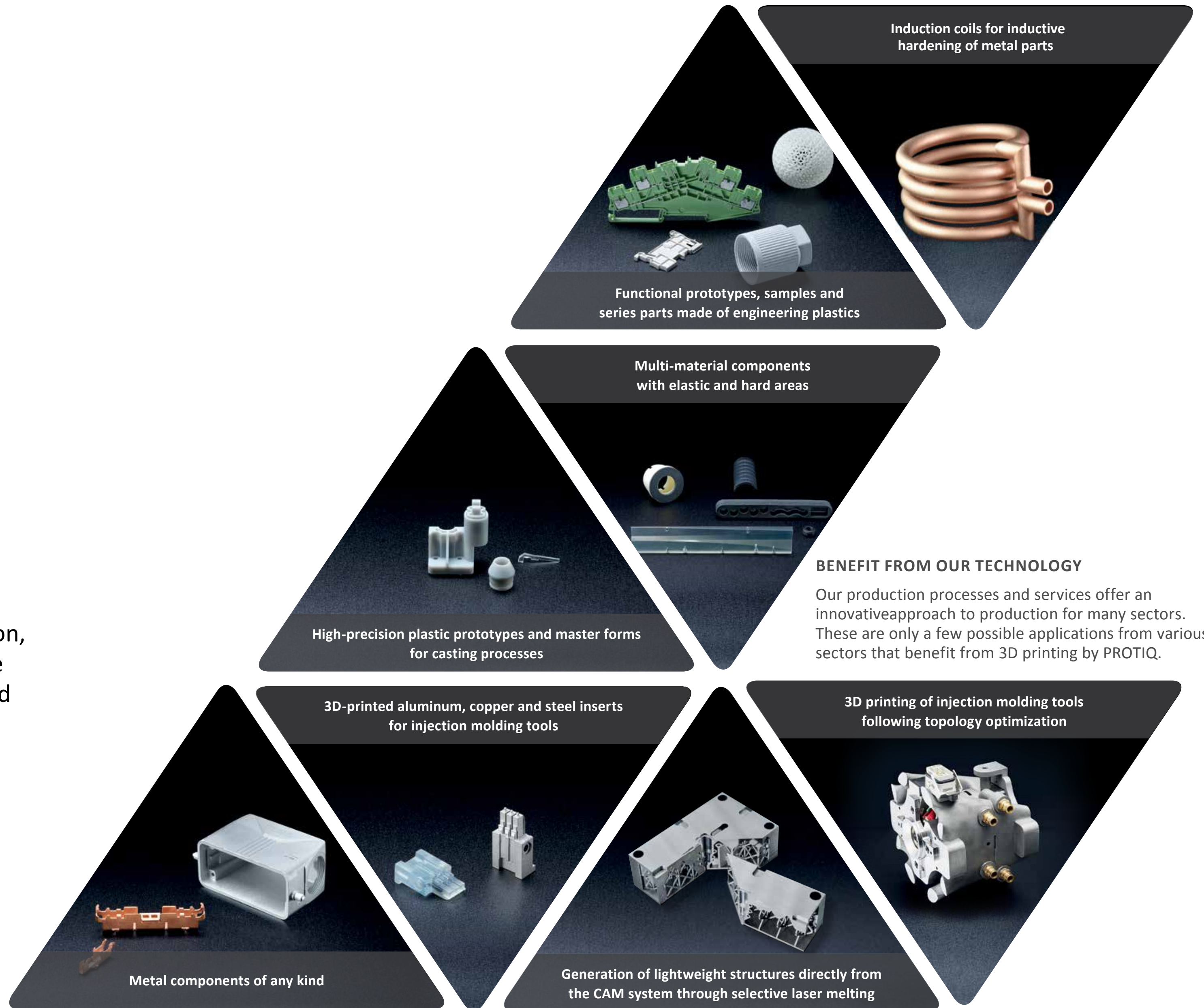
We're actively involved in shaping the future of additive manufacturing, constantly refining our processes and working closely with our research partners. How does that benefit you? Starting today, you can broaden your range of applications with new materials and use our portal's convenient features for the best possible support for your processes.



Always a PROTIQ **better in quality.**

# WE OFFER CONSISTENT QUALITY FOR VARIOUS SCOPES OF APPLICATION.

That applies to our production process, our professional communication, and of course our end results, thanks to the PROTIQ team's experience and its in-depth process expertise. Our processes are industrialized and standardized, enabling us to offer a high standard of quality. Thus our great teamwork guarantees high standards of quality.

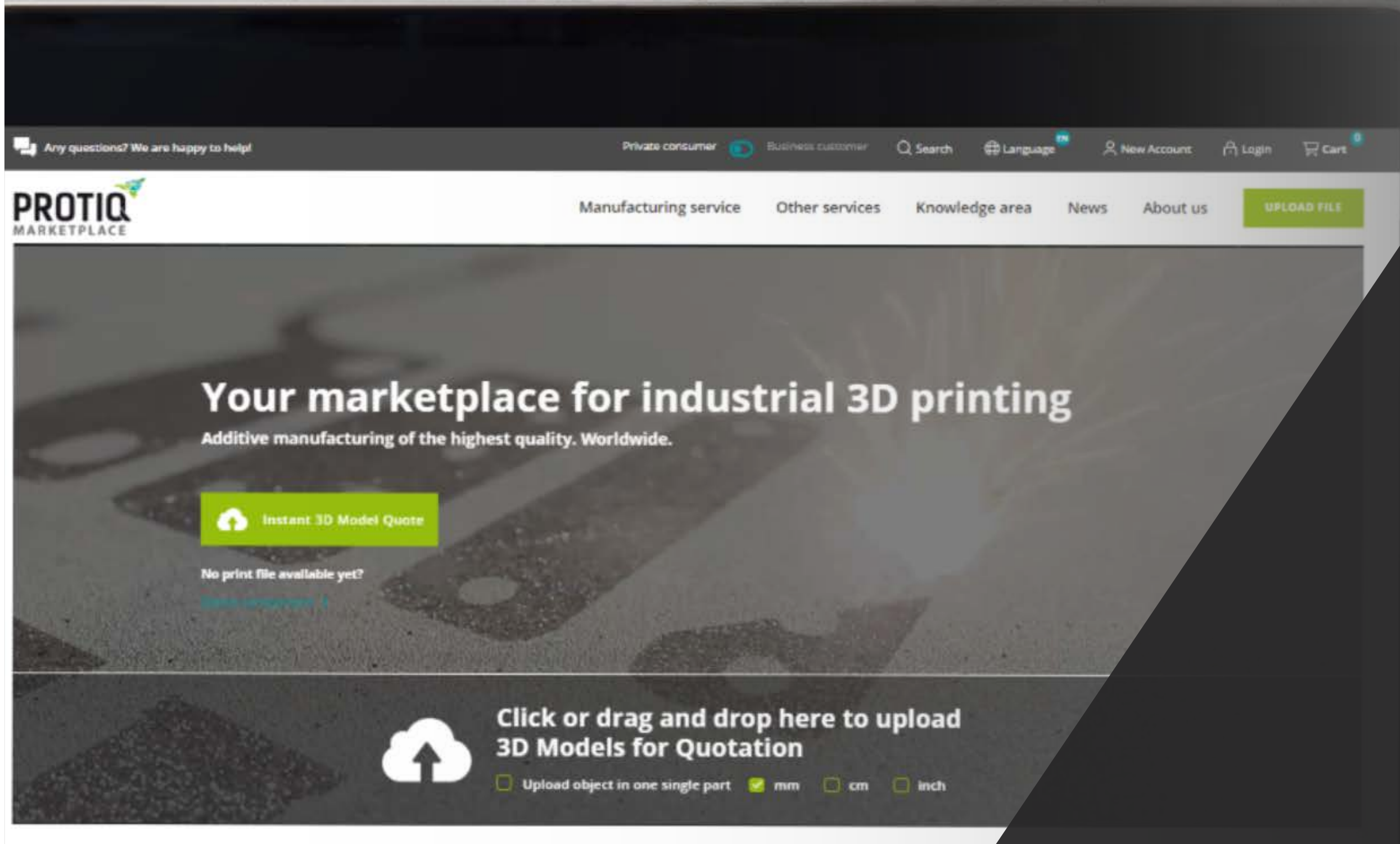


Always a PROTIQ **more reliable.**

## WE'RE YOUR PERSONAL CONTACT WHEN IT COMES TO ADDITIVE MANUFACTURING PROCESSES.

You can reach us any time. We'll respond to your requirements promptly. Direct communication with our customers is very important to us, so we provide personal consulting and training services. If you have any questions about the processes for uploading, configuring and ordering on the [www.protiq.com](http://www.protiq.com) web portal, our team will be happy to help you on the phone or via e-mail. Our work is characterized by passion and curiosity.

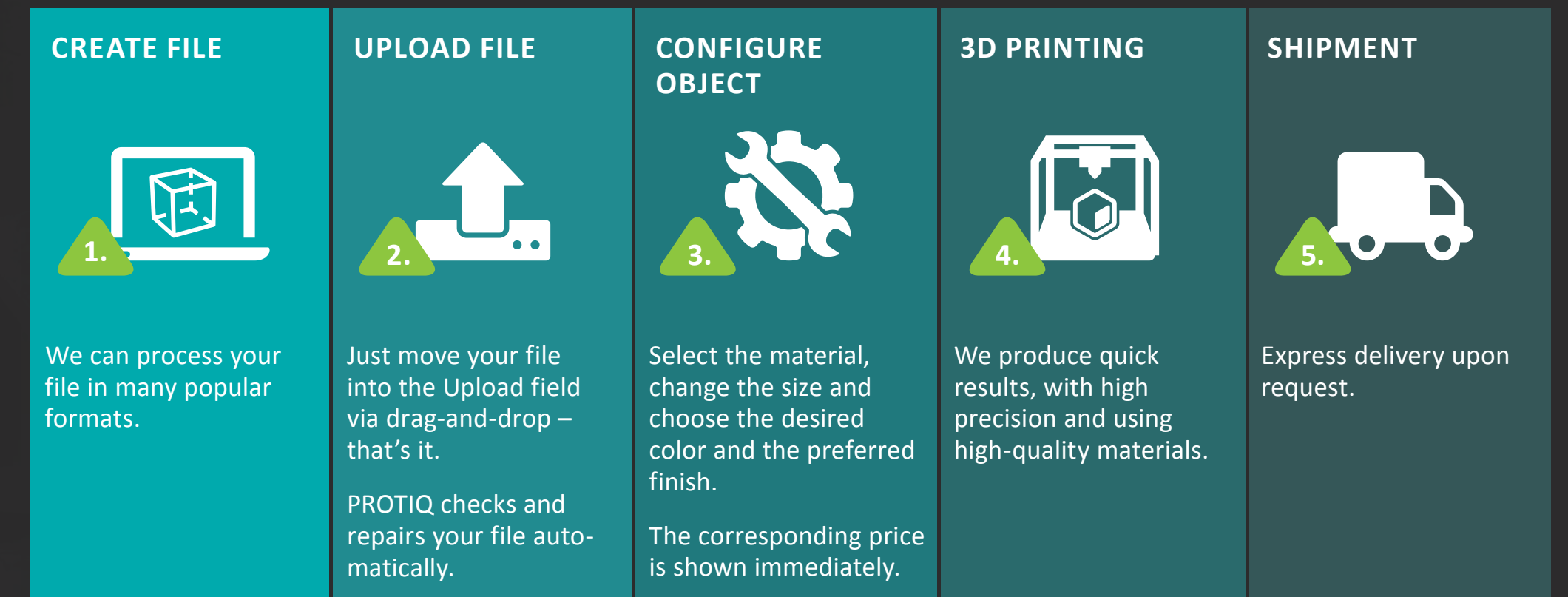




Always a PROTIQ **faster.**

## HOW PROTIQ WORKS.

Our services are both – high-quality and easy to use. On our web portal [www.protiq.com](http://www.protiq.com), you can configure individual objects or whole assemblies conveniently and quickly. The portal also facilitates the approval process: You can invite several colleagues to participate with different roles by setting up just one account for your company. Configuring and ordering high-quality 3D objects in the shortest possible time is that easy:

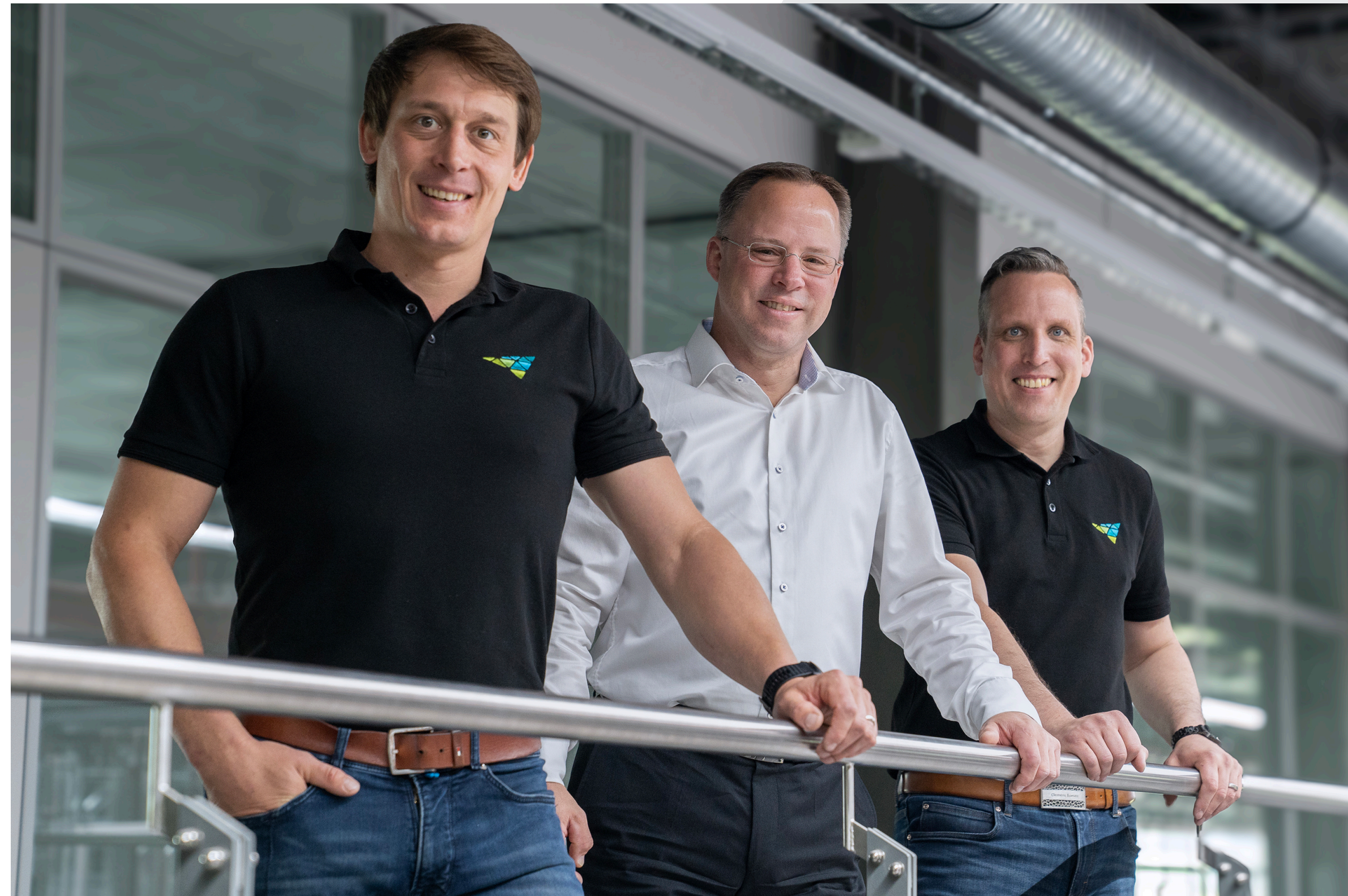


## VISIT US

[www.protiq.com](http://www.protiq.com)

Convince yourself of the quality of our work, and use our services to ensure your success. Our web portal offers you a wide variety of materials, processes and finishing services. It also helps you with your internal business processes.

Do you have questions about uploading or the materials or processes used? If so, we'll be pleased to help you.



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