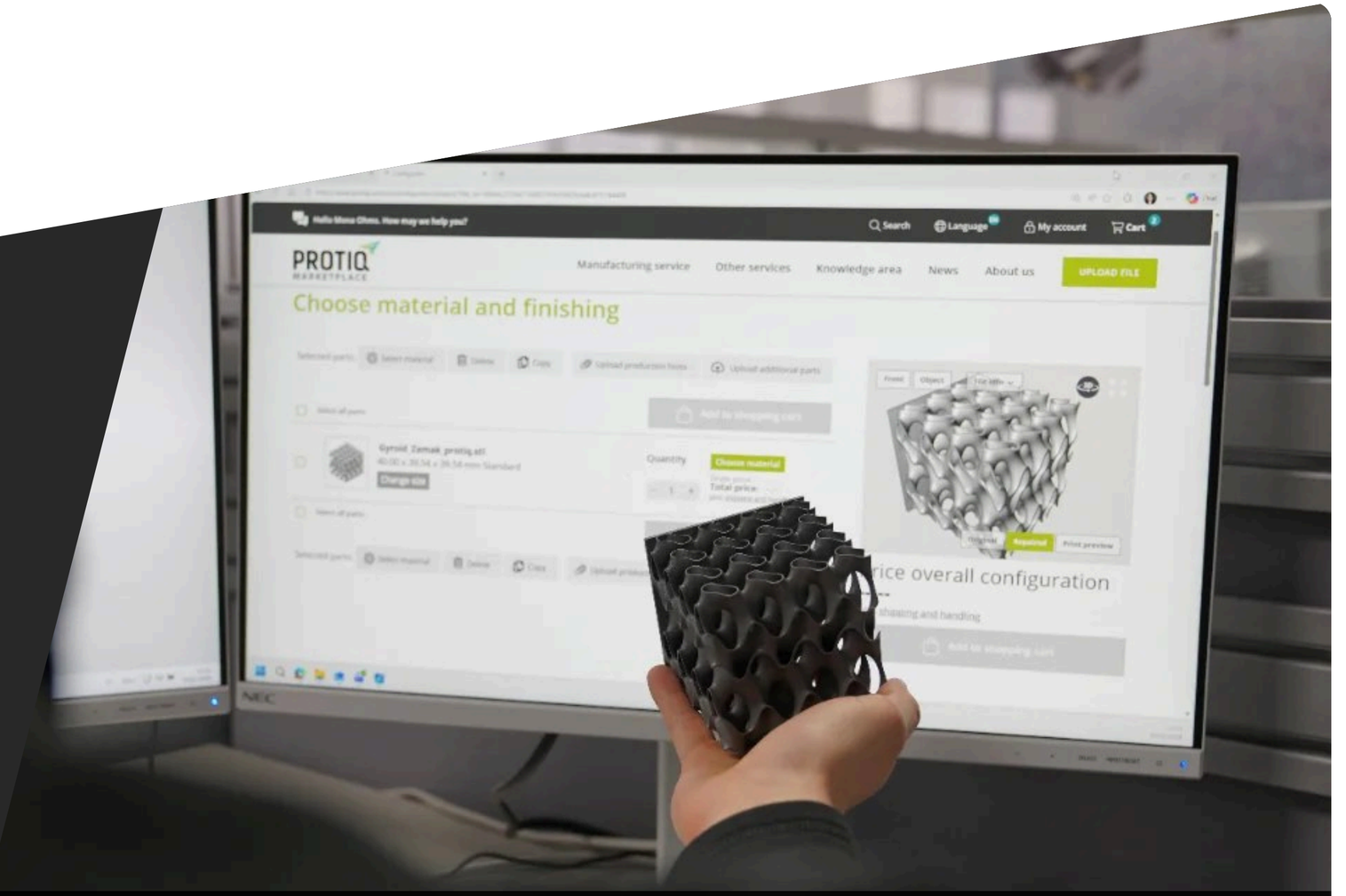
PROTIQ
A Phoenix Contact Company

More than 40 suppliers.
More than 160 materials.
One marketplace.



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

Always a PROTIQ | better | more solution-oriented | more innovative | higher quality | more reliable | faster |

VISIT US: www.protiq.com

Always a PROTIQ **better.**

3D PRINTED PARTS FOR PROFESSIONAL USE

easy configuration, convenient ordering, fast delivery

What do you expect from a service provider to whom you entrust the heart of your company – your product? Do you expect high-precision results that can be used right away? Do you prefer competent, expert advice from a reliable partner?

PROTIQ offers all of this. Since 2010, PROTIQ has been the additive manufacturing expert within the Phoenix Contact Group. We manufacture ourselves – and we operate the PROTIQ Marketplace: there you choose PROTIQ or one of more than 40 qualified suppliers, with more than 160 materials and more than 12 processes in one place. We advise and support you from the 3D file to the finished prototype, model or part.



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

WE OFFER THE RIGHT SOLUTION FOR EVERY REQUIREMENT OF OUR BUSINESS CUSTOMERS.

This is based on a broad range of materials and processes – in our own production and from the suppliers on the PROTIQ Marketplace. In addition, we offer services related to additive manufacturing such as engineering, reverse engineering by CT scan, finishing and training.

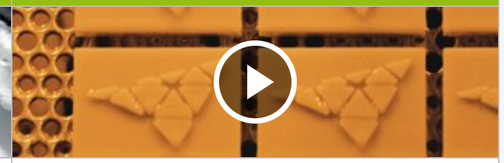
The PROTIQ Marketplace actively supports your business processes:

- Live prices – even without logging in
- Filters and supplier comparison with prices and delivery times
- Save projects and share them with colleagues
- Binding PDF quotations to download
- PROTIQ Purchase: one contractual partner for all suppliers
- Individual project tender on request

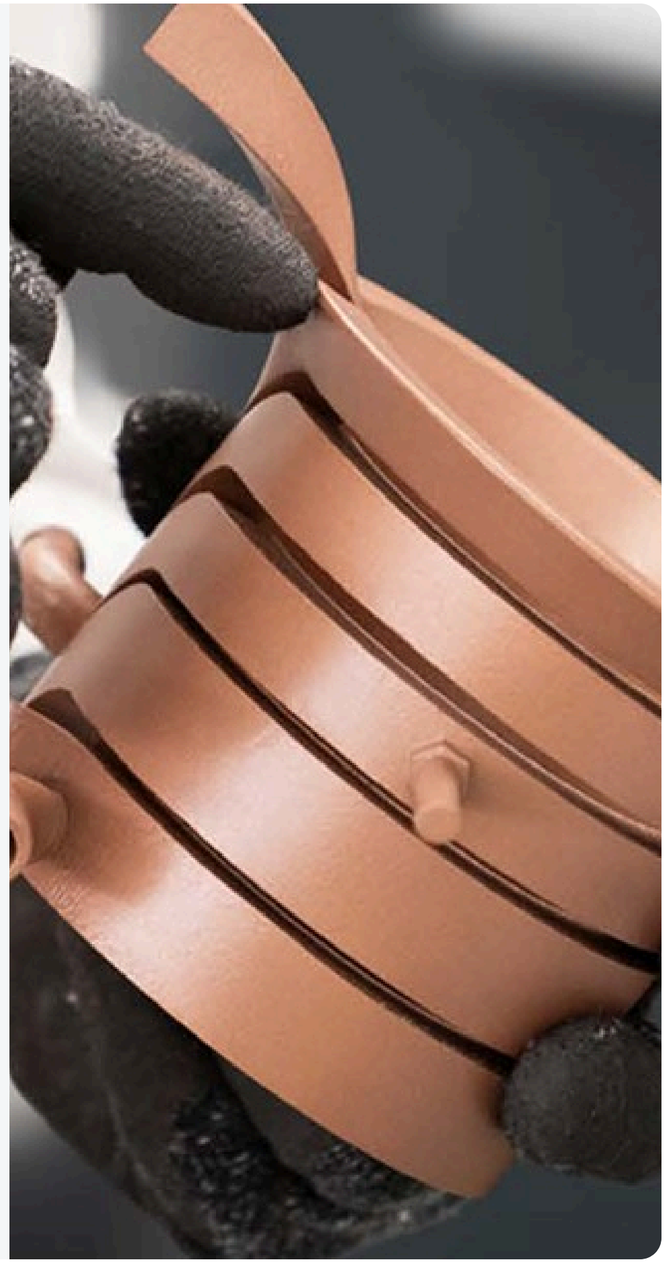


DETAILED INFORMATION ON PROCESSES AND MATERIALS

PROCESSES AND MATERIALS IN OUR PRODUCTION

	Selective laser melting (SLM)	Selective laser sintering (SLS)	Stereolithography (SLA)
Video			
Materials	Various metals, including highly electrically conductive copper, zinc (Zamak 5), tool steel and brass	Various plastics, including PA11 and PA12 variants, PA11 ESD, TPU and PEK	Various plastics, including VisiJet Tough, VisiJet Clear, VisiJet HighTemp
Wall thickness from	0.3 mm	0.45 mm	0.1 mm
Available build space	up to 250 × 250 × 300 mm*	340 × 340 × 600 mm*	250 × 250 × 250 mm*
Advantages	▶ Dense functional prototypes made of steel, stainless steel, aluminium or copper ▶ High mechanical strength ▶ Well suited for injection moulds ▶ Conformal cooling / temperature control ▶ Heat treatment / hardening possible	▶ No support structures or materials required ▶ Functional models made of various engineering plastics ▶ Properties similar to injection-moulded parts ▶ Great design freedom ▶ Parts can easily be painted and dyed	▶ High accuracy (± 0.05 mm) and detail reproduction ▶ Very good surface quality ▶ Good post-processing options ▶ Well suited as a master model for casting
Further processes on the PROTIQ Marketplace	Through the suppliers on the PROTIQ Marketplace, further processes are available to you, for example Multi Jet Fusion, PolyJet, binder jetting, CNC machining, vacuum casting, injection moulding and investment casting – for plastic, metal, ceramics and glass.		

* larger dimensions available on request



Always a PROTIQ **more innovative.**

WE RETHINK ADDITIVE MANUFACTURING EVERY DAY.

With our own material and process developments, we open up applications that can hardly be realised with conventional methods. Three examples:

- **Pure copper with up to 59 MS/m:** highly conductive inductors, heat exchangers and busbars
- **Zamak 5 in 3D printing – only at PROTIQ:** prototypes, small series and spare parts made of zinc without tooling
- **PA11 ESD in the SLS process:** electrostatically dissipative plastic parts

We actively help shape the future of additive manufacturing. To do so, we continuously develop our processes and work closely with partners from research and development. Your advantage: you can expand your range of applications today – and use functions on the PROTIQ Marketplace that simplify your processes.



Always a PROTIQ **higher quality.**

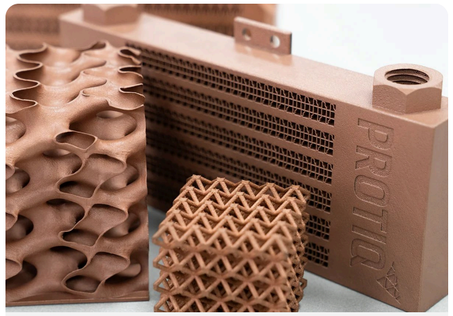
WE OFFER YOU CONSISTENT QUALITY ACROSS DIFFERENT FIELDS OF APPLICATION.

This applies to the manufacturing process, professional communication – and, of course, the end result. It is based on the experience and in-depth process knowledge of the PROTIQ team. Our processes are industrialised and standardised. This is how our well-coordinated team delivers a high level of quality.



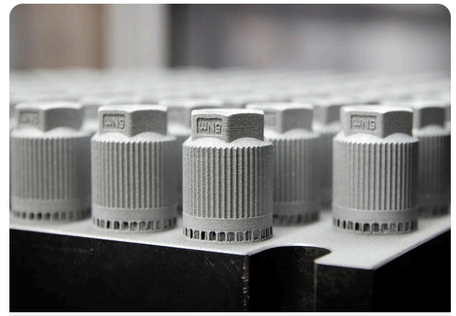
Copper inductors

For induction heating and brazing, including engineering



Heat exchangers & heat sinks

Complex cooling channels and lattice structures in one piece



Zamak 5

Zinc parts without tooling – from prototype to small series



Replicas on demand

Reverse engineering, e.g. by CT scan – from a quantity of one



Prototypes & small series

Functional prototypes and series parts in plastic and metal



Trade fair & architectural models

Detailed exhibits and models with impact

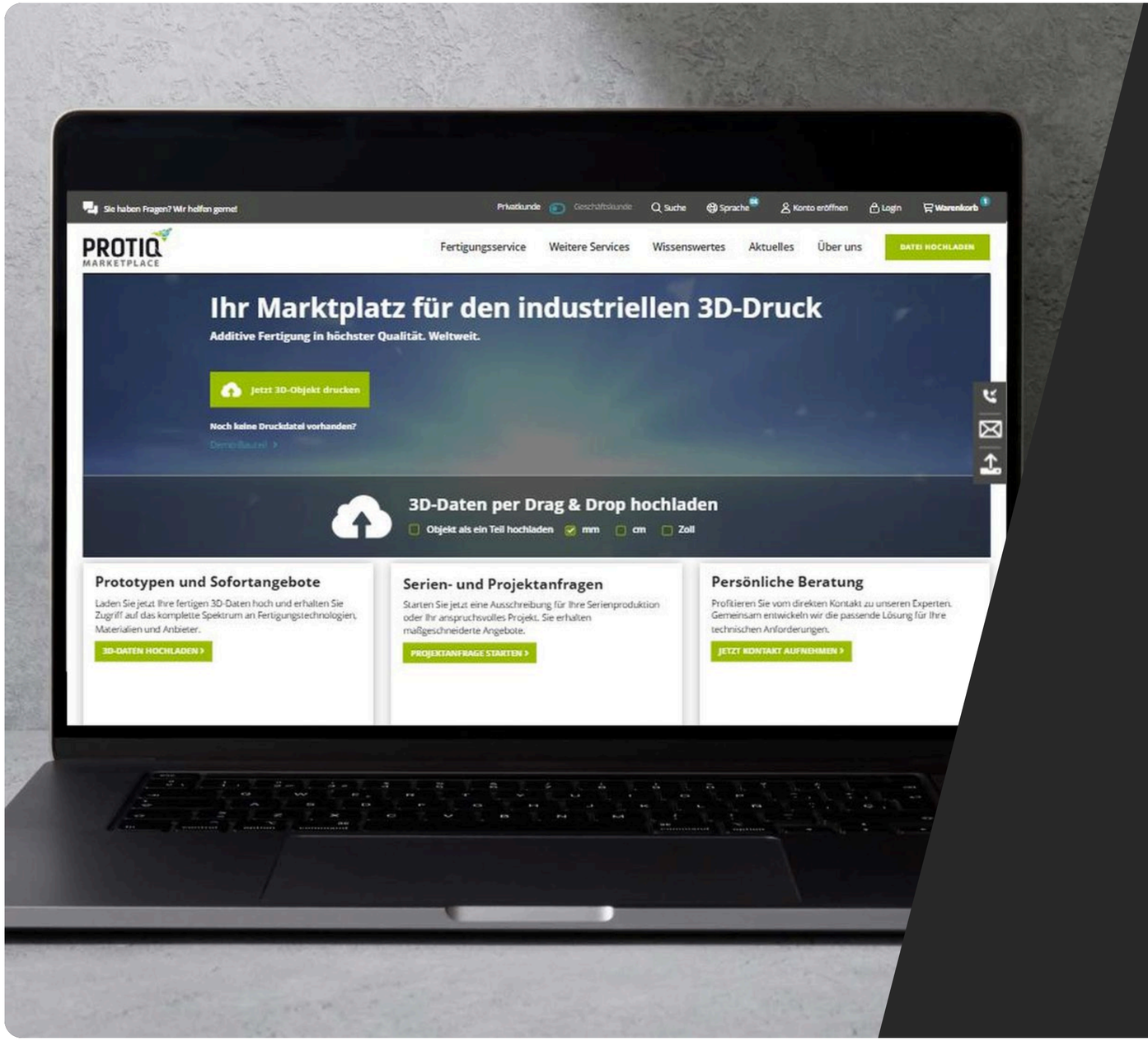
Always a PROTIQ **more reliable.**

WE ARE YOUR PERSONAL CONTACT FOR ADDITIVE MANUFACTURING PROCESSES.

We are always available to you and respond quickly to your requirements. Direct customer communication is very important to us. That is why we advise and train you personally. If you have any questions about uploading, configuring and ordering on **www.protiq.com**, our team will be happy to help. Our work is driven by passion and curiosity.







Always a PROTIQ **faster.**

THIS IS HOW EASY PROTIQ IS.

Our services are not only high quality, they are also easy to use. On **www.protiq.com** you can order in just a few minutes – with functions that make your work easier: live prices even without logging in, supplier comparison, saved and shared projects and binding PDF quotations.

This is how easily you configure and order your parts:

UPLOAD	FILTER & COMPARE	CONFIGURE	SAVE, SHARE, ORDER	PRODUCTION & SHIPPING
1. Upload your CAD file by drag & drop – it is checked automatically.	2. Filter materials, processes and suppliers, compare prices and delivery times.	3. Set the quantity and finish – the price is displayed live.	4. Share projects, download a PDF quotation or order directly.	5. The selected supplier produces your part, shipped worldwide.

VISIT US

www.protiq.com

See the quality of our work for yourself and use our services for your success. The PROTIQ Marketplace offers you a comprehensive range of materials, processes and finishing options – and supports your internal processes.

HOW TO GET STARTED

1 **Upload and order yourself**
Upload your 3D model to **protiq.com**, compare offers and order directly.

2 **Individual project tender**
For series and complex projects, **start a tender if you wish** and receive suitable offers.

3 **Talk to us in person**
We advise you from the first idea to series production: **+49 5235 34 38 00** or **service@protiq.com**



PROTIQ GmbH
A Phoenix Contact Company
Flachsmarktstraße 54
32825 Blomberg, Germany

Phone +49 5235 34 38 00
Email service@protiq.com
Web www.protiq.com

Upload your part
and see the price live