



Shaping the Future of Advanced Ceramics

Who are we?

We are Hydra Manufacturing, established 2024 by a team of engineers with over 35 years' experience in digital fabrication and advanced manufacturing processes.

Specialising in the production of advanced ceramics, we developed our hybrid-AM technology around conventional ceramic feedstocks for production-grade parts.

We bridge the gap between rapid prototyping and part production, helping you shape the future of advanced ceramics.

How can we help?

Prototype

Your engineering application, our advanced manufacturing process. We work with you to develop next-generation products from advanced ceramic materials.

Production

Our process, your facility. We seamlessly integrate our equipment into your factory, giving you full end-to-end advanced ceramic manufacturing capabilities.



Quality Guaranteed by Advanced Manufacturing

Material
Formulation



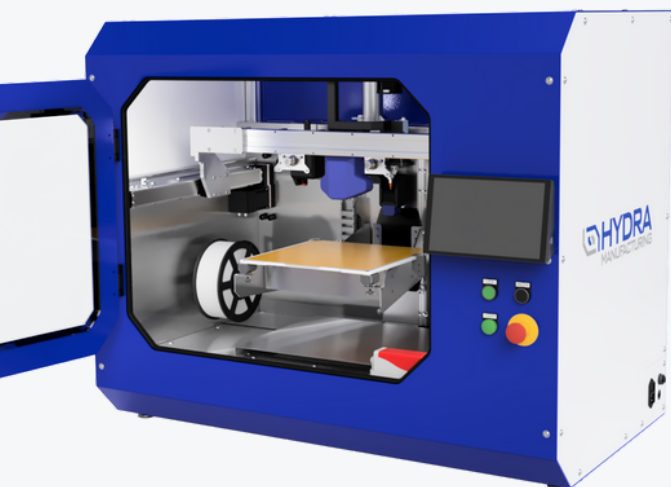
Shaping
Method



Post
Processing



Application



Property driven process design; we control the entire processing chain to create parts with the properties demanded by your application.

Our 3-axis Ceramic Hybrid Additive Manufacturing Platform (CHAMP X3) is an all-in-one solution, combining innovative additive techniques, AI-driven process control, and the precision of CNC machining to produce quality components, every time.

The Hybrid Advantage:

**Design
Freedom**

*Geometry + Material
= Functional*

**Rapid
Processing**

*Design iteration,
production properties*

**Multiscale
Fabrication**

*Parts < 300 mm
Features > 0.3 mm*

**Quality
Assurance**

*Defect detection +
automated correction*

**Want CHAMP in your facility?
Contact us!**

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