



CONCR3DE
YOUR 3D POWDERHOUSE

FLEXIBLE SUPPORT TO MEET YOUR NEEDS

With CONCR3DE, you can benefit from our years of experience through our services focused on joint development, process optimization or co-production. Whether you are looking for a unique research or prototyping platform, industrial or high-tech complex functional parts production or printing large-scale architectural designs: CONCR3DE is your 3D Powderhouse.

[CONCR3DE.COM](https://concr3de.com)

SERVICES & MAINTENANCE



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Binder jetting 3D printing is based on two key elements: a powder and a binder. The powder can be a mineral, metal, ceramic, or other material you want to bond in powder form. The binder is a liquid, which acts as an adhesive between powder layers. Powder is spread across the build platform using a roller. Next, the print head accurately deposits the binder liquid to bind the powder. After each layer, the printed object is lowered on its build platform by the layer thickness. A new layer of powder is deposited, and the process repeats. Unbound powder remains in position surrounding the printed object.

SERVICES

CONCR3DE strives to offer you the best specific support to help you accelerate your research efforts, optimize variables like print speed, accuracy, and mechanical properties, or streamline your production process. Several services are available, depending on your experience with 3D printing, specific objectives, or application.

R&D SERVICE

Our open binder jetting 3D printing platform enables researchers to print previously unimaginable novel materials and binders into complex shapes with full scalability. Our team adds years of experience and a wealth of knowledge, both in hardware, software, process, and materials, to any scientific discovery process. We love to collaborate and facilitate your research.

BINDER DEVELOPMENT SERVICE

Each binder has unique properties in rheology, density and consistency, resulting in different behavior when jetted. Using a drop watcher, CONCR3DE can visualize and characterize the binder droplets exiting the printhead. By means of this service, we can control and adjust drop size, speed and shape to ensure printing quality and stability.

APPLICATION OPTIMIZATION SERVICE

Every time we identify a match between your application, material properties and our printer's abilities, our team is ready to finetune the print process and its results to your objectives. Whether your case aims for cost-efficient production in terms of speed and accuracy or large-scale complex parts with specific properties - this service aims to let you reap the full benefits of our products.

CO-PRODUCTION SERVICE

Once your CONCR3DE large-scale 3D printing production ecosystem is installed and ready for steady output, CONCR3DE can continue to add value. If desired, we can forward third-party production requests we receive in your area, effectively providing you with local leads. Our team is ready and able to support you with material or project advice and pre-production testing - we are here for you.

MAINTENANCE

Maintaining your 3D printers is essential to ensure optimal performance, especially when working with fine and abrasive powders. CONCR3DE includes a basic operator training with every printer installation, which includes a maintenance advice. Based on your process requirements and throughput, we offer customized preventative maintenance and/or service level agreements to ensure the best possible maintenance and support.

The below parts and products are available for maintenance purposes.

| PRODUCT | DESCRIPTION | REPLACE | PACKAGING |
|---------------------------|---|-----------------|-----------|
| Service station wipers | Rubber wipers | Every 2 months* | 10 pcs |
| Printhead cleaning liquid | Low pH cleaning liquid for flushing and cleaning | | 1 liter |
| Printhead dust free wipes | For maintaining printhead, to be used with printhead cleaning liquid or demiwater | | 600 pcs |
| Printhead replacement | Printhead replacement | Every 2 years* | 1 pc |

**Replacement interval depends on use; typical values using certified CONCR3DE binders are shown.*

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