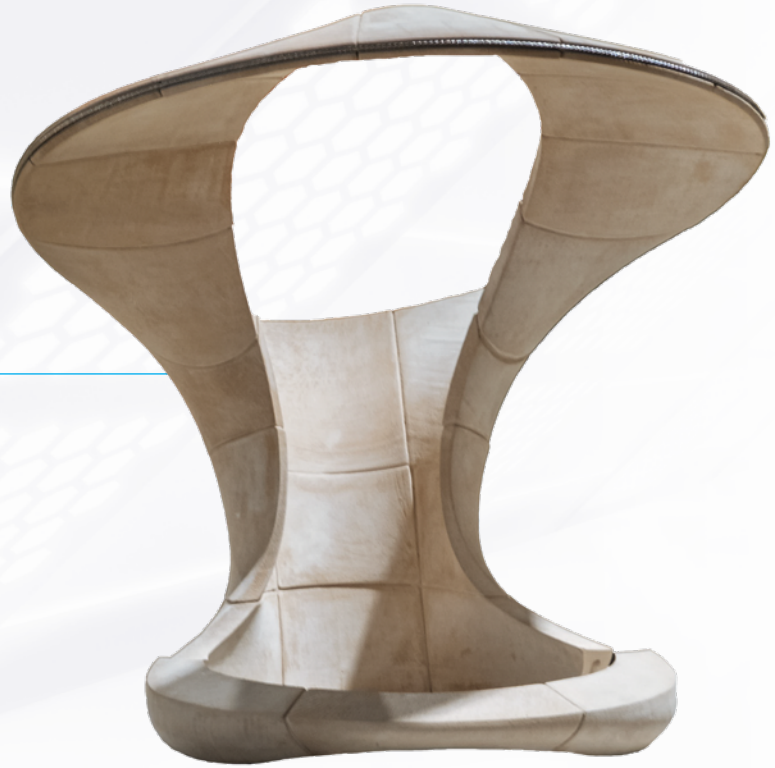
CONCR3DE
YOUR 3D POWDERHOUSE



LARGE-SCALE 3D PRINTING

The usability and applicability of any 3D printing technology is often determined by its maximum print dimensions. Upscaling brings massive cost advantages as well as a range of novel use cases. With an emphasis on 'large' and based on our years of experience, CONCR3DE offers unique binder jetting production systems that allows you to print objects up to an impressive 6 x 3 x 1 meters in size – without compromising on accuracy or versatility.

INDUSTRIAL PRODUCTION

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Our large-scale 3D printer range was designed for the manufacturing of complex shapes and intricate details. CONCR3DE brings the many benefits of binder jet additive manufacturing, including speed, flexibility, in a solution that truly fits the industrial production process. Combining freedom of design and dimensions with exceptional material properties, our large-scale printers offer unprecedented opportunities for architecture, restoration, consumer goods and molding applications.

FITS YOUR MARKET, INFRASTRUCTURE & PROCESS

CONCR3DE customizes your printing solution for optimal integration in your process. Depending on the type of products you would like to print, including material options and dimensional range, we will configure the printer to fully meet your needs. The modular setup allows us to build to order, taking into consideration all important process variables to ensure smooth integration in your facility. The existing production routing and available infrastructure are just a few examples of the topics we will touch on when creating your large-scale 3D printing solution.

SUPERSIZED HIGH RESOLUTION BINDER JET PRINTING

Our large-scale printers consist of a Printing Bar mounted on a gantry. The Printing Bar deposits a thin powder layer covering the entire print box. It then jets the CONCR3DE binder in the shape of the object layer, accurately solidifying the powder. All unused powder can be 100% recycled, and without the necessity for support structures, the print process itself produces zero waste. Traditional large-scale 3D printing technologies often lack the precision to create intricate details. Our printers achieve production runs with a precision of 300 µm. This allows creating any complex shape with unprecedented surface quality.

MATERIALS TO MATCH YOUR PRODUCTS AND AMBITIONS

Our mineral range for large-scale printers includes limestone, granite, and marble compounds, as well as concrete. Like natural stone, these robust materials offer excellent compressive strength and longevity, and are highly suitable for outdoor applications. All materials are optimized for smooth surface printing without further post processing. If your common production material is available in powder form, we can potentially transform it into a custom print material. Even waste streams, like sawdust from stone processing or minerals from urban mining, can be upcycled into new products.

TECHNICAL SPECIFICATIONS	LARGE-SCALE PRINTING
X dimension range	600 mm to 3.000 mm
Y dimension range	1.200 mm to 6.000 mm
Z dimension range	300 mm to 1.000 mm
Custom print box adjustments	Yes
Printhead precision	400 DPI
Layer height	300 µm
Maximum drop size	200 pL
Powder compatibility	CONCR3DE minerals with custom aggregates
Binder compatibility	CONCR3DE aqueous
Maximum power requirements	400 V x 3
Software	NOAH (included)

Visit www.concr3de.com for more information. Would you like us to configure a large-scale printing solution for your application? Send us an email at info@concr3de.com or call +31 (0)85 0606 171.

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