



CONCR3DE
YOUR 3D POWDERHOUSE

ELEPHANT GRAY



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 created an integrated production solution to create large-scale objects in stone-like materials. Introducing: Elephant Gray.

INDUSTRIAL PRODUCTION PRINTING



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Elephant Gray is a unique binder jetting production system that allows printing objects up to 2 x 1 x 1 meters in size – without compromising on accuracy or versatility. Combining freedom of design and dimensions with exceptional material options, Elephant Gray offers unprecedented opportunities for architecture, restoration, consumer goods and molding applications.

INTEGRAL PRODUCTION • Elephant Gray was designed to produce complex shapes and intricate details at scale. CONCR3DE brings the many benefits of binder jetting additive manufacturing, including speed and flexibility, in a solution that truly fits industrial production. From automated powder feeding to swappable Job Boxes and industrial post-processing Stations for automated cleaning, powder recycling and sealing that fit Elephant's print size.

FITS YOUR INFRASTRUCTURE & PROCESS • CONCR3DE customizes your printing solution for optimal integration in your process. Depending on the type of products, including material options and dimensional range, we will configure Elephant Gray to fully meet your needs. The modular Station add-ons allow us take 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 implementing Elephant Gray.

SUPERSIZED HIGH-RESOLUTION PRINTING • Our large-scale Elephant Gray consist of a Printing Bar mounted on a gantry. The Printing Bar deposits a thin powder layer covering the entire Job Box. It then jets the 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. Elephant Gray enables production runs with an accuracy of 50 µm. This allows creating any complex shape with unprecedented surface quality.

MATERIALS TO MATCH YOUR PRODUCTS AND AMBITIONS • Our pre-engineered stone-like material range for large-scale printers includes limestone, granite, and marble. 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. This open platform printer can also print custom mineral formulations - if your current raw material is available in powder form, we can potentially transform it into a custom print material. Even waste streams, like sawdust or minerals from urban mining, can be upcycled into products.

TECHNICAL SPECIFICATIONS

	ELEPHANT GRAY
Print box dimensions (X, Y, Z)	1.000 x 2.000 x 1.000 mm
Accuracy & repeatability (X, Y, Z)	50, 50, 30 µm
Printhead precision	400 DPI
Layer height	300 µm
Capacity	2.000 liters/day
Print speed	54 mm/hour
Powder compatibility	CONCR3DE PS, PF, PR range mineral powders
Binder compatibility	CONCR3DE BS & BR range binders
Connectivity	Ethernet (cable included)
Power requirements	2 x 400 V
Dimensions	2.800 x 6.500 x 4.500 mm
Software	NOAH (included)



Would you like to see more examples of what Elephant Gray can do for you? Visit www.concr3de.com for more information. Are you ready to discuss your production application? Send us an email at info@concr3de.com or call +31 (0)85 0606 171.

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