CONCR3DE
YOUR 3D POWDERHOUSE

ARMADILLO BLUE

At CONCR3DE, we understand the right tools make light work. Our Armadillo Blue binder jetting 3D printer was specifically designed for industry and production. It is dedicated to a range of industrial applications and the manufacturing of a dense 92% alumina. The Armadillo Blue comes with a validated powder, binder and sintering guideline to manufacture complex alumina parts at unprecedented scale.

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THE STANDARD FOR CERAMIC MANUFACTURING

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Armadillo Blue is the cost-efficient production platform of choice to create high-quality products and parts in materials like technical ceramics and metals. This printer is compatible with any CONCR3DE powder and binder and features several additional modules that make it highly suitable for high tech materials and applications It offers a large workspace based on our high precision jetting system and comes with our intuitive open software.

EXCEPTIONAL POWERHOUSE

VALIDATED MATERIALS • Armadillo Blue supports a fully validated 92% alumina material, developed in collaboration with our partners WZR and Nabaltec. In the future new ceramic materials will be introduced to work on the system. If you are looking use Armadillo Blue to print a specific compound, our experienced team is at your service to advise and support.

MATERIAL CHARACTERISTICS	
Product name	CerPrint binder and Nabalox powder
Method of manufacture	Binder jetting (Armadillo Blue)
Chemistry	92 wt% Al2O3
Bending strength	> 150 MPa
Open porosity	< 7 %
Density	> 3,2 g/cm³

PRODUCTION AT SPEED • The Armadillo Blue is a true pow(d)erhouse. Binder jetting is known to be fast - with the Armadillo Blue you can print up to 35.000 cm3 of parts per day. Including sintering the process from printing your model to having a finished part in your hand is less than 72 hours, meaning you can go full speed ahead every day of the week.

FULL PROCESS CONTROL

DESIGNED FOR CERAMICS • Armadillo Blue includes an integrated control station with our NOAH software pre-installed on optimized hardware. The software features predefined printing profiles for alumina 3D printing. Use the software to optimize the amount of parts in your print, and view printing progress to optimize your workflow. The printer itself features integrated temperature control, an IR heater and automatic safety and clearning procedures.

TECHNICAL SPECIFICATIONS	ARMADILLO BLUE
Print box dimensions	370 x 260 x 250 mm
Capacity	24.000 cm³ / day
Printhead precision	400 DPI
Layer height	130 µm
Powder compatibility	Nabalox alumina powder
Binder compatibility	CerPrint, G3CO Aqueous
Connectivity	Ethernet (cable included)
Power requirements	230 V
Dimensions	1.600 x 1.100 x 1.600 mm
Space requirements	2.400 x 2.000 x 2.200 mm
Weight	450 kg
Software	NOAH (included)

PARTNERSHIPS YOU CAN RELY ON • Our unique 92% alumina material was developed in collaboration with the best companies in the ceramics industry: WZR and Nabaltec. Our combined hardware and material knowhow made this material possible. The secret of the material's density is in the particle filled binder that closes any pores existing in the powder, making it different from other porous materials resulting from the binder jetting process.

Nabaltec

WZR ceramic solutions

Learn more about Armadillo Blue on www.concr3de.com. Are you ready to discuss your application? Send us an email at info@concr3de.com or call +31 850 606 171.

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