



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 high-tech applications. All dedicated add-ons most frequently requested for printing a wide range of ceramics mixes and metals come standard in this high-performance workhorse.

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

THE STANDARD FOR INDUSTRY & HIGH-TECH



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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 MATERIAL VERSATILITY

VALIDATED MATERIALS • Armadillo Blue supports a range of fully validated metals and technical ceramics. Current options include alumina, silicon carbide, stainless steel S316L, copper and more. Several exciting additions are currently in their final development phase. If you are looking to use Armadillo Blue to print a specific compound, our experienced team is at your service to advise and support.

INFRARED HEATER • Certain powders require high temperature curing or bind faster at higher temperatures. The Infrared Heater is based on a powerful infrared curing lamp and allows you to control the print bed temperature. The Infrared Heater makes it possible to increase the temperature up to 80°C. The Infrared Heater can be conveniently managed through our NOAH software.

FULL PROCESS CONTROL

INTEGRATED NOAH CONTROL • Armadillo Blue includes an integrated control station with our custom and fully open NOAH software pre-installed on optimized hardware. NOAH offers full access to all parameters of the printing process and controls the add-ons. Set layer heights, temperature, speed, binder saturation and more. The slicer enables adjusting the geometry of a every layer or importing complex geometries.

REDUCTION INSERT • When testing materials for specific application, the ability to print small parts using a limited amount of powder significantly improves efficiency. The print size Reduction Insert was designed for testing purposes, reducing time, costs, and waste. It is especially useful when using high-value materials such as precious metals, reducing the total material required to start producing to less than 1 liter, or print dimensions of 100 x 100 x 80 mm.

DEPOWDERING BOX • This metal tool has identical dimensions to the Armadillo Blue print bed. It allows for easy removal of an entire print volume for post-processing without the need to depowder in its green state. The Depowdering Box is a great fit with fragile parts that require oven curing, such as ceramics. The Depowdering Box is compatible with mechanical lifting tools, such as forklifts or hoists.

TECHNICAL SPECIFICATIONS

ARMADILLO BLUE

Print box dimensions	370 x 290 x 250 mm or 440 x 440 x 250 mm
Capacity	49 or 96 liters/day
Printhead precision	400 DPI
Layer height	40 – 500 µm
Maximum drop size	200 pL
Powder compatibility	Metals, ceramics, and more
Binder compatibility	CONCR3DE aqueous & solvent
Connectivity	Ethernet (cable included)
Power requirements	230 V
Dimensions	1.700 x 1.200 x 1.600 mm
Space requirements	2.400 x 2.000 x 2.200 mm
Weight	650 kg
Software	NOAH (included)

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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