Specifications

Technology	DLP
Printing build volume (X,Y,Z)	200 x 200 x 300 mm | 7.87 x 7.87 x 11.81 inch (80 µm) 200 x 160 x 300 mm | 7.87 x 6.30 x 11.81 inch (62.5 µm) 160 x 128 x 300 mm | 6.30 x 5.04 x 11.81 inch (50 µm) 100 x 89 x 300 mm | 3.94 x 3.50 x 11.81 inch (35 µm) *Optional increase of Z stage, up to 500 mm | 19.69 inch
Layer thickness	10 - 200 µm
Build speed	Up to 300 layers per hour
Machine dimension (WxHxD)	1282 x 1900 x 1000 mm | 50.47 x 74.80 x 39.37 inch
Weight	ca. 500 kg | 1100 lbs
Required working temperature	22 +/- 2°C
Required working humidity	< 40%
Connectivity	Ethernet, USB
Power requirements	110 / 230 V
File compatibility	SLC, STL
Final product density	Technical ceramics > 98.5% - 99.8%* Metals > 99%* *depending on sintering curve

ADMATEC

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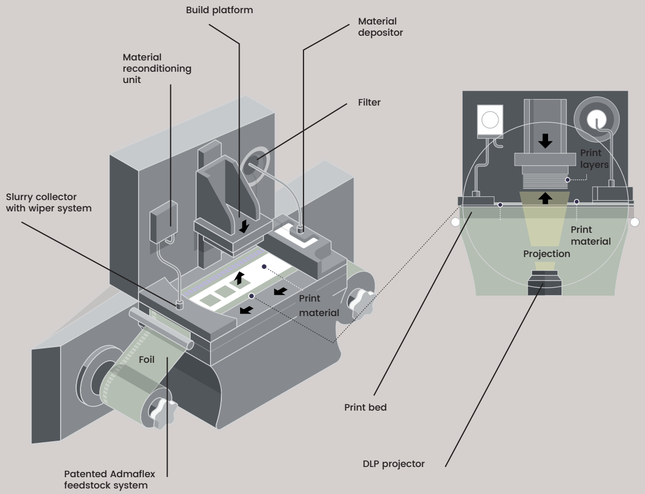
Admaflex 300

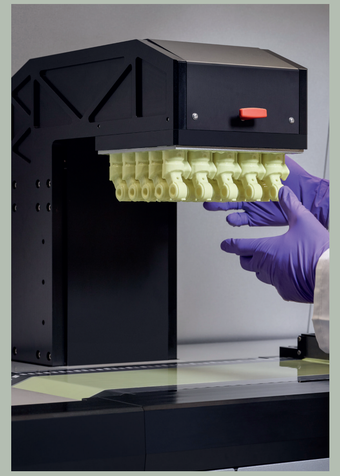
DLP 3D printer

High-volume ceramic and metal 3D printing for production and development

Design and Functions

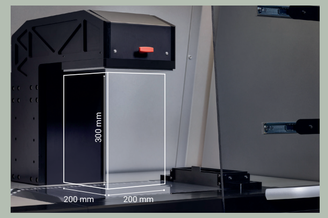
The unique design and functions of the Admaflex Technology





Featuring a large build volume and the unique capability of 3D printing both advanced ceramics and metals on one machine, optimized for high precision casting applications of silica shells and cores.

Features



Large build volume

The Admaflex 300 has an extreme stable machine concept for production, capable of handling feedstocks with a broad range of viscosities. The printer comes with a standard build volume of 200x200x300 mm. It was designed to meet the demands of customers using the Admaflex technology for investment casting applications.

Modular concept

The Admaflex 300 is designed with a modular concept, to accommodate all future developments such as multi-material printing. You can also choose the resolution and building volume that meet your needs.

Benefits

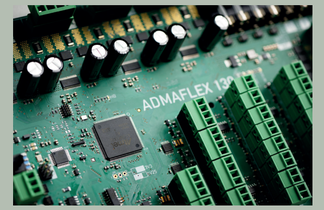
Custom to your needs and budget
Access to future upgrades
Best value for money

Open platform

The Admaflex 300 is an open system that provides full control of the printing process. The software features the ability to customize parameters, enabling layer-to-layer control before and during the printing process. It opens up the opportunity to use different materials, and the flexibility to develop new ones. A standard software feature is the "multi-part printing", that enables you to control light exposure settings for each part and layer.

Benefits

Research and development freedom
Open to the use of your own and other materials
Increased efficiency

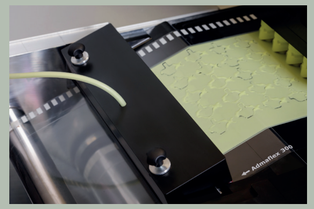


Patented feedstock system

The Admaflex 300 has an integrated high-volume material handling system with automatic vision controlled dosing to enable 3D printing of large components. It was designed to effectively handle materials with high viscosity, normally associated with ceramic slurries, enabling high reliability and speeds for continuous high-throughput and high volume production. This innovative system also enables efficient feedstock management by reusing the excess material.

Benefits

Produce large components
A clean workplace and no material waste
Quick and easy material switch
High throughput



In-process monitoring system

The integrated in-process quality monitoring is an excellent feature for full traceability of the printing process. These software and hardware components monitor temperature, humidity and foil usage. It also has a dual camera system for real-time video capture, and time-lapse recording. This allows the user for example to partially stop printing a defected product to allow the successful finalization of the remaining parts.

Benefits

Receive warnings and pause the print automatically when a problem is detected
Documented proof of the printing process
Increased throughput