ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION

Aconity MIDI

EQUIPMENT JOB SHOP CONSULTING MATERIAL DISTRIBUTION TESTING FACILITIES

Aconity*MIDI*

The Aconity***MIDI*** is Aconity3D's solution for a flexible production system. Equipped with an optional second process chamber, this system allows for parallelizing setup times while the main system is still producing. Additionally, process monitoring or high temperature preheating of up to 1200 °C are available for this system.

As for all Aconity systems, the Aconity***MIDI*** is equipped with the control software Aconity***STUDIO*** which allows access to all relevant process parameters and machine components. The web-based user interface provides comfortable acces to all functions from a remote desktop, within your office – if desired.

TECHNICAL SPECIFICATIONS

BUILD SPACE	Ø 170 mm x H 200 mm
OPTIONAL BUILD SPACE REDUCTION	Ø 100 mm x H 200 mm Ø 55 mm x H 200 mm
LASER CONFIGURATION	1 x Green wavelength Single Mode 200 W / 500 W Up to 4 x Infrared wavelength Single Mode 200 W / 400 W / 500 W / 700 W / 1000 W / 1200 W AFX
OPTICS CONFIGURATION/ SPOT SIZE	F-Theta / 80 µm 3D Scanning / 80 – 500 µm 3D Scanning Green / 50 – 250 µm Multi Mode AFX with ring-shaped intensity profile
PROCESS MONITORING OPTIONS	Coaxial pyrometer Coaxial high speed CMOS
PREHEATING TEMP/ HEATED AREA	500 °C / Ø 170 mm x H 180 mm 800 °C / Ø 100 mm x H 180 mm 1200 °C / Ø 70 mm x H 150 mm
FULLY ADAPTABLE PROCESS PARAMETERS	Maximum flexibility for application development
LAYER THICKNESS	Down to 10 µm
INERT GAS TYPE/ PRESSURE	Argon 4.6 / 6 bar Nitrogen / 6 bar
OPTIONAL INERTIZATION SYSTEM	Vaccum < 2 mbar
OPTIONAL ADDITIONAL BUILD CHAMBER AND SETUP STATION	Parallelized machine setup
INERT GAS CONSUMPTION	< 5 l/ min during process < 30 l / min during purging < 5 l/ min for vacuum
RESIDUAL OXYGEN CONTENT	<100 ppm
MACHINE DIMENSIONS (W x D x H)	2170 mm x 1590 mm x 2340 mm
MACHINE WEIGHT W / 0 POWDER	1450 kg