



ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION



ACONITY MIDI



EQUIPMENT



JOB SHOP



CONSULTING



MATERIAL
DISTRIBUTION



TESTING
FACILITIES

ACONITY **MIDI**

The **ACONITY MIDI** is Aconity3D's approach towards 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 also 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 allows comfortable access to all functions from a remote desktop, within your office – if desired.

TECHNICAL SPECIFICATIONS

BUILD SPACE	Ø 170 mm x H 250 mm
OPTIONAL BUILD SPACE REDUCTION	Ø 100 mm x H 250 mm Ø 55 mm x H 250 mm
LASER CONFIGURATION	Single Mode Fiber 400 W / 1000 W
OPTICS CONFIGURATION / SPOT SIZE	F-Theta / 80 µm 3D Scanning / 80 - 500 µm
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	Vacuum / 1 mbar
OPTIONAL ADDITIONAL BUILD CHAMBER AND SETUP STATION	Parallelized machine setup
INERT GAS CONSUMPTION	< 5 l / min during process < 30 l / min during purging
RESIDUAL OXYGEN CONTENT	< 100 ppm
PRESSURIZED AIR TYPE / PRESSURE	ISO 8573-1:2010 [1:4:1] / 6 bar
PRESSURIZED AIR CONSUMPTION	< 50 l / min
MACHINE DIMENSIONS (W X D X H)	2170 mm x 1590 mm x 2340 mm
MACHINE WEIGHT W/O POWDER	1385 kg

*In collaboration with Fraunhofer ILT