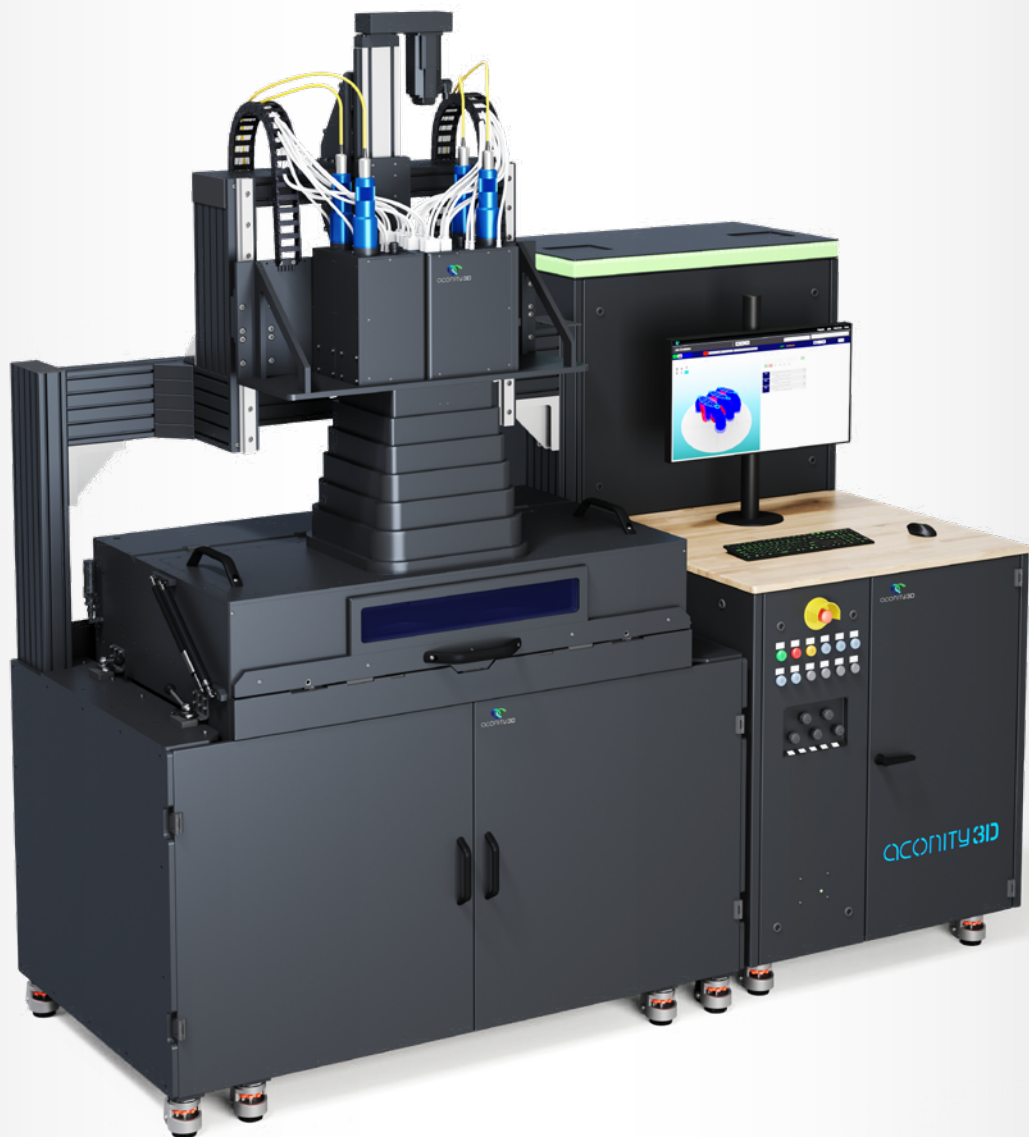




ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION



Aconity **MIDI+**



EQUIPMENT



JOB SHOP



CONSULTING



MATERIAL
DISTRIBUTION



TESTING
FACILITIES

AconityMIDI+

The AconityMIDI+ represents Aconity3D's machine concept for efficient industrial LPBF application. The exchangeable process chamber allows for parallelized setup times yielding decreased part costs. For maximum material flexibility and quality assurance, high temperature preheating of up to 1000 °C and Aconity3D's all new process monitoring system are ready to use. The AconityMIDI+ is also available with up to four lasers in the QUATTRO-Laser configuration, further increasing productivity.

As for all Aconity systems, the AconityMIDI+ is equipped with the web-based control software AconitySTUDIO, allowing for remote 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 250 mm x H 250 mm
OPTIONAL BUILD SPACE REDUCTION	Ø 170 mm x H 250 mm Ø 100 mm x H 250 mm Ø 55 mm x H 250 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	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 / BUILD SPACE	500 °C / Ø 250 mm x H 180 mm 1000 °C / Ø 150 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 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
MACHINE DIMENSIONS (W x D x H)	2700 mm x 1800 mm x 3000 mm
MACHINE WEIGHT W/O POWDER	1600 kg