



ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION



Aconity **MINI**



EQUIPMENT



JOB SHOP



CONSULTING



MATERIAL
DISTRIBUTION



TESTING
FACILITIES

Aconity**MINI**

The Aconity**MINI** represents Aconity3D's entry-level AM system. With a build space of Ø 140 mm and full access to all relevant process parameters, this system is designed for efficient material research. Additionally, a preheating device, process monitoring or changed laser configurations are available for this system to meet maximum customer benefit.

As for all Aconity systems, the Aconity**MINI** 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 140 mm x H 190 mm
OPTIONAL BUILD SPACE REDUCTION	Ø 55 mm x H 190 mm
LASER CONFIGURATION	1 x Green wavelength Single Mode 200 W / 500 W 1 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 140 mm x H 150 mm 800 °C / Ø 100 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 / > 2 mbar
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)	2050 mm x 1500 mm x 2295 mm
MACHINE WEIGHT W/O POWDER	1155 kg