



ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION



Aconity *TWO*



EQUIPMENT



JOB SHOP



CONSULTING



MATERIAL
DISTRIBUTION



TESTING
FACILITIES

Aconity**TWO**

The Aconity**TWO** represents Aconity's newest solution for efficient industrial LPBF production. Its large build envelope of Ø 400 mm x H 400 mm alongside with the Easy-Access machine cover allows for production of large parts at minimum set-up times and, thus, reduced manufacturing costs. For maximum material flexibility and quality assurance, high temperature preheating of up to 800 °C and Aconity3D's all new process monitoring systems are available.

The Aconity**TWO** is also available with up to 4 Lasers in the QUATTRO-Laser configuration, to increase productivity even further.

As for all Aconity systems, the Aconity**TWO** is equipped with the web-based control software Aconity**STUDIO**, 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 400 mm x H 400 mm
OPTIONAL BUILD SPACE REDUCTION	Ø 200 mm x H 400 mm
LASER CONFIGURATION	1x Green wavelength Single Mode 200 W / 500 W Up to 4x 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 / HEATED AREA	500 °C / Ø 350 mm x H 200 mm 800 °C / Ø 200 mm x H 200 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
INERT GAS CONSUMPTION	< 5l / min during process < 30l / min during purging
RESIDUAL OXYGEN CONTENT	< 100 ppm
MACHINE DIMENSIONS (W x D x H)	3000 mm x 700 mm x 3000 mm
MACHINE WEIGHT W/O POWDER	1600 kg