



ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION



ACONITY TWO



EQUIPMENT



JOB SHOP



CONSULTING



MATERIAL
DISTRIBUTION



TESTING
FACILITIES

ACONITYTWO

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

The **ACONITYTWO** is also available with up to two 4 Lasers in the **QUATTRO-LASER** configuration, further increasing productivity.

As for all Aconity systems, the **ACONITYTWO** is equipped with the web-based control software **ACONITYSTUDIO**, allowing for remote access to all relevant process parameters and machine components

TECHNICAL SPECIFICATIONS

BUILD SPACE	Ø 400 mm x H 400 mm Ø 200 mm x H 400 mm
LASER CONFIGURATION	Up to 4x Single Mode resp. AFX Multi Mode 400 W / 500 W / 700 W / 1000 W / 1200 W AFX
OPTICS CONFIGURATION / SPOT SIZE	3D Scanning / 80 - 500 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 400 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	< 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)	3000 mm x 1700 mm x 3000 mm
MACHINE WEIGHT W/O POWDER	1600 kg