



# aconity3D

ELABORATING YOUR ADDITIVE PRODUCTION



## Aconity *TWO*



EQUIPMENT



JOB SHOP



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# 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                | 1 x Green wavelength Single Mode 200 W / 500 W<br>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<br>3D Scanning Green / 50–250 µm<br>Multi Mode AFX with ring-shaped intensity profile                                  |
| PROCESS MONITORING OPTIONS         | Coaxial pyrometer<br>Coaxial high speed CMOS                                                                                                   |
| PREHEATING TEMP / HEATED AREA      | 500 °C / Ø 350 mm x H 200 mm<br>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<br>Nitrogen / 6 bar                                                                                                          |
| INERT GAS CONSUMPTION              | < 5 l / min during process<br>< 30 l / 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                                                                                                                                        |