



Aconity MIDI+









Aconity**MIDI+**

The Aconity *MIDI+* represents Aconity3D's machine concept for efficient industrial LPBF application. The exchangable 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 Aconity*MIDI+* is also available with up to four lasers in the QUATTRO-Laser configuration, further increasing productivity.

As for all Aconity systems, the Aconity *MIDI+* 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.

| 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 | Aaximum 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 | <pre>< 5l/min during process </pre> <pre>< 30l/min during purging</pre> |
| 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 |

TECHNICAL SPECIFICATIONS