



ACONITY 3D

ELABORATING YOUR ADDITIVE PRODUCTION



ACONITY MICRO



EQUIPMENT



JOB SHOP



CONSULTING



MATERIAL
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FACILITIES

ACONITY MICRO

The **ACONITY MICRO** is Aconity3D's very first compact semi-configurable system, designed towards one sole application: MICRO L-PBF. At such, the systems combines a small spot size down to 40 µm and the ability to spread very fine powders in layer thicknesses of < 10 µm due to Aconity3D's revolutionary vibrating powder deposition.

Further highlights are the completely extractable powder cylinders and built tray, which enable end users to perform a very fast material change and quick start of the process.

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

TECHNICAL SPECIFICATIONS

BUILD SPACE	Ø 100 mm x H 150 mm
LASER CONFIGURATION	Single Mode 200 W / 400 W
OPTICS CONFIGURATION / SPOT SIZE	F-Theta / 40 µm 3D Scanning / 50 - 250 µm
POWDER CYLINDER / BUILD CYLINDER	Completely exchangeable for fast material change
POWDER DEPOSITION	Bidirectional & vibrating
LAYER THICKNESS	10 - 100 µm
MAX SCAN SPEED	12 m/s
INERT GAS TYPE / PRESSURE	Argon 4.6 / 6 bar Nitrogen / 6 bar
INERT GAS CONSUMPTION	< 5 l / min during process < 20 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)	2000 mm x 1000 mm x 1700 mm
MACHINE WEIGHT W/O POWDER	850 kg