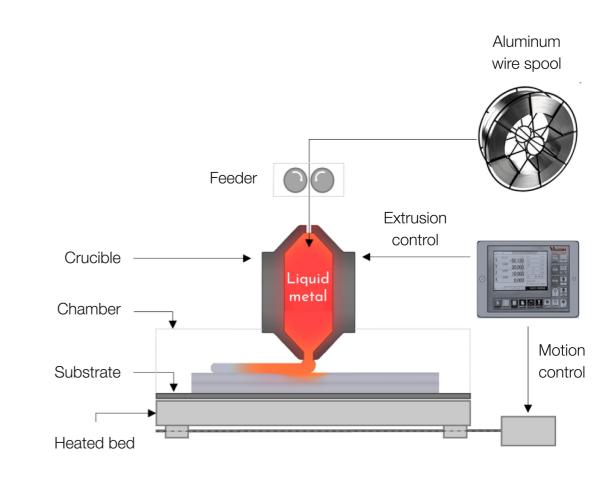


A new technology

Using our proprietary Molten Metal Deposition (MMD) technology, the Minerva printer enables sustainable, productionready aluminum 3D printing, similar to Fused Filament Fabrication (FFF) for polymers. Our mission is to make metal additive manufacturing accessible with a deployable, safe, and user-friendly solution for industry.



Fits through a normal doorway, has a regular 220V plug, single

With exciting benefits

DEPLOYABLE

step process using regular aluminum wire, and is safe to operate in any environment. We aim for the unmodified aluminium alloys, known and trusted

TRUSTED MATERIALS

by the industry. Extension towards copper, magnesiums and polymers ensures material flexibility. Achieving a 75-90% cost reduction compared to other AM

COST-EFFECTIVE

solutions through process-wide cost-effectiveness.

1.1 tons

Printer specifications

Weight: Machine Footprint:

780 mm x 1600 mm (2.56 ft x 5.25 ft) 2280 mm (7.48 ft) BS300 wire spool for 1.2 mm

Machine Height: Feedstock provision: Movement system:

Environmental control:

4 axis: Cartesian XYZ + C-axis rotation Local shielding gas, max 2.5 bar, 2.5 L/min Ø 125 mm x 200 mm (Ø 4.9 in x 7.9 in)

Build volume: Enclosure:

Enclosed build chamber up to 200°C Rated 2.5 kW, nominal 1.3 kW 950 W chiller included

USB, WiFi, Ethernet, cloud based data access

Ø 200 mm x 200 mm extension kit (Ø 7.9 in x 7.9 in)

Energy consumption: Cooling: Interface: Connectivity:

Throughput: Max build rate of 820 cm³/h Dimensional accuracy: Track width: 0.8 – 4 mm

Process specifications

Touch screen

Layer height: 0.5 – 2.5 mm Max overhangs:

75° overhang, 25 mm bridge



Molten Metal Deposition (MMD) offers a range of applications for research Sirris, a Belgian research institute, is currently using our institutions and universities. Think Minerva printer to develop business cases for its clients. material science research, engineering

Applications & Collaborations

practices, automation, as well as more interdisciplinary applications.

We're also involved with several other

projects that aim to push the envelope of

3D printing and additive manufacturing.

LEVIATAD, and GreenAM, as well as a

collaboration with the European Space

Projects like as 3DoP, DIAMETER,

OTHER COLLABORATIONS:

applications, sustainable manufacturing

innovation

CLIENT SPOTLIGHT:











European



ValCUN's 3D-optimized fan blades boost efficiency by 10%, generating

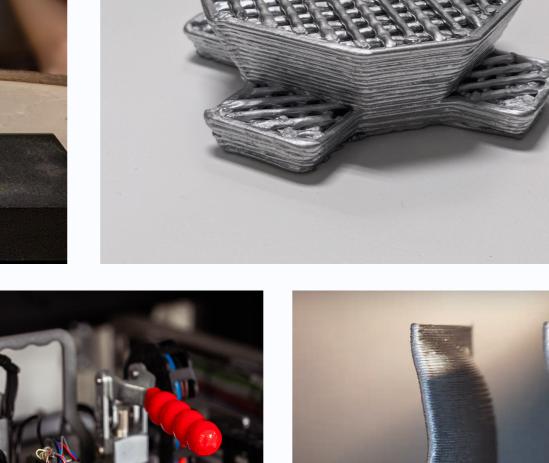
over €6 million in annual electricity savings across 7,000 fans in more

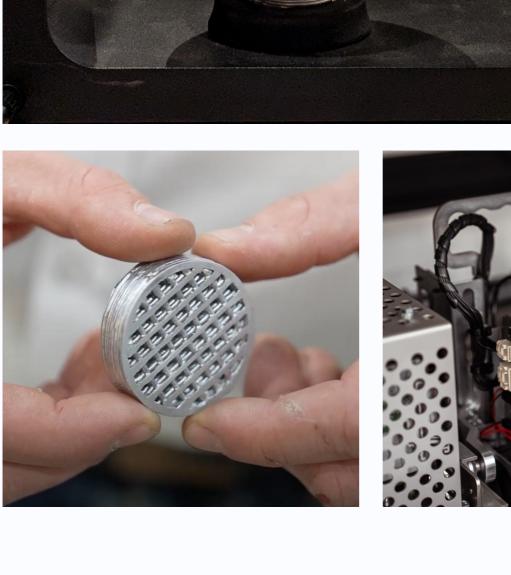
than 10 data centers. ValCUN's technology delivers these results with

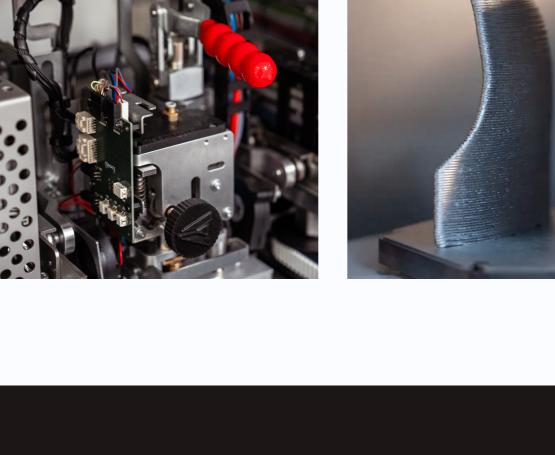
cost-effective investment for manufacturers.



"Metal AM can unlock a new era for industrial manufacturing, but only with a deployable and cost-effective solution. This is what ValCUN does!" Dr. ir. JONAS GALLE, CEO







Have any questions or interested in a discovery call? Feel free to leave us a message, and our team will get back to you as soon as possible to provide the information you need.



9041 Ghent, Belgium info@valcun.be