



ValCUN's Molten Metal Deposition

Reducing Lead Times & Ensuring Parts Availability

- Direct, on-demand manufacturing
- Automated, straightforward pre & post-processing

Sustainable and Environmentally Friendly

- Energy efficient and low LCA
- No toxic chemicals, requires only basic safety measures

Deployable and Easy-to-Use

- Off the shelf wire feedstock, eliminating powder hassle
- User-friendly system with fast ramp-up

ValCUN's Minerva Machine (Taking pre-orders for Q1-2024 delivery)

Printer dimensions	Footprint 75cm x 150cm (2.5ft x 5 ft) Height 2.3m (7.5ft) pre-install through regular door
Build volume	Ø 125 x 200mm ³ (Ø 4.9in x 7.9in) Ø 200 x 200 mm ³ extension kit (Ø 7.9in x 7.9in)
Energy consumption	Rated 2.5kW Nominal 1.2kW
Electrical connection	230V / 50Hz 110V / 60Hz
Shielding gas supply	2.5bar, max 10L/min

Molten Metal Deposition (MMD) process

Materials	Open materials, 1.2mm wire ValCUN qualifying & supplying aluminum 4008, 4043, 6061, 6082		
Nozzle temperature	700°C - 900°C		
Bed temperature	400°C - 600°C		
Shielding gas	Argon 99.999%		
Resolutions	Nozzle [mm]	1	2
Smaller and larger upon request	Track width [mm]	0.8-1.5	1.5-2.5
	Layer height [mm]	0.5-0.8	0.7-1.3



These specifications are subject to change without notice. Contact ValCUN for the latest available information