

# ANiMA A1

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## Compact Industrial Metal 3D Printer for **Research** and Manufacturing.

Optimized for European Production Environments.  
Developed by **experienced European engineers in  
metal additive manufacturing.**



# ANiMA A1



## Affordable Entry Level Solution

**Technology:** Selective Laser Melting

**Build Size (XY):** 160mm(X) x 160mm(Y)

**Build Size (Z):** 210mm(Z) including building platform



### Build Volume Size Reducer

Add on device that enables material testing, using minimal amount of powder

### Single or Double Side Recoating



1/2 material needed and 1/2 time saved



### Side Access Door

Easy access to the printer chamber without disturbing the atmosphere inside

### Glove Box Design Front Door



Allows daily maintenance without contact with powder material



### Extended Filter Change Intervals

Unique filter-cleaning automation reduces cost and labor.

### Wide Variety of Materials



Stainless Steel / Die Steel / Titanium Alloy / Aluminum Alloy / Co-Cr Alloy / Nickel Alloy / Cuprum, etc.

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## Industry Applications

Research

Education

Industrial Manufacturing

Automotive

Service Bureaus

Tooling Production

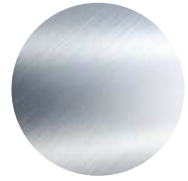
## Materials



Stainless Steels



Nickel Alloys



Aluminum Alloys



Cobalt Chromium Alloys



Titanium Alloys

The **ANiMA A1** is a compact yet highly versatile metal 3D printer engineered to meet the demanding needs of **research institutions, material scientists, and advanced process developers.**



Build Volume Reducer

The **Build Volume Reducer (BVR)** module is a custom-designed solution developed by our team, in close collaboration with the manufacturer, to address the specific needs of **research institutions and material development labs.** This proprietary module introduces a level of **flexibility** and **efficiency** not typically available in standard metal AM systems, allowing rapid iteration and material changeover with minimal powder usage.

# Build Volume Reducer

# Key ANiMA A1 Technical Specifications



<b>Build Volume</b>	160mm (X) x 160mm (Y) x 210mm (Z)
<b>BVR (Build Volume Reducer)</b>	Φ50mm x 80mm
<b>Machine Size (W x D x H)</b>	1.10m x 1.30m x 1.85m
<b>Laser Power</b>	Fiber 500W
<b>Components</b>	IPG or Max Laser, Scanlab Galvos, Siemens PLCs, Panasonic automation, Omron sensors etc.
<b>Recoating</b>	Bi-directional
<b>Layer Thickness</b>	0.02mm - 0.08mm
<b>Materials</b>	Aluminum, Stainless Steel, Die Steel, Titanium, CoCr, Copper, Nickel Alloys



## A1 Technical Advantages

**High Accuracy:** Achieves up to 0.05mm, ensuring precise manufacturing.

**Precision:** ±0.01mm print head repeatability.

**Efficient Optical Scanning:** High-speed scanning galvanometer with adjustable beam diameter (0.04-0.15mm) enhances productivity.

**Open Parameters - Open Materials:** More than 200 parameters are available to users.

**Open Software:** GCode editing and custom parameters.

**Speed & Safety:** 3 stage explosion proof filter system, O<sub>2</sub> monitoring sieving system, and drying oven for quick, secure testing.

**Efficiency:** 50.000h filter life, transfer chamber.

**Reliable & Robust:** Top - tier components. **Built for 24/7 production.**

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