

MoldJet Technology Industrial Metal & Ceramic AM

- High Productivity
- Safe, Powder-Free Environment
- Industry Standard Material Properties
- Lowest Cost Per Part

Key Advantages



Enabling serial production

- > Uniform, repeatable manufacturing across trays, high density (>99%), and accuracy of parts
- > AI powered real-time quality inspection and correction
- Range of sizes; 0.2mm up to 350mm
- High productivity & lowest cost per part



Wide variety of materials

- > System supports both metal and ceramic
- Based on standard MIM powders
- Quick, safe, and clean materials changeover



Green & safe industrial environment

- A powder-free process, enabled by a paste-based feedstock
- A hands-free post process
- > Low energy consumption, operates in standard industrial environment
- Easy and safe handling of green parts

Tritone

Tritone Dominant // System Specifications

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Number of trays: 6, simultaneous and independent

Each build tray dimension: 400 x 240 x 120 mm (L x W x H)

Throughput: 1,600 cc/h

Total build volume: 70,000 cc



Nominal layer thickness: Adjustable 25 - 150 µm

Machine footprint: 3200 x 3500 x 2200 mm (L x W x H)



Tritone Dim // System Specifications

Number of trays: \bigotimes 4, simultaneous and independent Each build tray dimension: $\overbrace{\square}$ 220 x 120 x 90 mm (L x W x H) **Throughput:** 220 cc/h **Total build volume:**) J 10,000 cc Nominal layer thickness: Adjustable 25 - 150 µm Machine footprint: 2100 x 1965 x 1935 mm (L x W x H)



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Technologies Comparison

	Legacy AM Technologies		Tritone	
	Powder Bed Fusion (Laser / EBeam)	Powder Bed Binder Jet	MoldJet	
Accuracy & Repeatability	•	•	٠	
Throughput	•	•	٠	
Exposure to Powders	•	•	•	
Material Variety	•	•	٠	
Parts Size	•	•	•	
Post Processes	•	•	•	
Labor Intensity	•	•	•	

Existing AM technologies still face challenges and do not meet market requirements of mass production and accuracy.

- Tritone's MoldJet technology is the only solution in the market which offers accuracy combined with high throughput at production scale.
- MoldJet technology is highly flexible, allowing to switch between different materials in under 30 minutes.

Materials

Family	Туре	Applications examples
Stainless Steel	316L 17-4PH 15-5PH 420	
Tool Steel	H13 M2	
Low Alloy Steel	4340 4140	
Super Alloys	Inconel 718	
Titanium	6-4	
Copper Alloys	Pure Copper	
Ceramic	Alumina	

 Tritone evaluates new materials on an ongoing basis.
Please inquire if your material of interest is not listed.