

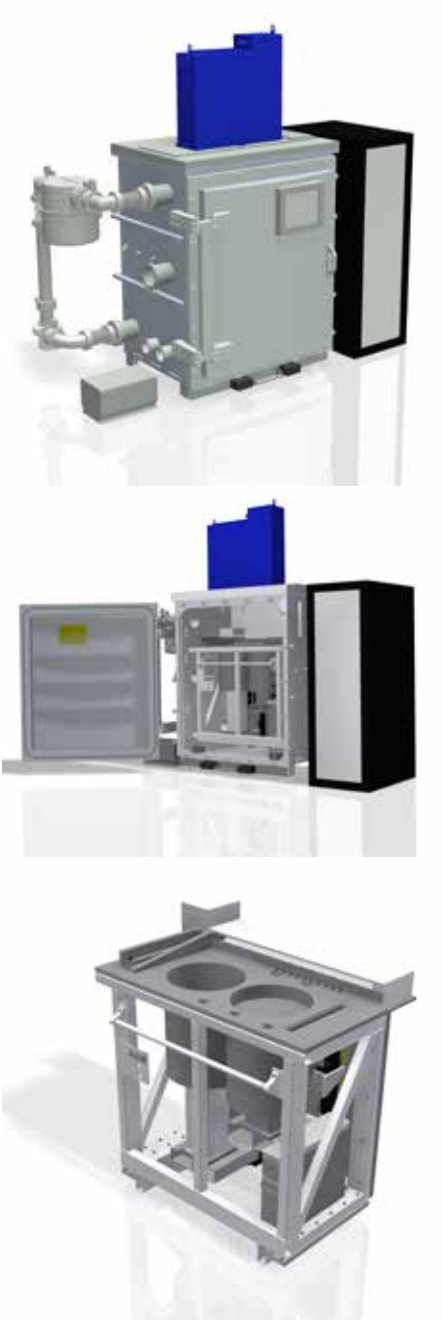
MatterFab: T4 Metal Additive Manufacturing System



Raising the Bar on Industrial Metal 3-D Printing

The Matter Fab T4 sets a new standard for industrial metal additive manufacturing starting with a best-in-class, proven, 1-kW, industrial fiber laser. The rigid and modular architecture provides a platform with structural integrity that exceeds the competition. The T4's fume extraction system has been designed with advanced computational fluid dynamics (CFD) and validated experimentally to standards based upon high capacity welding fume extractors to provide cleaner processing and chamber controls.

To address the challenge qualifying printed 3-D metal parts for demanding applications in aerospace and automotive industry first system process monitoring and accessible system controls have been incorporated. The T4 represents the first step at unleashing the promise of additive manufacturing.



Preliminary Specifications

Laser Scanner System

Power	1 KW
Type	Fiber
Wavelength	1080 nm
Spot Size	50-110 um, variable
Pointing Accuracy	< 2 um
Max Speed	4 m/s

Dimensional Accuracy	Adjustable
Minimum	10 um

Build Volume.	Cylindrical
Diameter	345 mm, 13.6 in
Depth	390 mm, 15.4 in
Volume.	36,458 cc, 2225 cubic inches

Materials	Cobalt Chrome Stainless Steel
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Dimensions.	W x D x H 2.5 x1.2 x2.7m 98 x 48 x 106 in
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