



## CS250 Metal AM Printer with Controlled Atmosphere Options



High performance Directed Energy Deposition (DED) system for research and high volume production. Processes all common alloys, including steels, titanium and aluminum.

**Compact, all-in-one machine enclosure for easy transport and integration**

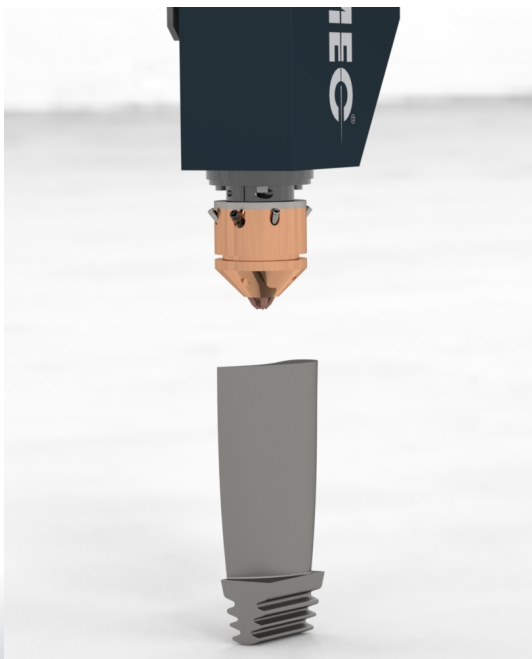
- 250 x 250 x 250 mm standard build volume
- 3, 4 or 5 axes of motion, including simultaneous coordination
- Available with inert atmospheric control for processing reactive metals such as titanium and aluminum
- Up to 4 front-mounted powder feeders for easy access
- Operator-friendly Omron/Delta Tau motion controller

### LENS Print Engine

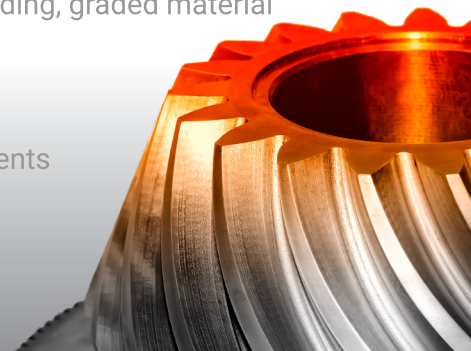
- Adjustable laser spot size with optional automation for change-on-the-fly operation
- 500 W standard diode laser with options up to 2 kW
- Optional Premium laser for reflective material like copper and aluminum alloys
- Optional AutoCLAD™ integrated vision and control for adaptive laser cladding and repair of components
- Optional melt-pool sensor for closed loop process control

### Applications

- Materials research, alloy blending, graded material deposition
- Laser cladding
- Production repair of components
- 3D part printing



*Preliminary specification, subject to change*



# LENS CS250 DED Metal Additive System



CS250 Shown with Controlled Atmosphere Option

CS250 System Specifications		
Automation	XYZ travel distance	250 x 250 x 250 mm
	Number of axes	3-5
	Resolution	0.001 mm
	Max part mass	23 Kg
Deposition System	Controller	Omron/Delta Tau, PMAC
	Laser	500-2000 W IR optical fiber laser, optional premium laser for processing Al and Cu
	Enclosure	CDRH Class 2 laser enclosure
	Standard powder feeders	One front-mounted powder feeder; up to 4 in total
	Optional atmospheric control	Continuous purge system, <20 ppm oxygen, or automated gas recirculation system, <10 ppm oxygen
	AutoCLAD Adaptive Toolpath Generation Software with Integrated Vision	Optional
	Automated part loading	Optional
Mechanical	Dimensions	1.9 x 2.5 x 2.5 m
	Weight	Approx. 2010 Kg



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