HD2 3X

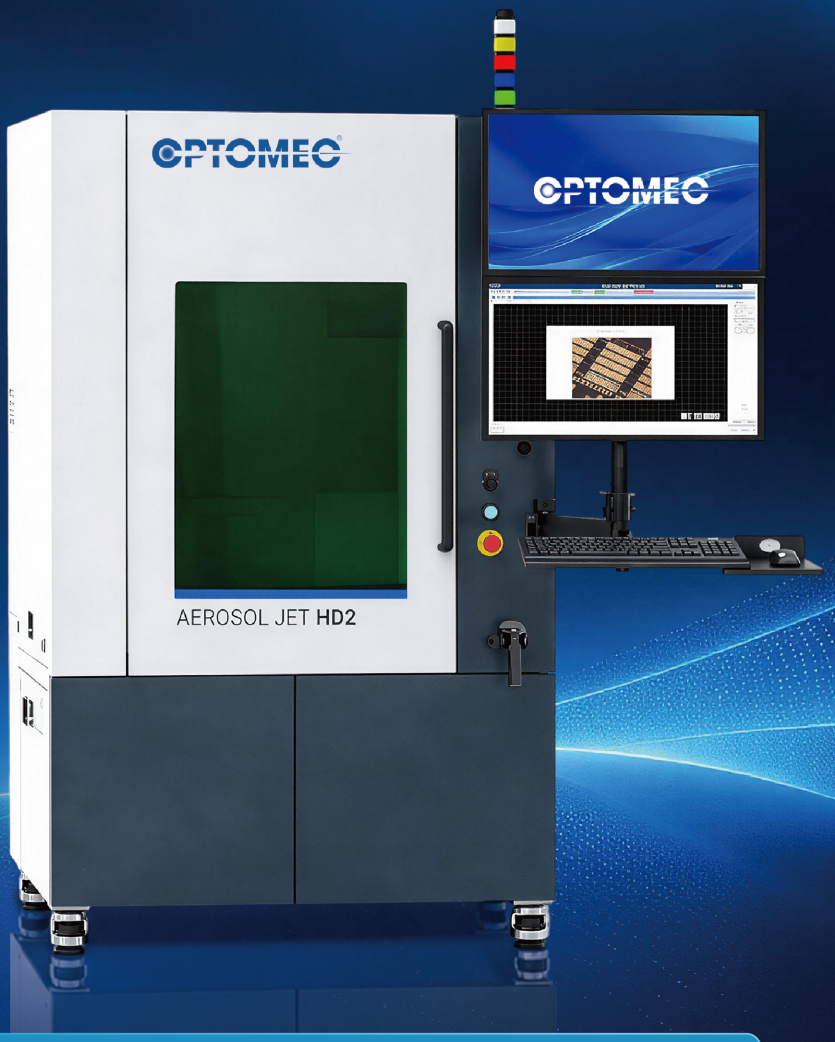
A high–precision additive deposition system with inline and standalone production automation.

Print module supports diverse off–the–shelf materials; 3–axis print volume 300 × 300 × 100 mm, feature sizes 10—200 mm.

High–resolution linear stages & digital vision alignment deliver ±10 mm print accuracy and ±2 mm repeatability.

Integrated 4th indexing axis rotates parts at 3 arc min accuracy and ±15 arcsec repeatability.

KEWB™ sequencer: GUI–based full system control with Powermill™ & VMTools™ CADCAM plugin integration.



HD2 3X BASE SYSTEM	
Ultrasonic atomizer cassette	Capable of handling liquid materials viscosities to 0.7–15 cP
Pneumatic atomizer cassette	Capable of handling liquid material with viscosities of 1 to 500 cP with mix and stirring
Fine feature deposition head	Set of 100, 150, 200 and 300 mm nozzles with printed features ranging from 10 mm to 200 mm
Divert shutter	Used to divert the aerosol stream between the deposition head and the substrate. A mechanical shutter is also provided to meet specific needs
Process control module (PCM)	The PCM manages the various flows required for the pneumatic and ultrasonic deposition processes as well as the subsystem interfaces
KEWA interface module (KIM)	The KIM manages deposition control utilities including temperature, shuttering, and interface between KEWA software and the PCM
Vision Modules	Cognex digital process viewing and alignment allows real–time viewing of the printing process and alignment to part fiducials
Axes	3–axis system with Y table and X,Z overhead. Additional rotary indexing table for aligning to sidewalls of chips and assembles
Software	Powermill and VMTools (AutoCAD plug–in) for toolpath generation and KEWB for system operation
Build volume	300 x 300 x 100 mm

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