



CARMEL 1400 AM SYSTEM for CERAMIC

System:

Tray size	500 x 280 x 200 mm; 19.7 x 11 x 7.9 inch; Removable.
Configuration	24 heads, 512 nozzles each
Material loading	Fully enclosed Build and Support ink cartridges
Layer thickness	10 -15 microns
Building speed	1-1.5 mm height per hour for a full tray
Embedded O/S	Windows 7 or higher, 64-bit
Network connectivity	LAN - TCP/IP
Software package	Autodesk® Netfabb® Ultimate (with file fix, CAD format loading and file manipulations features) Multi system server software package Remote view with mobile app.
User Experience	Touchscreen Remote view with mobile app.
Dimensions	310 x 212 x 85 cm; 122 x 83 x 72 Inch
Weight	3 Tons
Electrical power	EU: 400 VAC; 3 Phases; 3 x 30 A; 50/60 Hz. US:208VAC; 3 Phases; 3 X 50A; 60Hz
Air pressure required	7 Bar
Environment operation	18 - 25°C; 64° - 77°F
Regulations conformity	CE; FCC

Material:

Materials	Zirconia 3YSZ, Soluble Support
Testing criteria	ISO 13356
Shelf life	Up to 1 year under recommended conditions
Safety	MSDS available per material

Part Properties¹:

Accuracy	20 - 50 microns for parts with dimensions of up to 50 mm; 50 -100 microns for larger parts.
Minimum feature size	100 microns
Final part hardness	1250 HV
Final part material density	6.01-6.04 g/cm ³ (>99.9%)
Surface roughness	N9-N10 (<20 microns)
Linear shrinkage	Isotropic 16.9% per dimension

Disclaimer: The data included is for information purposes only and should not be considered specific advice to any customer project. The provision of the product described is subject to changes and XJet terms and conditions.

¹ All measurements are based on internal XJet lab testing made on lab specimens.