XJET

CARMEL 1400 AM SYSTEM

System:

Tray size	mm:500 x 280 x 200, in:19.7 x 11 X 7.9 Removable.
Configuration	24 heads, 512 nozzles each
Material loading	Fully enclosed Build and Support cartridges
Layer thickness	3-8 microns in Metals 10-15 microns in Zirconia
Building speed[2]	1-1.5mm height per hour for Full Tray
Workstation compatibility	Windows 7 or higher, 64-bit
Network connectivity	LAN – TCP/IP
Software support	Autodesk® Netfabb® Ultimate (with file fix, CAD format loading and file manipulations features) Multi machines server software package Remote view with mobile app
Operation	Touchscreen and optional for mobile support
Machine dimensions	310 x 212 x 185 (cm) , 122 x 83 x 72 (Inch)
Machine weight	3 Tons.
Electrical power consumption	220V, 3X32A, 14kW 110V, 3 phase 208V 50A
Air pressure required	6Bar
Environment operation	18° C to 25° C
Regulations conformity	CE, FCC

Material:

Materials	Ceramic (Zirconia ZrO2), Soluble support
Testing criteria	international standard ISO13356
Shelf life	(>1 Year in recommended conditions)
Safety	MSDS available per material

Part Properties[1]:

Accuracy[2]	20-50 microns for dimensions up to 50 mm; 50-100 microns for larger dimensions.
Minimum feature size	100 Microns
Final part Hardness	>12.0 GPa
Final part material Density	6.01-6.04 g/cm3 M (>99.9%)
Surface Roughness	N9-N10 (<20μ)
Linear shrinkage	Isotropic 16.9% per dimension (40% vol.)

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.

[2] Depending on geometry, build parameters and model orientation

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