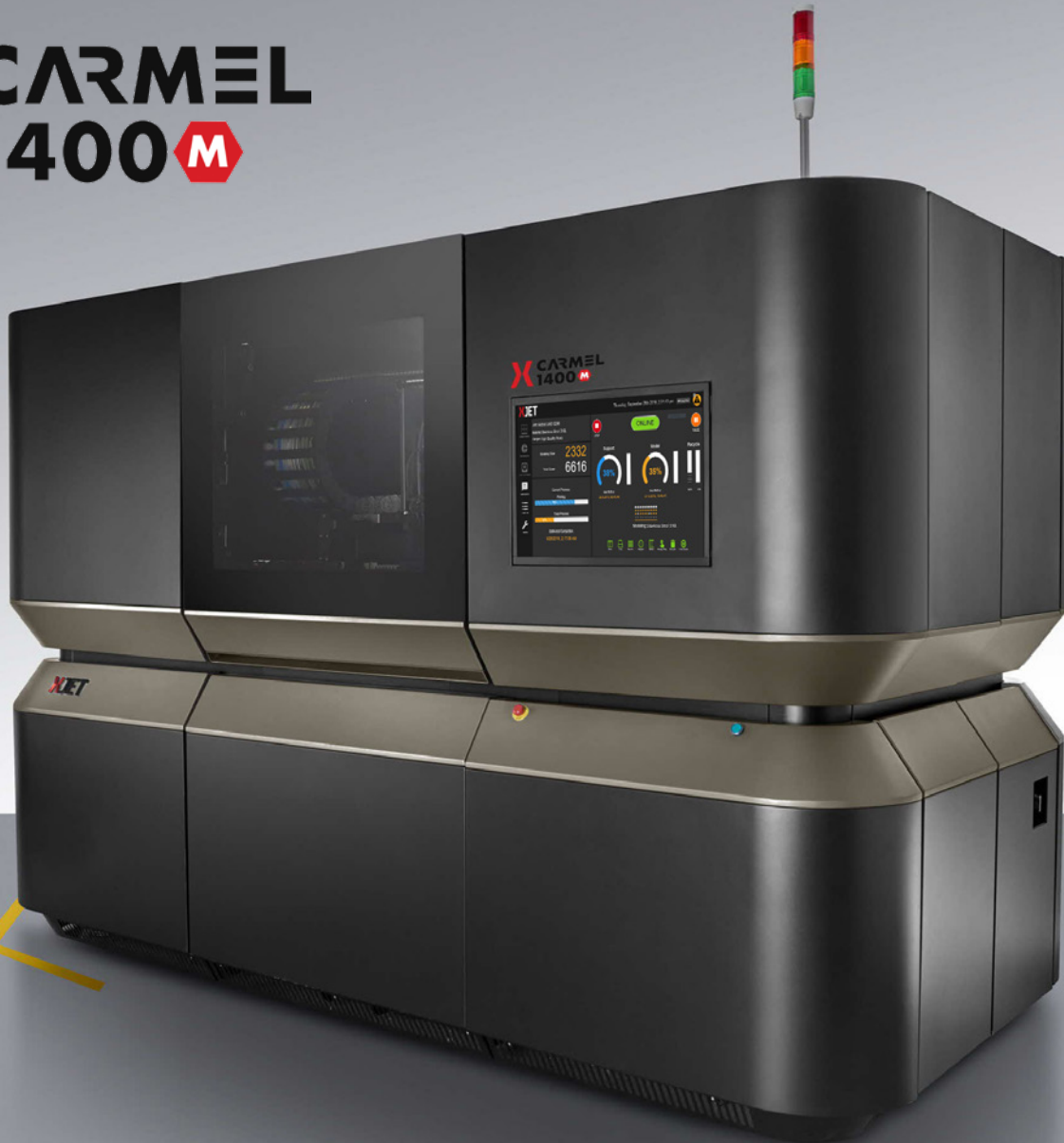


X CARMEL 1400 M



XJET CARMEL 1400M – METAL AM SYSTEM NanoParticle Jetting (NPJ) technology

Unprecedented Productivity & Quality

- Unlimited design flexibility with unprecedented accuracy fine details and surface finish
- High productivity & repeatability enabling solutions from prototyping to full fledge manufacturing
- Addressing wide range of applications such as healthcare, aerospace, automotive, telecom and more

Revolutionary Powderless Technology

- No hazardous materials using sealed cartridges for safe & simple operation
- Automated support planning
- Soluble support material for easy & manual-free support removal
- Best-in-class part properties

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CARTRIDGE LOADING

MATERIAL JETTING

SUPPORT REMOVAL

FINAL SINTERING

No-hassle cartridge loading:

Solid nanoparticles suspended in liquid are delivered within convenient sealed cartridges of build or support materials, which are loaded safely and easily into the system.

State-of-the-art ink jetting:

Printheads with thousands of inkjet nozzles jet millions of ultrafine drops, simultaneously jetting build and support materials onto the build tray in ultrathin layers.

Easy support removal:

Support structures, made from special soluble material, easily dissolve in water based solution in a rapid hands-free process without harming the produced parts.

Simple final sintering:

Produced parts undergo a simple and relatively short overnight sintering process in a common sintering oven.

System Specifications

Build area (w/d/h) on removable build tray	500 x 140 mm / 19.7 x 5.5 in
Layer thickness	7-10 microns
Building speed	Up to 0.7 mm height per hour
Dimensions (w/h/d)	310 x 212 x 185 cm / 122 x 84 x 73 in
Weight	3 tons / 6,614 lb
Electrical power	EU: 400 VAC; 3 phases; 3 x 30 A; 50/60 Hz US: 208 VAC; 3 phases; 3 x 50 A; 60 Hz
Operating temperature	18° - 25°C; 64° - 77°F
Regulations compliance	CE; FCC

Materials

Materials	316L Stainless Steel dispersion (3 kg cartridge) Soluble support for metals (2.2 kg cartridge)
Certifications	ISO 9001, ISO 13485

Part Quality¹

Accuracy ²	± 50 micron on dimensions up to 5 mm 1% of larger dimensions up to ± 100 micron
Minimum feature size	200 microns
Density	7.83 g/cm ³ (>98%)
Surface roughness	N8-N9
Shrinkage (linear and isotropic)	15.5% per dimension

XJet Ltd. is ISO 9001 and ISO 13485 certified for the development and providing proprietary NanoParticle Jetting 3D Printing in the field of ceramics and metal.

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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