Connex500

Bring your models closer to your end products
with innovative Objet inkjet-based Technology

- Closer-than-ever simulation of end products combining multiple materials
  - Multi-material parts: simultaneous jetting of different model materials
  - Mixed tray: different parts made with different materials in a single build
- Wide range of FullCure® and composite materials: photopolymer model and support materials; on-the-fly composite Digital Materials™
- Variety of build process and printing modes
- Boost your creativity with multiple materials and composite materials featuring varied material properties and tones
- Outstanding quality and accuracy
- 16-micron, high-resolution layers ensure smooth surfaces and fine details
- Superb productivity with large-size build tray of 500x400x200 mm
- Ease-of-use in an office environment

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Technical Specifications

Layer Thickness (Z-axis)
Horizontal build layers down to 16-micron

Tray Size (X×Y×Z)
500×400×200 mm (19.7×15.7×7.9 inch)

Net Build Size (X×Y×Z)
490×390×200 mm (19.3×15.4×7.9 inch)

Build Resolution
X-axis: 600 dpi
Y-axis: 600 dpi
Z-axis: 1600 dpi

Printing Modes
Digital Material (DM): 30-micron (0.001 inch)
High Quality (HQ): 16-micron (0.0006 inch)
High Speed (HS): 30-micron (0.001 inch)

Typical Accuracy
20-85um for features below 50mm
Up to 200um for full model size
(for rigid materials only, depending on geometry, build parameters and model orientation)

Supported Model Materials
- FullCure®720 General Purpose, transparent material
- Vero Family opaque materials
- DurusWhite Polypropylene-like material
- Tango Family rubber-like flexible material

Digital Materials
Wide range of composite materials fabricated on the fly

Support Type
- FullCure®705 Support
- Non-toxic gel-like photopolymer support easily removed by WaterJet

Materials Cartridges:
- Four sealed 3.6 kg (7.9 lb) cartridges
- Tango family and DurusWhite also available as 1.44kg (3.17 lb) net weight in 3.6 kg casing
- Two different model materials loaded
- Front loading for quick replacement

Power Requirements
110–240 VAC 50/60 Hz
1.5 KW single phase

Machine Dimensions (W×D×H)
1420×1120×1130 mm
(55.9×44.1×44.5 inch)

Machine Weight
Net 500kg (Net 1102 lb)

Operational Environment
18°C to 22°C (64.5°F to 71.5°F)
Relative Humidity 30 – 70%

Compatibility
Windows XP, Windows Vista

Software
Objet Studio™ for Connex500 features:
- Easy selection of materials including Digital Materials
- Part separation into sub-assemblies
- Automatic real time support structure generation
- Suggested build orientation and speed, auto-place
- Slice on the fly
- Network version

Input Formats
STL, OBJDF and SLC Files

CADMatrix™ Add-in
CADMatrix add-in enables designers and engineers to seamlessly assign Objet model materials to multi-part, multi-material designs within CAD software*, thus allowing for increased control of 3D model validation.

Special Facility Requirements
None

Print Heads
8 Units

Network Communication
LAN – TCP/IP

* CAD software: CADMatrix™ is compatible with the following: Pro/ENGINEER®, SolidWorks, AutoDesk Inventor

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