

Objet Connex 3D Printers - Technical Specifications

Tray size (XxYxZ) (Connex 500)

19.7 x 15.7 x 7.9 inches
(500 x 400 x 200mm)

Tray size (XxYxZ) (Connex 350)

13.8 x 13.8 x 7.9 inches
(350 x 350 x 200mm)

Tray size (XxYxZ) (Connex 260)

10.2 x 10.2 x 7.9 inches
(260 x 260 x 200mm)

Layer thickness (Z-axis)

Horizontal build layers down to 16-micron

Build Resolution

X-axis: 600 dpi: 42 μ
Y-axis: 600 dpi: 42 μ
Z-axis: 1600 dpi: 16 μ

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)

Accuracy

0.1-0.3mm (0.004-0.01 inch) typical
(accuracy varies according to geometry, part orientation and print size)

Modeling Material

- FullCure720 Model transparent
- VeroWhite rigid opaque material
- VeroBlue rigid opaque material
- VeroGray rigid opaque material
- VeroBlack rigid opaque material
- DurusWhite Polypropylene-like
- TangoGray, rubber-like flexible

Modeling Material Continued

- TangoBlack, rubber-like flexible material
- TangoPlus, rubber-like flexible material - High Speed & DM mode
- TangoBlackPlus, rubber-like flexible material - High Speed & DM mode
- Objet ABS-like Digital material
- Objet VeroClear rigid transparent

Digital Materials

Wide range of composite materials fabricated on the fly

Support Material

- FullCure705 Support
- Non-toxic gel-like photopolymer
- Support easily removed by WaterJet

Materials Cartridges

- Four sealed 3.6 kg (7.9 lb.) cartridges
- Two different model materials loaded
- Front loading for quick replacement

Power Requirements

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

Software Objet Studio™ for Connex features:

- Easy selection of materials including Digital Materials
- Part separation into subassemblies
- Suggested build orientation and speed, Auto-place
- Automatic real time support structure generation
- Slicing on the fly
- Network Version

Input Format

STL, SLC and objDF File

Operational Environment

Temperature 18°C to 22°C

(64.5°F to 71.5°F)

Relative Humidity 30-70%

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.

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

Special Facility Requirements

– None

Print heads

8 units

Network Communication

LAN - TCP/IP

Compatibility

Windows XP, Windows Vista



Objet Connex 500



Objet 260 Connex