



Eden500V™

The 16 Micron Layer 3D Printing System

Expand your options
with a larger build size, superior quality and accuracy

- Ultra-thin-layer Objet inkjet-based technology
- 16 micron high resolution ensures smooth surfaces and fine details
- Tray size: 500×400×200 mm
- Office environment
- Wide range of materials: FullCure®720, Tango, Vero and Durus
- Single support for all model materials
- 72 hours of unattended continuous printing
- High Speed and High Quality Printing Modes
- Optimax for automation of resin handling
- Upgradable to Stratasys Connex500 3D Printer

Technical Specifications

Layer Thickness (Z-axis)

Horizontal build layers down to 16-micron

Tray Size (XxYxZ)

500x400x200 mm

Net Build Size (XxYxZ)

490x390x200 mm

Build Resolution

X-axis: 600 dpi

Y-axis: 600 dpi

Z-axis: 1600 dpi

Printing Modes

High Quality (HQ): 16-micron

High Speed (HS): 30-micron

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)

Material Supported

- Objet FullCure®720: transparent material
- Objet VeroClear: transparent clear material

- Objet Vero family: rigide opaque material
- Objet DurusWhite: polypropylene-like material
- Objet Tango family: rubber-like material
- Objet RGD525: high temperature resistant material

Support Type

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

Materials Cartridges

Sealed 4x3.6 kg cartridges

Automatic switching between cartridges

Easily and instantly replaced through a front-loading door

Power Requirements

110 – 240 VAC 50/60 Hz

1.5 KW single phase

Machine Dimensions (WxDxH)

1320x990x1200 mm

Machine Weight

Net 410kg

Gross (in crate) 500 kg

Software

Objet Studio™ features:

- Optimax-printing optimization package
- Suggested build orientation and speed, auto-placement
- Automatic real time support structure generation
- Slice on the fly
- PolyLog™ Materials Management
- Network version

Input Format

STL and SLC File

Operational Environment

Temperature 18°C – 25°C

Relative Humidity 30 – 70%

Jetting Heads

SHR (Single Head Replacement), 8 units

Network Communication

LAN – TCP/IP

Compatibility

Windows XP, Windows 2000

*All specification are subject to change without notice



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