



EDEN500V

The 16 Micron Layer 3-Dimensional Printing System

Expand your options

with a larger build size, superior quality and accuracy

- Ultra-thin-layer PolyJet™ technology
- 16 micron high resolution ensures smooth surfaces and fine details
- Tray size: 19.7×15.7×7.9 inch (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



Technical Specifications

Layer Thickness (Z-axis)

Horizontal build layers down to 16-micron

Tray Size (X×Y×Z)

19.7×15.7×7.9 inch (500×400×200 mm)

Net Build Size (X×Y×Z)

19.3×15.4×7.9 inch (490×390×200 mm)

Build Resolution

X-axis: 600 dpi

Y-axis: 600 dpi

Z-axis: 1600 dpi

Printing Modes

High Quality (HQ): 0.0006 inch (16-micron)

High Speed (HS): 0.001 inch (30-micron)

Accuracy

0.004 – 0.01 inch (0.1 – 0.3 mm) typical

(accuracy varies according to geometry, part orientation and print size)

Material Supported

- FullCure®720 Model transparent
- VeroWhite Opaque material
- VeroBlue Opaque material

- VeroBlack Opaque material
- TangoBlack, rubber like flexible material
- TangoGray, rubber like flexible material
- TangoPlus, rubber like flexible material
- Durus opaque material

Support Type

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

Materials Cartridges

Sealed 4x7.9 lb. (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 (W×D×H)

52×39×47 inch (1320×990×1200 mm)

Machine Weight

Net 727.5 lb. (410 kg)

Gross (in crate) 1102 lb. (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 64 – 77 °F (18 – 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



About Objet Geometries

Objet Geometries, the photopolymer jetting pioneer, develops, manufactures and globally markets ultra-thin-layer, high-resolution 3-dimensional printing solutions for rapid prototyping and rapid manufacturing.

The market-proven Eden™ line of systems is based on Objet's patented office-friendly PolyJet™ technology. Objet's FullCure® materials create accurate, clean, smooth and highly detailed 3-dimensional models, enabling even the most complex 3-D models to be printed with exceptionally high quality, accuracy and speed.

Connex500™, Objet's latest innovation, is based on Objet's PolyJet Matrix™ technology, which offers jetting multiple model materials simultaneously. PolyJet Matrix jets Digital Materials™ creating composite

materials which are fabricated on the fly.

Objet's solutions enable manufactures and industrial designers to reduce cost of product development cycles and dramatically shorten time-to-market of new products. Objet systems are in use by world leaders in many industries, such as automotive, electronics, toy, consumer goods, and footwear industries in North America, Europe, Asia, Australia and Japan.

Founded in 1998, Objet serves its growing worldwide customer base through offices in USA, Europe and Hong Kong, and a global network of distribution partners. Objet owns more than 50 patents and patent pending inventions.

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