



**Eden500V™**

The 16 Micron Layer 3D 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: 500x400x200 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 (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

- 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 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



## ABOUT OBJET GEOMETRIES

Objet Geometries Ltd., the innovation leader in 3D printing for rapid prototyping and additive manufacturing, provides 3D printing systems that enable manufacturers and industrial designers to reduce cost of product development and dramatically shorten time-to-market of new products.

Objet's ultra-thin-layer, high-resolution 3D printing systems and materials utilize PolyJet™ polymer jetting technology, to print ultra-thin 16-micron layers. The market-proven Objet Eden™ line of 3D Printing Systems and the Objet24 and Objet30 Desktop 3D printers are based on Objet's patented office-friendly PolyJet™ Technology. The Objet Connex™ family is based on Objet's PolyJet Matrix Technology, which jets multiple model materials simultaneously and creates

composite Digital Materials™ on the fly. All Objet systems use Objet's FullCure® materials to create accurate, clean, smooth, and highly detailed 3D parts.

Objet systems are in use by world leaders in many industries, such as Education, Medical / Medical Devices & Dental, Consumer Electronics, Automotive, toys, 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, Mexico, Europe, Japan, China and Hong Kong, and a global network of distribution partners. Objet owns more than 50 patents and patent pending inventions. For more information, visit us at [www.objet.com](http://www.objet.com).

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