



**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

### Accuracy

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 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 develops, manufactures and globally markets ultra-thin-layer, high-resolution 3-Dimensional printing systems and materials that utilize PolyJet™ Polymer Jetting technology, to print ultra-thin 16-micron layers.

The market-proven Eden™ line of 3D Printing Systems and the Alaris™30 3D desktop printer are based on Objet's patented office-friendly PolyJet™ Technology. Connex500™ 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 3-dimensional models.

Objet's solutions enable manufacturers 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.

Objet Geometries Ltd.  
Headquarters  
2 Holzman st.,  
Science Park,  
P.O Box 2496,  
Rehovot 76124, Israel  
T: +972-8-931-4314  
F: +972-8-931-4315

Objet Geometries Inc.  
North America  
5 Fortune Drive  
Billerica,  
MA 01821  
USA  
T: +1-877-489-9449  
F: +1-866-676-1533

Objet Geometries  
GmbH  
  
Airport Boulevard B 210  
77836 Rheinmünster  
Germany  
T: +49-7229-7772-0  
F: +49-7229-7772-990

Objet Geometries AP  
Asia Pacific  
Unit28, 10/f, HITEC  
1 Trademart Drive  
Kowloon Bay, Kowloon  
Hong Kong  
T: +852-217-40111  
F: +852-217-40555

Objet Geometries AP  
Limited China Rep Office  
Rm1220, CIMIC Tower,  
1090 Century Blvd,  
Pudong Shanghai  
2000120 P. R. China  
T: +86-21-5836-2468  
F: +86-21-5836-2469

info@objet.com www.objet.com

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