



Objet Eden 500V™

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: 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 Objet Connex500 3D Printer

## Technical Specifications

Layer Thickness (Z-axis)  
Horizontal build layers down to 16-micron

Tray Size (X×Y×Z)  
500×400×200 mm

Net Build Size (X×Y×Z)  
490×390×200 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

- 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 (W×D×H)  
1320×990×1200 mm

Machine Weight  
Net 410kg  
Gross (in crate) 500 kg

### Software

- Objet Studio™ features:
- Optimax-printing optimization package
  - Supported 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

Objet Ltd., is a leading provider of high quality, cost effective inkjet-based 3D printing systems and materials. A global company, Objet has offices in North America, Europe, Japan, China, Hong Kong, and India.

Objet's 3D printing systems and 3D printing materials are ideal for any company involved in the manufacture or design of physical products using 3D software or other 3D content. Companies using Objet's solutions can be typically found in sectors such as consumer goods & electronics, aerospace & defense, automotive, education, dental, medical and medical devices, architecture, industrial machinery, footwear, sporting goods, toys and service bureaus.

Founded in 1998, the company has thousands of customers worldwide including a substantial share of the relevant Fortune 100 and Fortune 500. Its award-winning technology (12 awards in 5 years) is based upon over 110 patents and patent pending inventions.

Objet's advanced 3D printing systems and range of over 60 materials enable professionals to build prototypes that accurately simulate the true look, feel and function of an end-product, even complex, assembled goods.

The **Objet Connex™** line of multi-material 3D printers features the world's only technology to simultaneously jet 2 materials. With this, users can print many different materials into a single part and print various mixed parts on the same build tray. Users can also create advanced composite materials, or **Digital Materials™** featuring unique mechanical and thermal properties. Objet's range of over 60 3D printing materials simulate properties ranging from rigid to rubber-like, transparent to opaque and standard to ABS-grade engineering plastics, with a large number of in-between shore grades and shades.

Objet's 3D printers are available in a range of form-factors, from cost-effective desktop 3D printers ideal for entry-level professionals all the way to industrial-scale multi-material machines for front-line designers and top manufacturers. Objet's 3D printers feature the industry's highest-resolution 3D printing quality, based on 16-micron (0.0006 in.) super-thin layering, wide material versatility, office friendliness and ease of operation.

For more information, visit us at [www.objet.com](http://www.objet.com), and for more about 3D printing industry-related news, business issues and trends, read the [Objet Blog](#).

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