

16 micron layer 3-Dimensional Printing System

Objet Geometries



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

- Ultra-thin layer PolyJet™ technology
- High resolution ensures smooth surfaces and fine details
- Tray size: 19.7×15.7×7.9 inch (500×400×200 mm)
- Wide range of materials: FullCure®720, Tango and Vero
- Single support for all model materials
- 72 hours of unattended continuous printing
- High Speed and High Quality Printing Modes
- Office environment

EDEN 500V™



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

Support Type

FullCure®705 Support

Non-toxic gel-like photopolymer support easily removed by WaterJet

Material Cartridges

Sealed 4×7.9 lb. (4×3.6 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:

- 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°F – 77°F (18 °C – 25 °C)

Relative Humidity 30–70%

Special Facility Requirements – None

Jetting heads

SHR (Single Head Replacement), 8 units

Network Communication

LAN – TCP/IP

Compatibility

Windows XP, Windows 2000

* All specifications are subject to change without notice



About Objet Geometries

A pioneer in jetting photopolymers, Objet Geometries Ltd. develops, manufactures and globally markets ultra-thin layer 3-Dimensional Printing Systems and materials that utilize PolyJet™ Polymer Jetting technology.

PolyJet technology and Objet's high-speed product platform offer accurate, clean, smooth and highly detailed 3-Dimensional models suitable for use in an office-type facility. PolyJet technology enables manufacturers and industrial designers to reduce product development cycles and dramatically shorten time-to-market of new products in many industries. Objet's solutions are in use by world leaders in the automotive, electronics, toy, consumer goods, and footwear industries in North America, Europe, Asia, Australia and Japan. Founded in 1998, Objet is privately owned and holds more than 40 granted and pending patents.

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