Eden260V

The 16 Micron Layer 3-Dimensional Printing System

Superior accuracy, high quality and the power of a large system in a small footprint

- Ultra-thin-layer PolyJet™ technology

- 16 micron high resolution ensures smooth surfaces and fine details

- Tray size: 260×260×200 mm

- High Speed and High Quality Printing Modes

- Wide range of materials: FullCure®720, Tango, Vero and Durus

- 72 hours of unattended continuous printing

- Optimax for automation of resin handling

- Small footprint: 870×740×1200 mm

- Office environment

OBJET

Technical Specifications

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

Tray Size (X×Y×Z)
260×260×200 mm

Net Build Size (X×Y×Z)
255×252×200 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

Accuracy
0.1-0.2 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 4×3.6 kg cartridges
Automatic switching between cartridges
Easily and instantly replaced through a frontloading door

Power Requirements
110–240 VAC 50/60 Hz
1.5 KW single phase

Machine Dimensions (W×D×H)
870×735×1200 mm

Machine Weight
Net 280 kg
Gross (in crate) 330 kg

Software
Objet Studio™ features:
• Suggested build orientation and speed, Auto-placement
• Optimax-printing optimization package
• 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%

Special Facility Requirements
None

Jetting Heads
SHR (Single Head Replacement), 8 units

Network Communication
LAN – TCP/IP

Compatibility
Windows XP, Windows 2000

Other Features
• Removable tray for high productivity
• Quiet office operation

*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.