Connex**350**

Enter the world of multi-material 3D printing
with innovative PolyJet Matrix™ Technology

- Closer-than-ever simulation of end products combining multiple materials
  - Multi-material parts: simultaneous jetting of different model materials
  - Mixed tray: different parts made with different materials in a single build
- Wide range of FullCure® and composite materials: photopolymer model and support materials; on-the-fly composite Digital Materials™
- Variety of build process and printing modes
- Boost your creativity with multiple materials and composite materials featuring varied material properties and tones
- Outstanding quality and accuracy
- 16-micron, high-resolution layers ensure smooth surfaces and fine details
- Build tray size of 350x350x200 mm: ideal for a wide range of parts and assemblies
- Ease-of-use in an office environment

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Technical Specifications

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

Tray Size (X×Y×Z)
350×350×200 mm (13.8×13.8×7.9 inch)

Net Build Size (X×Y×Z)
342×342×200 mm (13.4×13.4×7.9 inch)

Build Resolution
X-axis: 600 dpi
Y-axis: 600 dpi
Z-axis: 1600 dpi

Printing Modes
Digital Material (DM): 30-micron (0.001 inch)
High Quality (HQ): 16-micron (0.0006 inch)
High Speed (HS): 30-micron (0.001 inch)

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)

Supported Model Materials
• FullCure®720 General Purpose, transparent
  material
• Vero Family opaque materials
• DurusWhite Polypropylene-like material
• Tango Family rubber-like flexible material

Digital Materials
Wide range of composite materials fabricated
on the fly

Support Type
• FullCure®705 Support
• Non-toxic gel-like photopolymer support
  easily removed by WaterJet

Materials Cartridges:
• Four sealed 3.6 kg (7.9 lb) cartridges
• Tango family and DurusWhite also
  available as 1.44kg (3.17 lb) net weight
  in 3.6 kg casing
• Two different model materials loaded
• Front loading for quick replacement

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

Machine Dimensions (W×D×H)
1420×1120×1130 mm
(55.9×44.1×44.5 inch)

Machine Weight
Net 500kg (Net 1102 lb)

Operational Environment
18°C to 22°C (64.5°F to 71.5°F)
Relative Humidity 30 – 70%

Compatibility
Windows XP, Windows Vista

Software
Objet Studio™ for Connex350 features:
• Easy selection of materials including
  Digital Materials
• Part separation into sub-assemblies
• Automatic real time support structure
  generation
• Suggested build orientation and speed,
  auto-place
• Slice on the fly
• PolyLog™ Materials Management
• Network version

Input Formats
STL, OBJDF and SLC Files

CADMatrix™ Add-in
CADMatrix add-in enables designers and
engineers to seamlessly assign Objet model
materials to multi-part, multi-material designs
within CAD software*, thus allowing for increased
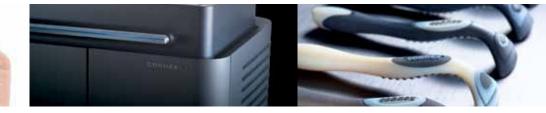control of 3D model validation.

Special Facility Requirements
None

Print Heads
8 Units

Network Communication
LAN – TCP/IP

* CAD software: CADMatrix™ is compatible with the following:
 Pro/ENGINEER®, SolidWorks, AutoDesk Inventor

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.

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