

Objet350 and Objet500 Connex3

Multi-color, multi-material or high quality? Choose everything.

With the ability to 3D print the full range of Digital Materials including color, the Objet350 and Objet500 Connex3™ 3D Printers create parts with the precision, look and feel of real production parts using best-in-class versatility. Print parts with multiple properties, and choose from a wide range of material properties, from rubber to rigid, transparent to opaque, neutral to vibrant, and standard to biocompatible. 3D print custom jigs, assembly fixtures and gauges and tooling with ultra-fine accuracy and smooth surfaces quickly and easily – no assembly required for parts with multiple materials. Connex3 delivers incredible efficiency with the power to serve diverse needs from one system. Objet Studio™ and GrabCAD Print™ software make it simple to build high-quality, accurate 3D models.

System Specifications

Model Materials	Rigid Opaque: VeroPureWhite™, VeroWhitePlus™, VeroBlackPlus™, VeroGray™, VeroBlue™, VeroCyan™, VeroMagenta™, VeroYellow™ Rubber-like: Agilus30™, TangoPlus™, TangoBlackPlus™, TangoBlack™, TangoGray™ Transparent: VeroClear™ and RGD720 Simulated Polypropylene: Rigur™ and Durus™ High Temperature Bio-compatible	
Digital Materials	Digital ABS Plus™ and Digital ABS2 Plus™ in ivory and green Hundreds of vibrant, repeatable colors in opaque and translucent Rubber-like blends in a range of Shore A values and color Simulated polypropylene materials with improved heat resistance	
Material Options	Over 1,000	
Maximum Materials per Part	82	
Support Material	SUP705 (WaterJet removable), SUP706B (soluble)	
Maximum Build Size (XYZ)	Objet350: 342 x 342 x 200 mm (13.4 x 13.4 x 7.9 in.) Objet500: 490 x 390 x 200 mm (19.3 x 15.4 x 7.9 in.)	
System Size	1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.)	Material Cabinet: 330 x 1170 x 640 mm (13 x 46.1 x 26.2 in.)
System Weight	430 kg (948 lbs.)	Material Cabinet: 76 kg (168 lbs.)
Resolution	X-axis: 600 dpi; Y-axis: 600 dpi; Z-axis: 1600 dpi	
Accuracy ¹	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ or ± 0.06% of part length, whichever is greater.	
Minimum Layer Thickness	Horizontal build layers as fine as 16 microns (.0006 in.)	
Build Modes	Digital Material: 30-micron (.001 in.) resolution High Quality: 16-micron (.0006 in.) resolution High Speed: 30-micron (.001 in.) resolution	
Software	Objet Studio intuitive 3D printing software	
Workstation Compatibility	Windows 7/ Windows 8. Compatible with GrabCAD Print for use with job reports, scheduling and reports monitoring.	
Network Connectivity	LAN - TCP/IP	
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30 – 70% (non-condensing)	
Power Requirements	110-240 VAC 50/60Hz; 1.5 kW single phase	
Regulatory Compliance	CE, FCC	

¹ These results are valid for about 95% of printed models, measured when ambient temperature is 23 °C and relative humidity is 50%.

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Driven by powerful PolyJet technology

Proven PolyJet™ 3D Printing is famous for smooth surfaces, fine precision and diverse material properties. It works a bit like inkjet document printing, but instead of jetting drops of ink onto paper, the print head jets microscopic layers of liquid photopolymer onto a build tray and instantly cures them with UV light. The fine layers build up to create a prototype or production part.

Along with the selected model material, the 3D printer features two support material options: SUP705, removed with a WaterJet; and SUP706B, which is easily removed and soluble for automated post-processing and increased geometric freedom to print complex and delicate features and small cavities.

With its astonishingly realistic aesthetics and ability to deliver special properties such as transparency, flexibility and even bio-compatibility, PolyJet 3D Printing offers a competitive edge in consumer products prototyping, precision tooling and specialized production parts.

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