



Objet500 Connex1

Gain triple-jetting efficiency for 3D production.

Backed by triple-jetting technology, the Objet500 Connex1™ 3D Printer lets you combine as many as three base resins in a single build without assembly or post-processing. 3D print multi-material jigs, assembly fixtures and tooling, and simulate overmolding with ultra-fine layer resolution and outstanding accuracy. Achieve final product realism with your choice of 17 photopolymers that simulate rubber, polypropylene and standard manufacturing plastics. High material capacity, hot-swap capability and a large build envelope enable you to power through tool and prototype production with great efficiency.

Build complex prototypes as large as 490 x 390 x 200 mm (19.3 x 15.4 x 7.9 in.) – ideal for printing large parts or multiple small-to medium-sized parts at once.



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THE 3D PRINTING SOLUTIONS COMPANY



Objet500 Connex1

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, which is easily removed with a WaterJet; and SUP706, which is 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.

System Specifications

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| Model Materials | Rigid Opaque: VeroWhitePlus™, VeroBlackPlus™, VeroGray™, VeroBlue™, Vero PureWhite™, Rubber-like: Agilus30™ in black and clear, TangoPlus™, TangoBlackPlus™, TangoBlack™, TangoGray™ Transparent: VeroClear™ and RGD720 Simulated Polypropylene: Rigur™ and Durus™ High Temperature Bio-compatible |
| Material Options | 17 |
| Maximum Materials per Part | 3 |
| Support Material | SUP705 (WaterJet removable) SUP706 (soluble) |
| Maximum Build Size (XYZ) | 490 x 390 x 200 mm (19.3 x 15.4 x 7.9 in) |
| System Size and Weight | 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.) <i>Material Cabinet:</i> 330 x 1170 x 640 mm (13 x 46.1 x 26.2 in.); 76 kg (168 lbs.) |
| Resolution | X-axis: 600 dpi; Y-axis: 600 dpi; Z-axis: 1600 dpi |
| Accuracy | 20-85 microns for features below 50 mm; up to 200 microns for full model size |
| Minimum Layer Thickness | Horizontal build layers as fine as 16 microns (.0006 in.) |
| Build Modes | 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 |
| 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 |

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