

# Objet30 Prime

## Put maximum flexibility on your desktop.

The world's most versatile desktop 3D printer, the Objet30 Prime™ packs specialized materials and a range of print modes into a quiet, easy-to-use system. These capabilities give you the power to 3D print the part you need, when you need it — and a different part tomorrow.

**The most desktop material options:** Small design and engineering teams can meet diverse material needs such as transparency, flexibility and biocompatibility in-house. The Objet30 Prime offers: rigid materials in multiple opaque shades as well as clear, for beautiful detail visualization and prototypes that include see-through components; Rubber-like materials for soft-touch features and flexible components; and specialized materials such as High Temperature, Simulated Polypropylene and even Bio-compatible for medical device prototyping and production parts such as surgical guides.

**Three print modes:** Make the most of your 3D printing resources with a print mode for every phase of development. From draft models that conserve time and material when you need to think fast in 3D, to beautiful, detailed client models and production parts, the Objet30 Prime delivers right from your desktop.





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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 also jets a gel-like support material designed to uphold overhangs. When printing is done, the nontoxic support material is easily removed with a WaterJet. Models can be handled and used immediately, without additional post-curing.

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

## 3D PRINTER SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| <b>Model Materials</b>           | Rigid Opaque (VeroWhitePlus™, VeroGray™, VeroBlue™, VeroBlackPlus™)<br>Transparent (RGD720 and VeroClear™)<br>Simulated Polypropylene (Rigur™ and Durus™)<br>High Temperature<br>Rubber-like (TangoGray™ and TangoBlack™)<br>Bio-compatible |
| <b>Support Material</b>          | SUP705 gel-like photopolymer support  |
| <b>Maximum Build Size (XYZ)</b>  | 294 x 192 x 148.6 mm (11.57 x 7.55 x 5.85 in.)  |
| <b>System Size and Weight</b>    | 82.5 x 62 x 59 cm (32.28 x 24.4 x 23.22 in.); 106 kg (234 lbs)  |
| <b>Resolution</b>                | <b>X-axis:</b> 600 dpi; <b>Y-axis:</b> 600 dpi; <b>Z-axis:</b> 1600 dpi   |
| <b>Accuracy</b>                  | 0.1 mm (0.0039 in.) varies depending on part geometry, size, orientation, material and post-processing method   |
| <b>Minimum Layer Thickness</b>   | 28 microns (0.0011 in.) for Tango materials; 16 microns (0.0006 in.) for all other materials  |
| <b>Build Modes</b>               | Draft (36 micron); High Speed (28 micron); High Quality (16 micron)   |
| <b>Software</b>                  | Objet Studio™ intuitive 3D printing software  |
| <b>Workstation Compatibility</b> | Windows XP/Windows 7/Windows 8  |
| <b>Network Connectivity</b>      | Ethernet TCP/IP 10/100 base T   |
| <b>Operating Conditions</b>      | Temperature 18-25°C (64-77°F); relative humidity 30-70%   |
| <b>Power Requirements</b>        | Single phase: 100-200V; 50-60Hz; 7A or 200-240V; 50-60Hz 3.5A   |
| <b>Regulatory Compliance</b>     | CE/FCC/RoHS   |

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