



Objet1000 Plus

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TECHNOLOGIES

Create large or small production tools and full-scale prototypes.

Maximize your productivity and quickly achieve ROI with the Objet1000 Plus™ 3D Printer. Its multi-material capabilities, substantial throughput and ultra-large build tray get your jobs done faster, smarter and with more precision. Based on PolyJet™ technology, this versatile system enables engineers, manufacturers, designers and universities to 3D print any design, no matter how complex or detailed.

Part size is also no object: The Objet1000 Plus is equally adept at printing large or small prototypes with no compromise on precision. Print large parts over 1 meter in length in one build, eliminating the need to split your largest files in CAD and later bond the parts. Print many parts in one job and enjoy a competitively low cost per part.

Reliable and easy to use, the Objet1000 Plus builds parts that are ready for use with little or no post-processing. Support material is quick to remove with a WaterJet, and for most applications the smooth, multi-material parts require no polishing or painting.

The Objet1000 Plus serves challenging manufacturing needs in industries like automotive, aerospace, household appliances and industrial machinery, with precise check gauges, large fixtures and even 3D printed injection molds.

Multi-material versatility.

Along with its size, the Objet1000 Plus offers impressive multi-material 3D printing capabilities with the power of Digital Materials. Build parts with diverse material properties in one job, and even combine as many as 14 materials in one part.



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Objet1000 Plus

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.

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.

Product Specifications

Model Materials	<ul style="list-style-type: none">• Transparent rigid (VeroClear™)• Rubber-like (TangoPlus™ and TangoBlackPlus™)• Rigid Opaque (Vero family)• Simulated Polypropylene (Rigur™)
Digital Materials	<ul style="list-style-type: none">• Transparent shades and patterns• Rigid Opaque shades• Rubber-like blends in a range of Shore A values• Simulated Polypropylene blends in rigid and flexible options• Digital ABS Plus™ simulates ABS plastics by combining high-temperature resistance with toughness• Digital ABS2 Plus™ matches those properties and provides enhanced dimensional stability in walls thinner than 1.2 mm (.047 in.)• Rigur-based Digital Materials in a range of Shore A values and shades in rigid and flexible options
Support Materials	SUP705 (WaterJet removable)
Maximum Build Size	<ul style="list-style-type: none">• 1000 x 800 x 500 mm (39.3 x 31.4 x 19.6 in.)• Max model weight on tray: 135 kg
System Size and Weight	1960 x 2868 x 2102 mm (77.5 x 113 x 83 in.); 2200 kg (4850 lbs.)
Resolution	X-axis: 300 dpi; Y-axis: 300 dpi; Z-axis: 1600 dpi
Accuracy	Up to 600 microns for full model size (for rigid materials only, depending on geometry, build parameters and model orientation)
Layer Thickness	Horizontal build layers as fine as 16 microns (0.0006 in.)
Software	GrabCAD Print™
Workstation Compatibility	Windows 7 64 bit/Windows 8
Network Connectivity	LAN – TCP/IP
Power Requirements	230 VAC 50/60Hz; 8A single phase
Regulatory Compliance	CE, FCC

ALTEM TECHNOLOGIES (P) LTD

Ph: +91 8041506070 | www.altem.com | www.printmyCAD.COM | enquiry@altem.com
Sales Office: Bangalore | Chennai | Hyderabad | Pune | Ahmedabad | Delhi | Singapore