ProJet[®] 5500X



Multi-Material 3D Printer

Large, high-quality multi-material parts in a single build.

3D Systems' ProJet® 5500X uses proven MultiJet Printing (MJP) technology to build the highest quality, most accurate and toughest multi-material parts available. Print finely detailed parts with varying degrees of flexibility, material transparency and color (black, white, or select shades of grey), all from one 3D printer. The ProJet 5500X features the fastest print speeds, a large build volume, and the most convenient print-to-part process, so it's easier to create parts with engineered plastic or rubber properties.

Using the new VisiJet[®] Composite materials, the ProJet 5500X offers hundreds of material variations in a single print to precisely match your specifications. With so many options, the ProJet 5500X is perfect for a variety of applications, including overmolded parts, multi-material assemblies, rubber-like components, long-lasting living hinges and high-temperature testing.





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MANUFACTURING THE FUTURE

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| Net Build Volume (xyz) HD Mode (High Definition) UHD Mode (Ultra High Definition) | 21 x 15 x 11.8 in (533 x 381 x 300 mm) 21 x 15 x 11.8 in (533 x 381 x 300 mm) |
|---|---|
| Resolution (xyz) HD Mode UHD Mode | 375 x 375 x 790 DPI; 32μ (0.0012 in) layers 750 x 750 x 890 DPI; 29μ (0.0011 in) layers |
| Build Materials VisiJet [®] CR-CL VisiJet [®] CR-WT VisiJet [®] CF-BK | Rigid Plastic Material - Clear Rigid Plastic Material - White Rubber-like Material - Black |
| Support Material | VisiJet [®] S500 Support Material |
| Material Packaging | Build materials in clean 2.0 kg cartridges and support material in clean 1.75 kg cartridges (printer holds 4 build and 4 support cartridges with auto-switching) |
| Electrical | 100 VAC, 50/60 Hz, single-phase, 15 Amps 115 VAC, 50/60 Hz, single-phase, 15 Amps 240 VAC, 50/60 Hz, single-phase, 8 Amps |
| Dimensions (WxDxH) 3D Printer Crated 3D Printer Uncrated | 80 x 48 x 78 in (2032 x 1219 x 1981 mm) 67 x 35.4 x 65 in (1700 x 900 x 1650 mm) |
| Weight 3D Printer Crated 3D Printer Uncrated | 2550 lbs (1157 kg) 2060 lbs (934 kg) |
| ProJet Accelerator Software | Easy build job set-up, submission and job queue management; Automatic part placement and build optimization tools; Part stacking and nesting capability; Extensive part editing tools; Automatic support generation; Job statistics reporting tools |
| Network Compatibility | Network ready with 10/100 Ethernet interface |
| Client Hardware Recommendation | 1.7 GHz or better with 4GB RAM OpenGL 1.1 Compatible 1280x1024 resolution or better |
| Client Operating System | Windows® 7, Windows® 8 or Windows® 8.1 |
| Input Data File Formats Supported | STL, CTL |
| Operating Temperature Range | 18 - 28 °C (64-82 °F) |
| Noise | < 65 dBa estimated (at medium fan setting) |
| Certification | CE |
| certification | |

| VisiJet® Build Materials | Condition | VisiJet® CR-CL | VisiJet® CR-WT | VisiJet® CF-BK |
|--------------------------|-------------|------------------------|------------------------|------------------------|
| Description | | Clear | White | Black |
| | | Polycarbonate-like | ABS-like | Rubber-like |
| Density @ 80 °C (liquid) | ASTM D 4164 | 1.04 g/cm ³ | 1.04 g/cm ³ | 1.04 g/cm ³ |
| Tensile Strength | ASTM D 638 | 58 MPa | 56 MPa | 2.2 MPa |
| Tensile Modulus | ASTM D 638 | 2442 MPa | 2414 MPa | 0.7 MPa |
| Elongation at Break | ASTM D 638 | 13 % | 8.1 % | 293% |
| Flexural Strength | ASTM D 790 | 65 MPa | 66 MPa | n/a |
| Shore D | Scale D | 83 | 83 | n/a |
| | | | | |

Multi-material composite printing in one part, at one time

- Have more material options Print the precise variety of engineered plastic or rubber you need, no assembly required.
- Make quality, exact parts Produce the most detailed, most accurate multi-material parts with superior strength, stability and temperature performance.
- Fit your part size requirements High throughput to quickly print a large variety of small or big precision parts.
- Increase productivity The ProJet 5500X features fast build speeds, ease of use, and hands-free post processing, all at lower cost of ownership.
- Maximize spending By using less material than similar printers, and a 5-year guarantee on the print head, the ProJet 5500X offers a lower TCO.
- Vary tone and clearness Print stunning clear parts as well as parts in white, black and select shades of grey.

Features:

- Print in multiple materials in a single build
- Produces strong, finely detailed, precise parts
- Easy post processing
- Larger net build volume for bigger parts or more parts per build
- Build speeds up to two times faster than other printers in class

MultiJet Printing (MJP)

MultiJet 3D Printers (MJP) print thin layers of UV-curable liquid plastic onto a flat platform, using wax to create supports that brace the part during production. UV lamps cure each layer, and the build platform lowers for the next layer. This process continues layer by layer until the part is complete.



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