

# ProJet® 3500 SD & HD

Professional 3D Printers



3DSYSTEMS®

## Easily create high-definition, precise plastic functional prototypes and end-use parts

The ProJet® 3500 series of plastic 3D printers are ideal for creating durable, high-definition functional prototypes, rapid tooling such as injection molds and casting patterns, and end-use parts right in your office. This versatile range of workhorse printers is easy to use, with fast print times and easy post-processing. Parts made on ProJet 3500s are beautifully precise, with sharp edges and true-to-CAD fidelity. Efficient material use, low-maintenance operation and a five-year print head warranty means you can print with confidence and keep costs down.

Using 3D Systems' MultiJet Printing (MJP) technology and VisiJet® M3 performance engineered materials, ProJet 3500s print in hard ABS-like plastics in a variety of colors, tensile strengths and other properties to match your application—including clear and biocompatible parts. You can even print sacrificial patterns in precision-castable plastics



[www.3dsystems.com](http://www.3dsystems.com)

**MANUFACTURING THE FUTURE**

# Productive, high-capacity ProJet® 3500 professional printers



The widest applications range: concept models, verification models, pre-production, digital manufacturing

## Easy connectivity and high productivity with high resolution and accuracy

### ProJet 3510 SD

The affordable ProJet 3510 SD prints high-quality, durable plastic parts for engineering and mechanical design applications, including functional testing, form and fit verification, rapid prototyping, design communication, rapid tooling and more. This office-friendly 3D printer delivers exceptional parts on demand.

AFFORDABILITY • QUALITY • EASE-OF-USE

### ProJet 3510 HDPlus

The ProJet 3510 HDPlus offers the flexibility to choose between three resolution modes to print concept models, verification prototypes and patterns for pre-production and digital manufacturing. Just connect to the printer to create extremely fine-featured plastic parts with greater output.

RESOLUTION *Plus* • PARTS SIZE *Plus* • FLEXIBILITY *Plus*

### ProJet 3510 HD

The ProJet 3510 HD prints precision, durable plastic parts ideal for functional testing, design communication, rapid manufacturing, rapid tooling and more. With a choice in materials and selectable print resolutions, this office-friendly, easy-to-use 3D printer is packed with features that help you maximize your return on investment (ROI).

HIGH DEFINITION • PRECISION • PRODUCTIVITY

### ProJet 3500 HDMax

The high-capacity ProJet 3500 HDMax offers greater productivity, especially with the high-speed printing mode, and larger high-definition prints for the production of functional plastic parts. Users also benefit from increased throughput, part size, feature detail and quality only possible with ProJet printers.

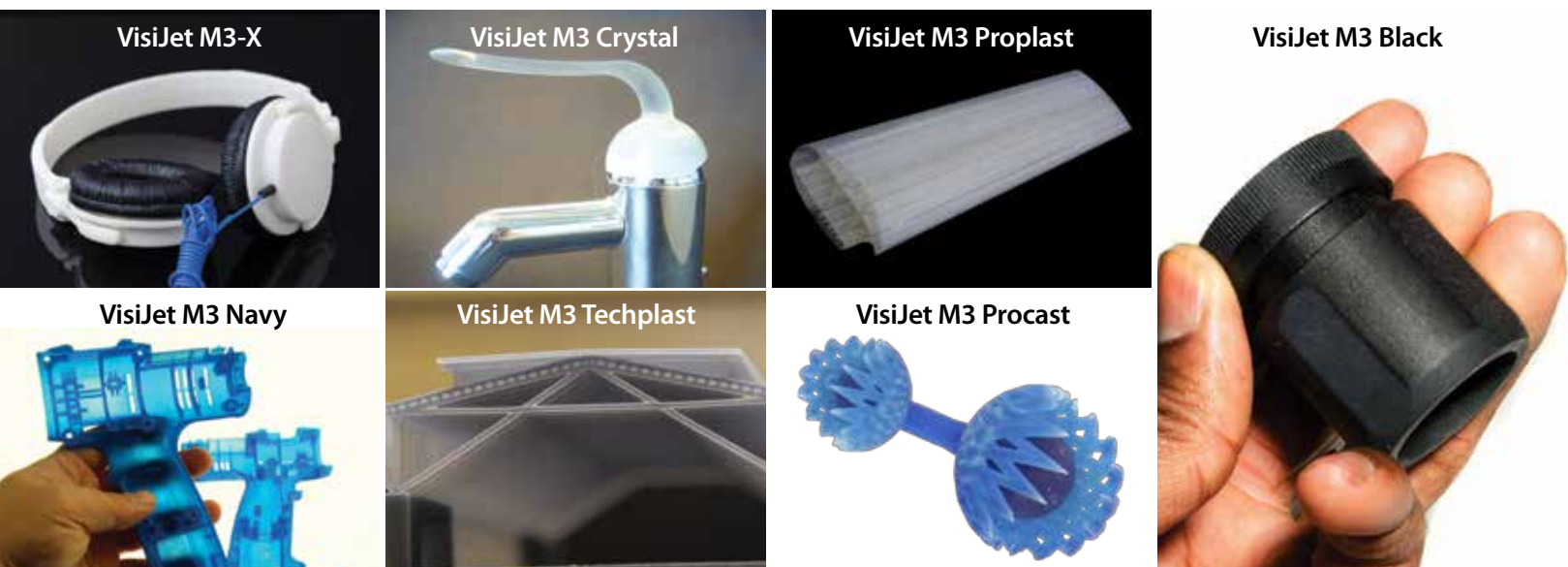
*Max* THROUGHPUT • *Max* DEFINITION • *Max* VOLUME

## VisiJet® M3 Materials for ProJet SD & HD Printers

The VisiJet line of plastic materials offers numerous capabilities to meet a variety of commercial applications. 3D Systems' ProJet 3500 3D printers use VisiJet M3 materials to build accurate, high-definition models and prototypes for proof of concept, functional testing, master patterns for moldmaking, and direct investment casting. Vertical markets for the ProJet 3500 line include transportation, energy, consumer products, recreation, healthcare and education. Toughness, high temperature resistance, durability, stability, watertightness, biocompatibility and castability are a few of the key attributes you will find within the VisiJet M3 materials line. Parts can be drilled, glued, painted, plated, etc. Support material offers easy, non-hazardous post-processing and preserves delicate features.

| Properties                            | Condition  | VisiJet M3-X           | VisiJet M3 Black                    | VisiJet M3 Crystal         | VisiJet M3 Proplast    | VisiJet M3 Navy        | VisiJet M3 Techplast   | VisiJet M3 Procast     | VisiJet® S300  |  |
|---------------------------------------|------------|------------------------|-------------------------------------|----------------------------|------------------------|------------------------|------------------------|------------------------|--|--|
| Composition                           |            | UV Curable Plastic     |                                     |                            |                        |                        |                        |                        | Wax Support Material                                     |  |
| Color                                 |            | White                  | Black                               | Natural                    | Natural                | Blue                   | Gray                   | Dark Blue              | White  |  |
| Bottle Quantity                       |            | 2 kg                   | 2 kg                                | 2 kg                       | 2 kg                   | 2 kg                   | 2 kg                   | 2 kg                   | 2 kg   |  |
| Density @ 80 °C (liquid)              | ASTM D4164 | 1.04 g/cm <sup>3</sup> | 1.02 g/cm <sup>3</sup>              | 1.02 g/cm <sup>3</sup>     | 1.02 g/cm <sup>3</sup> | 1.02 g/cm <sup>3</sup> | 1.02 g/cm <sup>3</sup> | 1.02 g/cm <sup>3</sup> | N/A  |  |
| Tensile Strength                      | ASTM D638  | 49 MPa                 | 35.2 MPa                            | 42.4 MPa                   | 26.2 MPa               | 20.5 MPa               | 22.1 MPa               | 32 MPa                 | N/A  |  |
| Tensile Modulus                       | ASTM D638  | 2168 MPa               | 1594 MPa                            | 1463 MPa                   | 1108 MPa               | 735 MPa                | 866 MPa                | 1724 MPa               | N/A  |  |
| Elongation at Break                   | ASTM D638  | 8.3 %                  | 19.7 %                              | 6.83 %                     | 8.97 %                 | 8 %                    | 6.1 %                  | 12.3 %                 | N/A  |  |
| Flexural Strength                     | ASTM D790  | 65 MPa                 | 44.5 MPa                            | 49 MPa                     | 26.6 MPa               | 28.1 MPa               | 28.1 MPa               | 45 MPa                 | N/A  |  |
| Heat Distortion Temperature @ 0.45MPa | ASTM D648  | 88 °C                  | 57 °C                               | 56 °C                      | 46 °C                  | 46 °C                  | 46 °C                  | N/A                    | N/A  |  |
| Ash Content                           |            | N/A                    | N/A                                 | N/A                        | 0.01 %                 | 0.01 %                 | 0.01 %                 | 0.01 %                 | N/A  |  |
| Melting Point                         |            | N/A                    | N/A                                 | N/A                        | N/A                    | N/A                    | N/A                    | N/A                    | 60 °C  |  |
| Softening Point                       |            | N/A                    | N/A                                 | N/A                        | N/A                    | N/A                    | N/A                    | N/A                    | 40 °C  |  |
| USP Class VI Certified*               |            | No                     | No                                  | Yes                        | No                     | No                     | No                     | No                     | N/A  |  |
| ProJet Compatibility                  |            | SD, HD                 | SD, HD                              | SD, HD                     | SD, HD                 | SD, HD                 | SD, HD                 | HD                     | SD, HD   |  |
| Description                           |            | ABS-like Plastic       | High strength & flexibility plastic | Tough Plastic, Translucent | Plastic, Natural       | Plastic, Blue          | Plastic, Gray          | Castable Plastic       | Non-toxic wax material for hands-free melt-away supports |  |

DISCLAIMER: It is the responsibility of each customer to determine that its use of any VisiJet® material is safe, lawful and technically suitable to the customer's intended applications. The values presented here are for reference only and may vary. Customers should conduct their own testing to ensure suitability for their intended application.



# ProJet® 3500 SD & HD

## Professional 3D Printers



3DSYSTEMS®

Extend Innovation. Extend Production. Extend Choices.



**ProJet 3510 SD**

**ProJet 3510 HD**

**ProJet 3510 HDPlus**

**ProJet 3500 HDMax**

| Printing Modes                           | HD - High Definition<br>-<br>-<br>-   | HD - High Definition<br>-<br>UHD - Ultra High Definition<br>-  | HD - High Definition<br>-<br>UHD - Ultra High Definition<br>XHD - Xtreme High Definition   | HD - High Definition<br>HS - High Speed<br>UHD - Ultra High Definition<br>XHD - Xtreme High Definition   |
|--|---|--|--|--|
| <b>Net Build Volume (xyz)</b>            |   |  |  |  |
| HD Mode                                  | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)   | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)  | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)  | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)  |
| HS Mode                                  | -   | -  | -  | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)  |
| UHD Mode                                 | -   | 5 x 7 x 6" (127 x 178 x 152 mm)  | 8 x 7 x 6" (203 x 178 x 152 mm)  | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)  |
| XHD Mode                                 | -   | -  | 8 x 7 x 6" (203 x 178 x 152 mm)  | 11.75 x 7.3 x 8" (298 x 185 x 203 mm)  |
| <b>Resolution</b>                        |   |  |  |  |
| HD Mode                                  | 375 x 375 x 790 DPI (xyz); 32µ layers   | 375 x 375 x 790 DPI (xyz); 32µ layers  | 375 x 375 x 790 DPI (xyz); 32µ layers  | 375 x 375 x 790 DPI (xyz); 32µ layers  |
| HS Mode                                  | -   | -  | -  | 375 x 375 x 790 DPI (xyz); 32µ layers  |
| UHD Mode                                 | -   | 750 x 750 x 890 DPI (xyz); 29µ layers  | 750 x 750 x 890 DPI (xyz); 29µ layers  | 750 x 750 x 890 DPI (xyz); 29µ layers  |
| XHD Mode                                 | -   | -  | 750 x 750 x 1600 DPI (xyz); 16µ layers   | 750 x 750 x 1600 DPI (xyz); 16µ layers   |
| <b>Accuracy (typical)</b>                | 0.001-0.002 inch per inch (0.025-0.05 mm per 25.4 mm) of part dimension.<br>Accuracy may vary depending on build parameters, part geometry and size, part orientation, and post-processing.   |  |  |  |
| <b>E-mail Notice Capability</b>          | Yes   | Yes  | Yes  | Yes  |
| <b>Tablet/Smartphone connectivity</b>    | Yes   | Yes  | Yes  | Yes  |
| <b>5-Year Printhead Warranty</b>         | Optional  | Standard   | Standard   | Standard   |
| <b>Build Materials</b>                   | VisiJet M3-X<br>VisiJet M3 Black<br>VisiJet M3 Crystal<br>VisiJet M3 Proplast<br>VisiJet M3 Navy<br>VisiJet M3 Techplast<br>-   | VisiJet M3-X<br>VisiJet M3 Black<br>VisiJet M3 Crystal<br>VisiJet M3 Proplast<br>VisiJet M3 Navy<br>VisiJet M3 Techplast<br>VisiJet M3 Procast | VisiJet M3-X<br>VisiJet M3 Black<br>VisiJet M3 Crystal<br>VisiJet M3 Proplast<br>VisiJet M3 Navy<br>VisiJet M3 Techplast<br>VisiJet M3 Procast | VisiJet M3-X<br>VisiJet M3 Black<br>VisiJet M3 Crystal<br>VisiJet M3 Proplast<br>VisiJet M3 Navy<br>VisiJet M3 Techplast<br>VisiJet M3 Procast |
| <b>Support Material</b>                  | VisiJet S300  | VisiJet S300   | VisiJet S300   | VisiJet S300   |
| <b>Material Packaging</b>                | Build and support materials In clean 4.41 lbs (2 kg) bottles (machine holds up to 2 with auto-switching)  |  |  |  |
| <b>Electrical</b>                        | 100-127 VAC, 50/60 Hz, single-phase, 15A; 200-240* VAC, 50 Hz, single-phase, 10A  |  |  |  |
| <b>Dimensions (WxDxH)</b>                |   |  |  |  |
| 3D Printer Crated                        | 32.5 x 56.25 x 68.5 in<br>(826 x 1429 x 1740 mm)  | 32.5 x 56.25 x 68.5 in<br>(826 x 1429 x 1740 mm)   | 32.5 x 56.25 x 68.5 in<br>(826 x 1429 x 1740 mm)   | 32.5 x 56.25 x 68.5 in<br>(826 x 1429 x 1740 mm)   |
| 3D Printer Uncrated                      | 29.5 x 47 x 59.5 in<br>(749 x 1194 x 1511 mm)   | 29.5 x 47 x 59.5 in<br>(749 x 1194 x 1511 mm)  | 29.5 x 47 x 59.5 in<br>(749 x 1194 x 1511 mm)  | 29.5 x 47 x 59.5 in<br>(749 x 1194 x 1511 mm)  |
| <b>Weight</b>                            |   |  |  |  |
| 3D Printer Crated                        | 955 lbs, 434 kg   | 955 lbs, 434 kg  | 955 lbs, 434 kg  | 955 lbs, 434 kg  |
| 3D Printer Uncrated                      | 711 lbs, 323 kg   | 711 lbs, 323 kg  | 711 lbs, 323 kg  | 711 lbs, 323 kg  |
| <b>ProJet® Accelerator Software</b>      | Easy build job set-up, submission and job queue management ; Automatic part placement and build optimization tools ;<br>Part stacking and nesting capability ; Extensive part editing tools ; Automatic support generation ; Job statistics reporting tools |  |  |  |
| <b>Print3D App</b>                       | Remote monitoring and control from tablet, computers and smartphones  |  |  |  |
| <b>Network Compatibility</b>             | Network ready with 10/100 Ethernet interface  |  |  |  |
| <b>Client Hardware Recommendation</b>    | 1.8 GHz with 1GB RAM (OpenGL support 64 mb video RAM) or higher   |  |  |  |
| <b>Client Operating System</b>           | Windows XP Professional, Windows Vista, Windows 7   |  |  |  |
| <b>Input Data File Formats Supported</b> | STL and SLC   | STL and SLC  | STL and SLC  | STL and SLC  |
| <b>Operating Temperature Range</b>       | 64-82 °F (18-28 °C)   | 64-82 °F (18-28 °C)  | 64-82 °F (18-28 °C)  | 64-82 °F (18-28 °C)  |
| <b>Noise</b>                             | < 65 dBa estimated (at medium fan setting)  |  |  |  |
| <b>Certifications</b>                    | CE  | CE   | CE   | CE   |



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