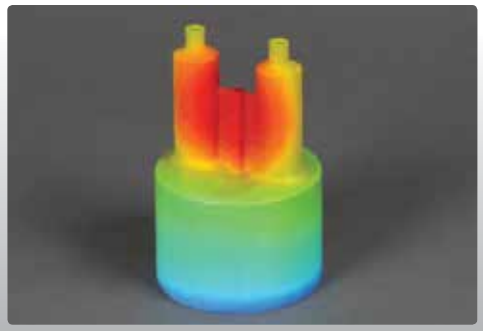
ProJet® 4500

Professional 3D Printer

Combine the power of vibrant full color with durable plastic materials

The ProJet® 4500 gives you the power to make ready-to-use, flexible, strong parts, colored pixel by pixel, with superior surface quality. This office-friendly 3D printer is quick and efficient, and features intuitive operation controls, so you can ensure high productivity and cut operating costs.

Combine outer beauty with inner toughness and have durable, full-color plastic parts right out of the printer from the ProJet 4500. Using ColorJet printing technology and the VisiJet® C4 Spectrum™ plastic material, the ProJet 4500 allows you to quickly create true-to-life prototypes of your end product, accurately display vital features, and produce high-resolution, customized end-use products.



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Resolution	600 x 600 DPI
Color	Continuous CMY
Minimum Feature Size	0.004 in (0.1 mm)
Layer Thickness	0.004 in (0.1 mm)
Vertical Build Speed	0.3 in/hour (8 mm/hour)
Prototypes per Build	18 models, 75 mm in diameter
Net Build Volume (xyz)	8 x 10 x 8 in (640 in^3) 203.2 x 254 x 203.2 mm (10,487 cm^3)*
Build Material	VisiJet C4 Spectrum
Automated Setup and Self Monitoring	•
Core Recycling	•
Integrated Part Cleaning	•
Integrated Materials	•
Intuitive Control Panel	•
E-mail Notice Capacity	•
Tablet/Smartphone Connectivity	•
Print3D App	Remote monitoring and control from tablet, computers and smartphones
Input Data File Formats Supported	STL, VRML, PLY, ZPR
Client Operating System	Windows® 7 and Windows® Vista
Operating Temperature Range	55-75 °F (13 - 24 °C)
Operating Humidity Range	20-55 % - non-cond.
Dimensions (WxDxH) 3D Printer Crated 3D Printer Uncrated	 75 x 48 x 68 in (190 x 122 x 172 cm) 64 x 31.5 x 60 in (162 x 80 x 152 cm)
Weight 3D Printer Crated 3D Printer Uncrated	 750 lbs (340 kg) 600 lbs (272 kg)
Electrical	100-240 V, 15-7.5 A
Office Compatibility	•
Certification	CE, CSA

**For optimal print quality, it is recommended to leave a small gap (6mm) between printed models and box walls.*

VisiJet C4 Spectrum Material Properties — Heat-Cured Plastic Composite

Properties	Condition	Value
Tensile Strength	ASTM D638	24.8 MPa
Tensile Modulus	ASTM D638	1600 MPa
Elongation at Break	ASTM D638	3.6 %
Flexural Strength, Final	ASTM D638	36.5 MPa
Flexural Strength, Yield	ASTM D638	24.4 MPa
Flexural Modulus	ASTM D790	1125 MPa
Hardness Shore D	ASTM D2240	79
Heat Distortion Temperature @ 0.45 MPa	ASTM D648	57 °C

Make your design stand out. Communicate in strong, full-color plastic.

- **Trust your concept models and end-use parts** – The ProJet 4500 produces long-lasting plastic parts.
- **Make models as brilliant as you are** – Present every detail of your part, utilizing almost one million colors and superior surface finish capabilities.
- **Create parts faster** – The ProJet 4500 features fast print speeds, and parts are ready to use right out of the printer, no post-processing or painting required.
- **Conserve materials** – The ProJet 4500's material recycling capabilities, and its ability to produce parts that do not require supports, make it economical and eco-friendly.
- **3D print in your office** – From end to end, the ProJet 4500 is a fully integrated, clean and intuitive 3D printing solution.

Features:

- CMY binders embed color pixel-by-pixel, creating almost one million unique color possibilities
- Uses flexible and strong VisiJet C4 Spectrum plastic materials for durable models
- Features fast print speeds, and no post-processing is required
- All-in-one system with automatic material recycling
- No water hookups and no harsh chemicals required

ColorJet Printing (CJP)

ColorJet Printing (CJP) involves two major components: core and binder. Core material is spread in thin layers over the build platform with a roller. After each layer of core material is spread, color binder is selectively jetted from inkjet print heads over the core layer, causing the core to solidify. The build platform lowers with each subsequent layer of core and binder until the model is complete.

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