



3DSYSTEMS®

# COLORJET PRINTERS

Brilliant full-color parts with ProJet® CJP 3D printers



# Make Your Designs Stand Out

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## IMPROVE COMMUNICATION

Communicate the look, feel and style of product designs with high-resolution, vivid color prototypes printed in one step. You will win business by bringing realistic final product-like models to prospective accounts, sponsors and focus groups.

## REDUCE DEVELOPMENT COSTS

Create affordable prototypes early in the ideation stage of product development to identify design changes earlier. By accurately conveying the concept of the final part, all stakeholders will select the right design and reduce costly changes later in the development process.

## INCREASE INNOVATION

With the capability to easily and affordably print full-color prototypes in hours, CJP users can quickly explore more design options, obtain feedback, refine designs and repeat the cycle until designs are perfect.

## ACCELERATE TIME-TO-MARKET

CJP users around the world are bringing products to market faster, compressing design cycles by quickly and easily 3D printing on demand prototypes that look like the real product. Stakeholders can better visualize design intent, and can make faster and more effective decisions.

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## CJP APPLICATIONS INCLUDE:



### COMMUNICATION MODELS

3D print text labels, logos, design comments, or images directly onto concept and presentation models.



### MEDICAL MODELS

Realistic 3D models reduce operating time, enhance patient and physician communication, and improve patient outcome.



### INDUSTRIAL DESIGN VALIDATION

Rapid design iteration, evaluation and refining, including finite element analysis (FEA) results and assemblies.



### EDUCATIONAL MODELS

Engage students by bringing digital concepts into the real world with 3D color models that they can hold in their hands.



### ARCHITECTURAL AND GEOSPATIAL MODELS

Beautiful, highly detailed architectural and geospatial models improve communication and speed decision making process.



### ENTERTAINMENT AND ART PIECES

Produce stunning custom avatars, figurines, collectibles and more creations, with ease.

CJP parts realistically represent the final product's design intent



Complex models, like this heart, can be printed with gradients on 3D Systems CJP printers



## Benefits of ColorJet Printing

The ProJet CJP x60 series employs ColorJet Printing technology to produce high-resolution, true full-color realistic models and prototypes.

### UNIQUE FULL-COLOR

Produce high-resolution photo-realistic color models with full CMYK capability to better evaluate the look, feel, and style of product designs, without paint. Multiple print heads provide the best range of accurate and consistent colors, including gradients.

### FASTEST PRINT SPEED

CJP technology allows the fastest print speeds to deliver models in hours, not days, so you can generate multiple iterations at the same time or large parts faster. Its high throughput supports an entire department with ease.

### LOW OPERATING COSTS

Based on reliable and affordable ColorJet Printing (CJP) technology, ProJet CJP x60 printed parts costs are a fraction of competitive technologies. Featuring efficient material use, you eliminate waste and reduce finishing time as no supports are necessary and unused core material is recycled.

### SAFE AND ECO-FRIENDLY

Closed-loop powder loading, removal, and recycling of natural products based build materials make it eco-friendly and safe to use. There are no physical support structures to remove with cutting tools or toxic chemicals.

### FULL-COLOR TECHNOLOGY LEADERSHIP

CJP is the only 3D printing technology with the ability to deliver photo-realistic 3D models with the use of halftoning and variable drop-per-voxel technique. This is possible by using cyan, magenta, yellow and, in some printers, black binders to print onto a white powder. Utilizing three or four channels of color, CJP is not limited to one section of the rainbow. Colors can be placed anywhere on the model and be printed using full texture maps and UV mapping.



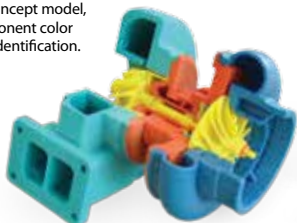
Dithering, or halftone printing produces a continuous tone effect at a sufficient viewing distance, forming gradients

# ProJet® CJP x60 Series

## The standard for true full-color printing, speed and affordability

With some of the fastest print speeds available, the ProJet CJP x60 series can transform your ideas into photo-realistic concept models and prototypes in hours, at a very low cost per part.

Turbocharger concept model, with each component color coded for easy identification.



### WIDEST COLOR SCHEME

Select from a range of printers and associated color options, from monochrome printing to professional quality color with full CMYK, to create stunningly beautiful, full-color parts.

### HIGH THROUGHPUT

With 5x–10x faster print speeds than all other technologies, you can build large or multiple models at the same time in hours. Increase throughput with the stacking and nesting capability and select the Draft printing mode (monochrome) on *Pro* models to print up to 35% faster.

Large-scale architectural models can be printed in one piece.



### GENEROUS BUILD VOLUMES

With a build volume of 20 x 15 x 9 inches (508 x 381 x 229 mm), the large capacity ProJet CJP 860*Pro* is the right choice for designers, engineers and architects who need to create very large models or high volumes of prototypes—up to 96 baseball-sized models in a single build.



### COLOR AND MUCH MORE

From educational settings to the most demanding commercial environments, 3D Systems' family of ProJet CJP x60 3D printers is best known for its unparalleled color capabilities, but equally as impressive are its exceptional print speeds, efficiency and low cost of operation. It is the ideal 3D printer for concept models—with or without color.

# VisiJet® PXL Materials

## for ProJet CJP x60 Series

3D Systems ProJet CJP x60 3D printers use VisiJet PXL materials to build realistic, high-definition, full-color concept models, assemblies and prototypes. Parts can be sanded, drilled, tapped, painted and electroplated, which further expands the options available for finished part characteristics.

Choose from a range of finishing options to meet your application requirements, from ColorBond infiltration for stronger functional prototypes to wax for creating concept models quickly, safely and affordably.



VisiJet PXL + Salt Water infiltrant, ideal for very economical monochrome models



VisiJet PXL + Wax infiltrant for fast, affordable, beautiful color models



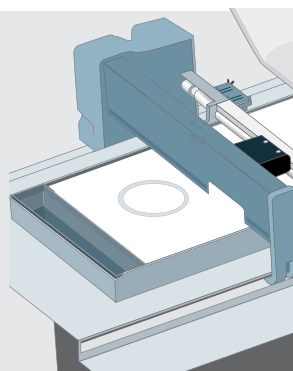
VisiJet PXL + ColorBond infiltrant for improved strength and color vibrancy of this bicycle seat model



VisiJet PXL + StrengthMax infiltrant to dramatically improve the strength of this paint gun ergonomic prototype

## COLORJET PRINTING TECHNOLOGY

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 high resolution model is complete.



	ProJet CJP 260C	ProJet CJP 360	ProJet CJP 460Plus	ProJet CJP 660Pro	ProJet CJP 860Pro
<b>Build envelope capacity</b> (W x D x H)	9.3 x 7.3 x 5 in (236 x 185 x 127 mm)	8 x 10 x 8 in (203 x 254 x 203 mm)	8 x 10 x 8 in (203 x 254 x 203 mm)	10 x 15 x 8 in (254 x 381 x 203 mm)	20 x 15 x 9 in (508 x 381 x 229 mm)
<b>Color</b>	CMY	White (monochrome)CMY		Full CMYK	Full CMYK
<b>Resolution</b>	300 x 450 DPI	300 x 450 DPI	300 x 450 DPI	600 x 540 DPI	600 x 540 DPI
<b>Build material</b>	VisiJet PXL	VisiJet PXL	VisiJet PXL	VisiJet PXL	VisiJet PXL
<b>Layer thickness</b>	0.004 in (0.1 mm)	0.004 in (0.1 mm)	0.004 in (0.1 mm)	0.004 in (0.1 mm)	0.004 in (0.1 mm)
<b>Min. feature size</b>	0.04 in (1 mm)	0.03 in (0.8 mm)	0.03 in (0.8 mm)	0.02 in (0.5 mm)	0.02 in (0.5 mm)
<b>Max. vertical build speed</b>	0.8 in/hour (20 mm/hour)	0.8 in/hour (20 mm/hour)	0.9 in/hour (23 mm/hour)	1.1 in/hour (28 mm/hour)	0.2 – 0.6 in/hour (5 – 15 mm/hour)
<b>Draft printing mode</b> (monochrome)	No	No	No	Yes	Yes
<b>Number of print heads</b>	2	1	2	5	5
<b>Number of jets</b>	604	304	604	1520	1520
<b>Material recycling</b>	Yes	Yes	Yes	Yes	Yes
<b>Automatic build platform cleaning</b>	No	No	Yes	Yes	Yes
<b>Integrated part cleaning</b>	Accessory	Integrated	Integrated	Integrated	Accessory



Multi-color globe model 3D printed with gradient blending.

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

## MANUFACTURING *THE* FUTURE™



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