

# ProJet® x60 Series

Professional 3D Printers



3DSYSTEMS®

## Quickly and affordably turn your ideas into full-color 3D printed models

The ProJet® x60 series creates stunningly beautiful, full-color parts like no other 3D printers can. With some of the fastest print speeds available, you can transform your ideas into photo-realistic concept models and prototypes in hours, at a very low cost per part. Communicate better, sell your ideas more effectively, unlock creativity, develop products faster, and close more business. Bring your ideas to life with up to one million unique colors in a single print. Generous build volumes coupled with the unique ability to nest parts horizontally and vertically make these printers perfect for high-throughput applications.

Using 3D Systems' ColorJet Printing (CJP) technology and the high-performance VisiJet® PXL™ material, ProJet x60s print parts with crisply defined features and precise color, so you can evaluate physical models of design concepts in their nearly finished state. You can print 3D color models so quickly and affordably, you'll do it every day, just like thousands of others for mechanical design, healthcare, architecture, education, geospatial, entertainment and packaging applications.



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

**MANUFACTURING THE FUTURE**

# ProJet® x60 Professional Printers set the standard for true full-color printing, speed and affordability



Photo courtesy of WhiteClouds



High throughput for high volumes of high-resolution full-color realistic models and prototypes.

## UNIQUE FULL COLOR

Color and high quality dramatically communicate design intent

- Produce realistic or vivid color models in one step
- Better communicate the look, feel and style of product designs
- 3D print text labels, logos, design comments, or images directly onto models
- A range of options, from monochrome printing to professional quality color
- Multiple print heads provide the best range of accurate and consistent colors

## FASTEST PRINT SPEED

High speed and throughput for a range of applications

- 5x-10x faster than all other technologies
- Output models in hours, not days
- Build multiple models at the same time
- Support an entire department with ease

## SAFE, OFFICE FRIENDLY & EASY TO USE

Ideal for everyday use in any office or school

- Quiet, safe, odor free
- Continuous negative pressure contains airborne particles
- Eco-friendly, non-hazardous build materials
- Zero liquid waste
- No support structures to remove, no cutting tools or toxic chemicals
- Requires minimal training and expertise
- Intuitive control panel for easy operation
- Easy tablet and smartphone remote connectivity

## LOWEST OPERATING COST

Affordable for all environments

- Unused core material is recycled for the next build, eliminating waste
- No physical supports are necessary
- Part costs are a fraction of competitive technologies
- Based on reliable, affordable ColorJet Printing (CJP) technology

## VisiJet® PXL™ Materials for ProJet x60 Series

The VisiJet PXL line of materials offers numerous capabilities to meet a variety of commercial applications. 3D Systems' ProJet x60 3D printers use VisiJet PXL materials set to build strong, high-definition, full-color concept models, assemblies and prototypes for design realization, advanced communication, and prototypes for design realization, advanced communication, and development and production cost reduction. Printed models benefit transportation, energy, consumer products, recreation, healthcare, education and other vertical markets. Parts can be sanded, drilled, tapped, painted and electroplated, which further expands the options available for finished part characteristics. Models also have high-temperature resistance, ideal for digital manufacturing and molding applications.

Infiltrant	ColorBond™	StrengthMax™	Salt Water Cure™
Composition	VisiJet PXL	VisiJet PXL	VisiJet PXL
Tensile Strength, MPa	14.2	26.4	2.38
Elongation at Break, %	0.23	0.21	0.04
Modulus of Elasticity, MPa	9,450	12,560	12,855
Flexural Strength, MPa	31.1	44.1	13.1
Flexural Modulus, MPa	7,163	10,680	6,355
Description	Instant-cure infiltrant ideal for color models to improve strength and color vibrancy and retention.	Two-part infiltrant ideal for functional models to dramatically improve the strength of the model.	Eco-friendly and hazard-free infiltrant. Ideal for monochrome models and draft-color. Provides additional surface hardness and modulus upon dipping, or spraying.

### Specialized applications for:

- Mechanical Design
- Healthcare
- Architectural, Engineering and Construction
- Education
- Geospatial
- Entertainment
- Packaging



# ProJet® x60 Series

## Professional 3D Printers



3DSYSTEMS®

Extend Innovation. Extend Production. Extend Choices.



**ProJet 160**



**ProJet 260C**



**ProJet 360**



**ProJet 460Plus**



**ProJet 660Pro**



**ProJet 860Pro**

	ProJet 160	ProJet 260C	ProJet 360	ProJet 460Plus	ProJet 660Pro	ProJet 860Pro
Resolution	300 x 450 dpi	300 x 450 dpi	300 x 450 dpi	300 x 450 dpi	600 x 540 dpi	600 x 540 dpi
Color	White (monochrome)	Basic CMY	White (monochrome)	Full CMY	Full CMYK	Full CMYK
Pastel or vibrant color options					•	•
Minimum Feature Size	0.016 inches (0.4 mm)	0.016 inches (0.4 mm)	0.006 inches (0.15 mm)	0.006 inches (0.15 mm)	0.004 inches (0.1 mm)	0.004 inches (0.1 mm)
Layer Thickness	0.004 inches (0.1 mm)	0.004 inches (0.1 mm)	0.004 inches (0.1 mm)	0.004 inches (0.1 mm)	0.004 inches (0.1 mm)	0.004 inches (0.1 mm)
Vertical Build Speed	0.8 inch/hour (20 mm/hour)	0.8 inch/hour (20 mm/hour)	0.8 inch/hour (20 mm/hour)	0.9 inch/hour (23 mm/hour)	1.1 inch/hour (28 mm/hour)	0.2 – 0.6 inch/hour (5 – 15 mm/hour); speed increases with volume of prototypes
Prototypes per Build*	10	10	18	18	36	96
Draft Printing Mode (monochrome)					•	•
Net Build Volume (xyz)	9.3 x 7.3 x 5 inches (236 x 185 x 127 mm)	9.3 x 7.3 x 5 inches (236 x 185 x 127 mm)	8 x 10 x 8 inches (203 x 254 x 203 mm)	8 x 10 x 8 inches (203 x 254 x 203 mm)	10 x 15 x 8 inches (254 x 381 x 203 mm)	20 x 15 x 9 inches (508 x 381 x 229 mm)
Build Materials	VisiJet PXL	VisiJet PXL	VisiJet PXL	VisiJet PXL	VisiJet PXL	VisiJet PXL
Number of Jets	304	604	304	604	1520	1520
Number of Print Heads	1	2	1	2	5	5
Automated Setup and Self Monitoring	•	•	•	•	•	•
Core™ Recycling	•	•	•	•	•	•
Automatic Build Platform Clearing			•	•	•	•
Fine Core™ Removal	Accessory	Accessory	Integrated	Integrated	Integrated	Accessory
Integrated Materials	•	•	•	•	•	•
Intuitive Control Panel	•	•	•	•	•	•
E-mail Notice Capability	•	•	•	•	•	•
Tablet/Smartphone Connectivity	•	•	•	•	•	•
Print3D App	Remote monitoring and control from tablet, computers and smartphones					
Input Data File Formats Supported	STL, VRML, PLY, 3DS, FBX, ZPR					
Client Operating System	Windows® 7 and Vista®	Windows® 7 and Vista®	Windows® 7 and Vista®	Windows® 7 and Vista®	Windows® 7 and Vista®	Windows® 7 and Vista®
Operating Temperature Range	55-75°F (13 - 24 °C)	55-75°F (13 - 24 °C)	55-75°F (13 - 24 °C)	55-75°F (13 - 24 °C)	55-75°F (13 - 24 °C)	55-75°F (13 - 24 °C)
Operating Humidity Range	20-55% - non-cond.	20-55% - non-cond.	20-55% - non-cond.	20-55% - non-cond.	20-55% - non-cond.	20-55% - non-cond.
Dimensions (WxDxH)						
3D Printer Crated	37 x 47 x 62 inches (94 x 119 x 158 cm)	37 x 47 x 62 inches (94 x 119 x 158 cm)	55 x 45 x 62 inches (140 x 114 x 158 cm)	55 x 45 x 62 inches (140 x 114 x 158 cm)	86 x 48 x 63 inches (218 x 122 x 160 cm)	64 x 58 x 73 inches (163 x 147 x 185 cm)
3D Printer Uncrated	29 x 31 x 55 inches (74 x 79 x 140 cm)	29 x 31 x 55 inches (74 x 79 x 140 cm)	48 x 31 x 55 inches (122 x 79 x 140 cm)	48 x 31 x 55 inches (122 x 79 x 140 cm)	76 x 30 x 57 inches (193 x 76 x 145 cm)	47 x 46 x 68 inches (119 x 116 x 162 cm)
Weight						
3D Printer Crated	437 lbs (198 kg)	437 lbs (198 kg)	553 lbs (251 kg)	602 lbs (273 kg)	1116 lbs (507 kg)	987 lbs (448 kg)
3D Printer Uncrated	365 lbs (165 kg)	365 lbs (165 kg)	395 lbs (179 kg)	425 lbs (193 kg)	750 lbs (340 kg)	800 lbs (363 kg)
Electrical	90-100V, 7.5A 110-120V, 5.5A 208-240V, 4.0A	90-100V, 7.5A 110-120V, 5.5A 208-240V, 4.0A	90-100V, 7.5A 110-120V, 5.5A 208-240V, 4.0A	90-100V, 7.5A 110-120V, 5.5A 208-240V, 4.0A	100-240V, 15-7.5A	100-240V, 15-7.5A
Noise						
Building	57 dB	57 dB	57 dB	57 dB	57 dB	57 dB
Core Recovery	66 dB	66 dB	66 dB	66 dB	66 dB	66 dB
Vacuum (open)	86 dB	86 dB	86 dB	86 dB	86 dB	86 dB
Fine Decoring	-	-	80 dB	80 dB	80 dB	-
Office Compatibility	•	•	•	•	•	•
Certifications	CE, CSA	CE, CSA	CE, CSA	CE, CSA	CE, CSA	CE, CSA

\* Based on baseball-size geometry.



**USA**  
Tel: +1 803.326.3900  
[moreinfo@3dsystems.com](mailto:moreinfo@3dsystems.com)

**UK**  
Tel: +44 1442 282 600  
[info@3dsystems-europe.com](mailto:info@3dsystems-europe.com)

**Germany, Scandinavia,  
Eastern Europe, Middle East**  
Tel: +49 6151 357 0  
[info@3dsystems-europe.com](mailto:info@3dsystems-europe.com)

**Asia-Pacific**  
Melbourne Tel: +61 3 9819 4422  
Sydney Tel: +61 2 9516 5571  
[3dprinters.asiapac@3dsystems.com](mailto:3dprinters.asiapac@3dsystems.com)

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.

© 2014 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. The 3D Systems logo, stylised text, ProJet and VisiJet are registered trademarks of 3D Systems, Inc.