

Stratasys

J8 Series

Unmatched Product Realism

The J8™ series features multiple versatile, multimaterial 3D printers powered by PolyJet Technology™. Whether you need full-color consumer product prototypes or multimaterial models for functional testing, the J8 Series offers the perfect 3D printing solution.

The Stratasys J826™ Prime and J850™ Prime 3D printers deliver unrivaled aesthetic results with full-color capability including texture mapping and color gradients. This lets you create prototypes that look and feel like real products, and accurately show design intent in color, material and finish.

These printers are PANTONE Validated™ making the PANTONE MATCHING SYSTEM (PMS) colors available in a 3D printing solution. With expansive color combinations to choose from and multimaterial capability, the Stratasys J8 Series printers let you create the most realistic models and prototypes in the shortest time possible, without the need for painting or assembly.

The Stratasys J850 Pro provides all the high-quality, multimaterial capabilities of the J850 Prime, without the addition of full-color capabilities. It provides the accuracy and fast workflow of PolyJet Technology, making it a versatile solution for engineering and rapid prototyping applications that don't require color.

Unparalleled Capability

J8 Series printers provide unmatched capability to achieve maximum realism for 3D printing applications in the design, medical and educational disciplines. The vast array of colors¹ and material properties, from rigid to flexible and opaque to transparent, eliminate the need to use multiple processes to create realistic prototypes and models.

Leverage the capability to combine seven different materials in a single part for unprecedented combinations of color, transparency and flexibility. Mimic the clarity of acrylic and glass with VeroUltra™Clear material. Combine flexible materials and color to make patient-specific surgical planning models that improve patient outcomes. Simulate the properties of polypropylene with digital materials that combine Digital ABS Plus™ and flexible Agilus30™, for functional and durable prototypes. On the J826 Prime and J850 Prime, design and print color-critical parts with confidence using colors from the PANTONE® Formula Guide Solid Coated and all of the PANTONE® SkinTone™ colors.

Fast and Efficient Workflow

Streamline your workflow with GrabCAD Print™ software. GrabCAD Print lets you to print directly from your favorite professional CAD formats, avoiding time usually spent converting and fixing STL files. Matching PANTONE Colors is a single-click step in GrabCAD Print, eliminating time-consuming painting or trial-and-error color matching. Use smart default settings, tooltips and notifications to guide you through a seamless printing process. Work with detailed views of your model, tray, and slice preview so you can make necessary adjustments before going to print.

The large, seven-material capacity of the Stratasys J8 series 3D printers means you can load your most used resins and avoid downtime associated with material changeovers. Multiple print modes let you adjust the speed and quality of the print to meet your specific needs. For the fastest creation of concept models on the J850 printers, use Super High Speed mode with DraftGrey™ material. Additional print modes support multiple materials and higher print resolutions. The J8 Series features two support material options: SUP705™, removed with a water jet, and SUP706B™, which is soluble and easily removed for automated post-processing and increased geometric freedom to print complex and delicate features and small cavities.

¹ - Full color capabilities available only on J826 Prime and J850 Prime.

Product Specifications

Model Materials	<p>J826 Prime and J850 Prime:</p> <ul style="list-style-type: none"> • Vero™ family of opaque materials including neutral shades and vibrant VeroVivid™ colors • Agilus30™ flexible material • Transparent VeroClear™ and VeroUltraClear 	<p>J850 Pro:</p> <ul style="list-style-type: none"> • Vero family of opaque materials in neutral shades (black, white and gray) • Agilus30 flexible material • Transparent VeroClear and VeroUltraClear
Digital Model Materials	<p>J826 Prime and J850 Prime Unlimited number of composite materials including:</p> <ul style="list-style-type: none"> • Over 500,000 colors • Digital ABS Plus and Digital ABS2 Plus in ivory and green • Rubber-like materials in a variety of Shore A values • Translucent color tints 	<p>J850 Pro Composite materials including:</p> <ul style="list-style-type: none"> • Digital ABS Plus and Digital ABS2 Plus in ivory • Rubber-like materials in a variety of Shore A values • Translucent color tints
Support Materials	SUP705 (water jet removable) SUP706B (soluble)	
Build Size	<p>J826 Prime: 255 x 252 x 200 mm (10 x 9.9 x 7.9 in.)</p> <p>J835: 350 x 350 x 200 mm (13.8 x 13.8 x 7.9 in.)</p> <p>J850 Pro/Prime: 490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)</p>	
Layer Thickness	Horizontal build layers down to 14 microns (0.00055 in.) 55 microns (0.002 in.) in Super High Speed mode	
Workstation Compatibility	Windows 10	
Network Connectivity	LAN - TCP/IP	
System Size and Weight	<p>J826 Prime System: 820 x 1310 x 665 mm (32.28 x 51.57 x 26.18 in.); 234 kg (516 lbs.)</p> <p>J826 Prime Material Cabinet: 1119 x 656 x 637 mm (44 x 25.8 x 25.1 in.); 153 kg (337 lbs.)</p> <p>J835/J850 Pro/J850 Prime System: 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.)</p> <p>J835/J850 Pro/J850 Prime Material Cabinet: 1119 x 656 x 637 mm (44 x 25.8 x 25.1 in.); 153 kg (337 lbs.)</p>	
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30-70% (non-condensing)	
Power Requirements	100–120 VAC, 50–60 Hz, 13.5 A, 1 phase 220–240 VAC, 50–60 Hz, 7 A, 1 phase	
Regulatory Compliance	CE, FCC	
Software	GrabCAD Print	
Build Modes	<p>High Quality: up to 7 base resins, 14-micron (0.00055 in.) resolution</p> <p>High Mix: up to 7 base resins, 27-micron (0.001 in.) resolution</p> <p>High Speed: up to 3 base resins, 27-micron (0.001 in.) resolution</p> <p>Super High Speed²: 1 base resin, 55 micron (0.002 in.) resolution</p>	
Accuracy	<p>For J826 Prime: Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ.</p> <p>For J835 and J850: Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ or ± 0.06% of part length, whichever is greater.</p>	

² - Not available on the J826 Prime.

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