Stratasys J826™ Prime and J850™ Prime

Unmatched Product Realism

The J826 Prime and J850 Prime are versatile, multi-material 3D printers powered by PolyJet™ Technology. Whether you need full-color consumer product prototypes or multi-material models for functional testing, the J826 Prime and J850 Prime offer 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 multi-material capability, these printers let you create the most realistic models and prototypes in the shortest time possible, without the need for painting or assembly.

Unparalleled Capability

The J826 Prime and J850 Prime printers provide unmatched capability to achieve maximum realism for 3D printing applications in the design, medical and educational disciplines. The vast array of colors 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. 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 J826 Prime and J850 Prime 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 J826 Prime and J850 Prime printers feature 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.

J826 Prime and J850 Prime

Product Specifications

Model Materials	• VeroUltra™ opaque materials in black and white • Vero™ family of materials including neutral shades and vibrant VeroVivid™Cyan, VeroVivid™Magenta and VeroVivid™Yellow colors • Agilus30™ flexible material • Transparent VeroClear™ and VeroUltraClear • Digital ABS Plus ivory
Digital Model Materials	Unlimited number of composite materials including: • Over 600,000 colors with VeroUltra • Rubber-like materials in a variety of Shore A values • Translucent color tints
Support Materials	SUP705 (water jet removable) SUP706B (soluble)
Build Size	**J826 Prime:** 255 x 252 x 200 mm (10 x 9.9 x 7.9 in.) **J850 Prime:** 490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)
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	**J826 Prime System:** 820 x 1310 x 665 mm (32.28 x 51.57 x 26.18 in.); 234 kg (516 lbs.) **J826 Prime Material Cabinet:** 1119 x 656 x 637 mm (44 x 25.8 x 25.1 in.); 153 kg (337 lbs.) **J850 Prime System:** 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.) **J850 Prime Material Cabinet:** 1119 x 656 x 637 mm (44 x 25.8 x 25.1 in.); 153 kg (337 lbs.)
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, EAC, RCM, R-NZ[1]
Software	GrabCAD Print
Build Modes	**High Quality:** up to 7 base resins, 14-micron (0.00055 in.) resolution **High Mix:** up to 7 base resins, 27-micron (0.001 in.) resolution **High Speed:** up to 3 base resins, 27-micron (0.001 in.) resolution **Super High Speed:** 1 base resin, 55 micron (0.002 in.) resolution
Accuracy	**For J826 Prime:** Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above100 mm – ±200µ. **For J850 Prime:** 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.

[1] J826 Prime does not hold EAC, RCM, R-NZ regulatory compliance.

USA - Headquarters
7665 Commerce Way
Eden Prairie, MN 55344, USA
+1 952 937 3000

EMEA
Airport Boulevard B 120
77836 Rheinmünster, Germany
+49 7229 7772 0

ISRAEL - Headquarters
1 Holtzman St., Science Park
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000

ASIA PACIFIC
7th Floor, C-BONS International Center
108 Wai Yip Street Kwun Tong Kowloon
Hong Kong, China
+ 852 3944 8888

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www.stratasys.com/contact-us/locations

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