

Stratasys J835 and J850

Unmatched Product Realism

The Stratasys J835™ and J850™ 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, the Stratasys J835 and J850 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 J835 and J850 provide unmatched capability to achieve maximum realism for 3D printing applications in the design, medical and educational disciplines. The printers' 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 VeroUltraClear™ material. Combine flexible materials and color to make patient-specific surgical planning models that improve patient outcomes. Nearly 2000 colors from the PANTONE® Formula Guide Solid Coated and all of the PANTONE® SkinTone™ colors let you design and print color-critical parts with confidence.

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 J835 and J850 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, use Super High Speed mode with DraftGrey™ material. Additional print modes support multiple materials and higher print resolutions. The J835 and J850 also 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.

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Product Specifications

Model Materials	<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™
Digital Model Materials	<p>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
Support Materials	<p>SUP705 (water jet removable)</p> <p>SUP706B (soluble)</p>
Build Size	<p>Stratasys J835: 350 x 350 x 200 mm (13.8 x 13.8 x 7.9 in.)</p> <p>Stratasys J850: 490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)</p>
Layer Thickness	<p>Horizontal build layers down to 14 microns (0.00055 in.)</p> <p>55 microns (0.002 in.) in Super High Speed mode</p>
Workstation Compatibility	Windows 10
Network Connectivity	LAN - TCP/IP
System Size and Weight	<p>System: 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.)</p> <p>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	<p>100–120 VAC, 50–60 Hz, 13.5 A, 1 phase</p> <p>220–240 VAC, 50–60 Hz, 7 A, 1 phase</p>
Regulatory Compliance	CE, FCC, EAC
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 Speed: 1 base resin, 55 micron (0.002 in.) resolution</p>
Accuracy	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.

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