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BROCHURE
POLYJET

Amazing possibilities at every turn

Go beyond visual printing by adding tactile, functional and sensory capabilities to your in-house design process. From fast concept models to quality high-fidelity prototypes, the office-friendly Stratasys® J55™ Prime 3D printers extends maximum designer output in an affordable package.

Ideas spun to life.

From perfecting products to applying concepts learned in the classroom, the J55 Prime can help you realize any number of design ideas. The J55 Prime offers a rotating print platform for outstanding surface finish and printing quality, and features multimaterial capabilities and material configurations for both industrial and mechanical design.

Designed for consistent, stable performance, the J55 Prime requires zero mechanical calibrations and features a “ready-to-print” mode, so you can turn ideas into reality without interruption.

J55 Prime Improving Your Productivity

Productivity at your elbow. Office, classroom, or studio environment – the J55 Prime office solution is engineered to fit seamlessly into a professional space, offering design and functional flexibility.

Compact.

The J55 Prime features the best in-class footprint to printing tray ratio on the market, which means less bulk in your office and a better yield with more options.

Odor free.

Studios, offices and classrooms are not production facilities – and shouldn't need to be. The smell free system uses a ProAero Air Extractor to effectively capture and filter out fumes, for a safe and odor free operation.

Ultra-Quiet.

The J55 Prime is ultra-quiet, operating under 53 decibels – that's about the same as a household refrigerator.

Cost effective.

The Stratasys J55 Prime makes transforming your workflow a cynch while offering multimaterial prototyping - at an accessible price.

Ease of use.

Leverage an intuitive, three-step color 3D printing workflow – design, import, and print. Simply import designs using native CAD files or 3MF file formats and send models to the J55 Prime using GrabCAD Print software.

GrabCAD Printer Connectivity

Connect your PolyJet Printers into the software systems you use to manage your production process. GrabCAD Printer Connectivity integrates Stratasys PolyJet printers with enterprise applications such as ERP, BI, and Digital Rights Management. It also enables communication with MES systems to enable automation and production data collection, in addition to analytics.

Quality.

With the J55 Prime, there's no need to compromise.
Upgrade your design process with high resolution, fast prints, multi-material flexible capabilities and a full color range.


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PUSH

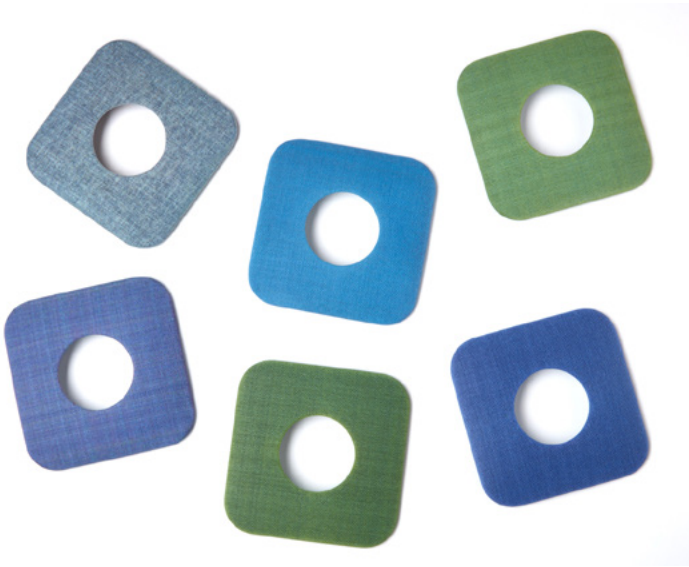
Your design cycle, simplified.

Rough: Concept Models.

Reduce time spent on manual models, and iterate initial designs faster and more often. The economical DraftGrey material makes concept models easy and affordable. In the time it takes to make a single prototype using traditional methods, you can get 5x more design iterations with the Stratasys J55 Prime 3D printer.

Ready: Detailed Designs.

Incorporate color early and often. CMF designs can be introduced weeks earlier than traditional methods allow, including parts printed with several colors and textures thanks to multi-material capabilities and a simple software workflow. Parts printed on the J55 Prime require little to no post-processing, reducing labor and making your design process run smoother.



Right: High-Fidelity Prototypes.

With high-quality full-color materials and realistic surface finishing, the J55 Prime lets you create parts that look, act and feel like the real thing. Instead of wasting time and money on outsourcing, create everything in-house. Realistic prototypes let you correct mistakes and verify designs more efficiently, leading to quicker decision making and quicker approvals.

Communicate with reality.

Create prototypes that feature full color, multiple texture and truly functional realism. The J55 Prime can produce more than 640,000 distinguishable color combinations, print five resins simultaneously and provide multimaterial capabilities that bring even the most imaginative ideas to life – allowing you to make more accurate design decisions, add functionality and skin contact capabilities earlier in the process.

Power Designs With Color

Improve the speed, efficiency and color fidelity of your prototypes by 3D printing with PANTONE® colors. As a PANTONE Validated™ 3D printer, the J55 Prime enables you to match Stratasys CMYK colors to more than 1,900 printable PANTONE Colors, Solid Coated and SkinTones™.

See the specs.

Product Specifications	
Model Materials	■ VeroCyanV™ □ VeroUltra™ WhiteS ■ VeroMagentaV™ ■ VeroUltra™ BlackS ■ VeroYellowV™ □ VeroUltra™ ClearS □ VeroPureWhite™ □ Elastico™ Clear ■ VeroBlackPlus™ ■ Elastico™ Black □ VeroClear™ □ Vero™ ContactClear ■ DraftGrey™ □ Digital ABS Plus
Support Materials	SUP710S™ / Water Soluble Support – WSS™150
Build Size/Printing Area	Round Print Tray with up to 1,174cm^2 (182 in^2) Print Height: 190mm*** (7.48 in.)***
Layer Thickness	Horizontal build layers down to 18 microns (0.0007 in.)
Network Connectivity	LAN - TCP/IP
System Size and Weight	651 x 661 x 1511mm (25.63 x 26.02 x 59.49 in.); 228 kg (503 lbs.)
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30-70% (non-condensing)
Power Requirements	100-240VAC, 50-60 HZ, 10A, 1 phase
Regulatory Compliance	CE, FCC, EAC, cTUVus, CB, RCM
Software	GrabCAD Print, SDK (API)
Build Modes	High Quality Speed (HQS) – 18.75µm
Accuracy	Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150µ; above 100 mm – ±0.15% of part length.** Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – ±180µ; above 100 mm – ±0.2% of part length.**

** Measured when ambient temperature is 23 °C and relative humidity is 50%.
*** The maximal printable height for the J55™ Prime is 187 mm (7.36 in.).

Imagine what you could do.

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Certified

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