TECHSTYLE

Discover the magic of 3DFashion

stratasys | **ALTEM** TECHNOLOGIES

Limitless Creativity

The Stratasys TechStyle™ 3D printer is making waves with its revolutionary 3DFashion™ printing technology. For the first time ever, 3D algorithms can be printed direct-to-textile, creating fascinating illusions with color and light. Parametric design, computed 3D design and aesthetics can now be created by a computer-generated design flow, that cannot be completed manually. In an industry where it was once not possible, TechStyle enables fashion designers to truly unleash their imagination with limitless creations and unparalleled flexibility through a wide range of rigid and flexible materials. The multiple advantages over traditional forms of design enable the creation of fantastic optical illusionary effects, direct to textile and garments, in clear print and in full color.
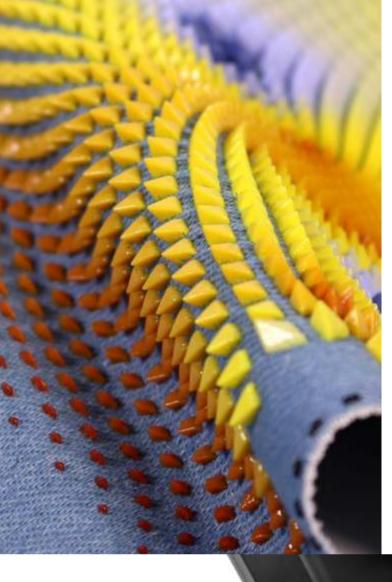

3D Kimono "WeAreAble" collection
By **Ganit Goldstein** in collaboration with STRATASYS
(image above and image on cover)

Design Freedom

TechStyle 3D printer allows designers and high-end fashion brands a new level of design freedom, for personalization and customization, in low-volume production, with seamless integration and minimum downtime.

TechStyle has a virtually limitless color palette to choose from, with over 600K available colors and Pantone Validated™ pallets in both matte and glossy finishes. Your required print area can be designated on a stretch of fabric up to 2m^2.

The printer's cabinet holds 7 cartridges for materials, from vivid colors to full transparency that will support any design, including textures with both rigid and flexible materials. Easily print with your favorite design software from the multitude of compatible options and output your file direct to GrabCAD™ for printing.

Greta Oto Dress
By **threeASFOUR and Travis Fitch**
Designed for the STRATASYS Chro Morpho collection

Unparalleled Productivity

The vast array of colors and material properties, from rigid to flexible and opaque to transparent, will eliminate the need for multiple processes to create unique volumetric colorful designs on textile and garments. The J850 TechStyle's flexible printing capabilities are unmatched, with 2-mode capability that enables it to print directly onto textiles as well as used garments for repurposing. 3D models for fashion accessories, such as buttons, cufflinks and bag clips, can also be printed, to a maximum height of 50mm. This printer also features an interchangeable tray, so that during a print you can prepare a second tray and be ready to quickly switch for faster production runs and minimum down time. The unique Fabric Analyzer technology will analyze a fabric sample for digital design optimization, obliterating the need to waste time and costs on multiple iterations prior to production. An exclusive Print on Existing Patterns process will allow you to 3D print on predefined patterns within a fabric such as stars, polka dots etc.

J850™ TechStyle™
Direct-to-textile, multi-material, full color 3D printer

Efficient Workflow

Streamline your workflow with GrabCAD Print software by printing directly from your favorite professional CAD formats, with the addition of advanced rendering software. Eliminate time-consuming painting or trial-and-error Pantone color matching with a single-click step in GrabCAD Print. 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 any necessary adjustments before going to print. The large, seven-material capacity of the Stratasys J850 TechStyle printer means you can load your most used resins and avoid downtime associated with material changeovers. GrabCAD Print software is an Industry 4.0 compatible system that will fully integrate with manufacturing execution systems (MES) and your digitized production floor.

Arid Collection
By **Julia Koerner** in collaboration with STRATASYS

Sustainable Manufacturing

Stratasys J850 TechStyle 3D printer promotes mindful manufacturing and low volume production, while eradicating oversupply and reducing unnecessary waste. As a founding member of the Additive Manufacturer Green Trade Association, Stratasys TechStyle eliminates the need for excessive inventories, while used clothing and accessories can be repurposed with the addition of 3D printed elements.

Responsible consumption, industry innovation and revised supply chains go hand-in-hand with 3D printing technologies. This enables designers to generate full color, intricate designs, in-house, that can't be achieved through other processes. This is fashion forward; 3D Printing a better tomorrow, today.

Four Seasons
By **Ganit Goldstein** in collaboration with STRATASYS

All The Specs You Need

Product Specifications	

Model Materials	• Vero™ & VeroUltra™ family of opaque materials + neutral shades and vibrant VeroVivid™ colors • Agilus30™ Clear, Black, White, Cyan, Magenta, Yellow • Transparent VeroClear™ and VeroUltra™Clear • Vero™ContactFlex for soft touch model coating
Digital Model Materials	**Unlimited number of digital materials including:** • Over 600,000 colors and Pantone® Validated palettes • Translucent color tints • Flexible tactile materials in a variety of textures and colors
Support Materials	SUP705™ (water jet removable) SUP706B™ (soluble)

Printed Textile Testing*	ISO standards	100% Cotton	100% Polyester	50/50% Cotton Polyester	Linen
	ISO 105-C06:2010 @40c (1-5)	5	5	5	5
	ISO 105-C06:2010 @60c (1-5)	5	5	5	5
	ISO 105-B02:2013 (1-8)	7-8	7-8	7-8	7-8

Build Size	**Fabric Size Handling:** min 560 x 460mm; max 2 x 2m **Fabric Thickness:** 0.1-3.0mm Interchangeable Tray for smooth production runs
Effective Printing Area	460 x 360 x 50 mm (18.1 x 14.2 x 1.9 in) on a stretch of fabric up to 2m²
Layer Thickness	Horizontal build layers down to 27-micron (0.001 in.)
Workstation Compatibility	Windows 10
Network Connectivity	LAN - TCP/IP Industry 4.0 Compliance
System Size and Weight	**J850 TechStyle System:** 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.) **J850 TechStyle 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-NZ1
Software	GrabCAD Print, SDK (API)
Build Modes	**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
Accuracy	**J850 TechStyle System:** 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. **Print on Existing Patterns:** up to 1mm **Software:** 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.

*Test results based on 50 x 50 cm textile samples comprising 3D printed elements of various colors.

TechStyle

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Setae Jacket by **Julia Koerner** Designed for the STRATASYS Chro Morpho collection

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