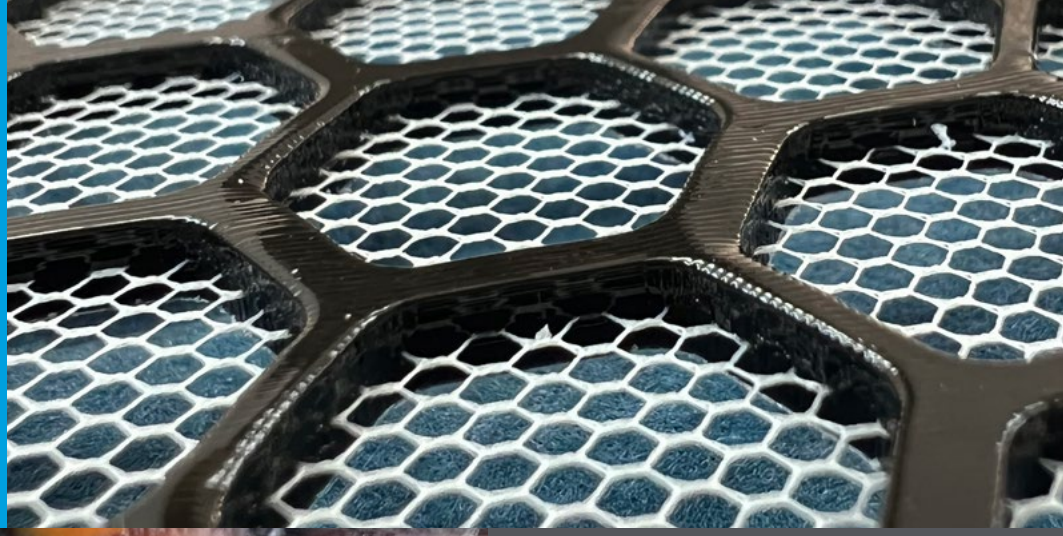
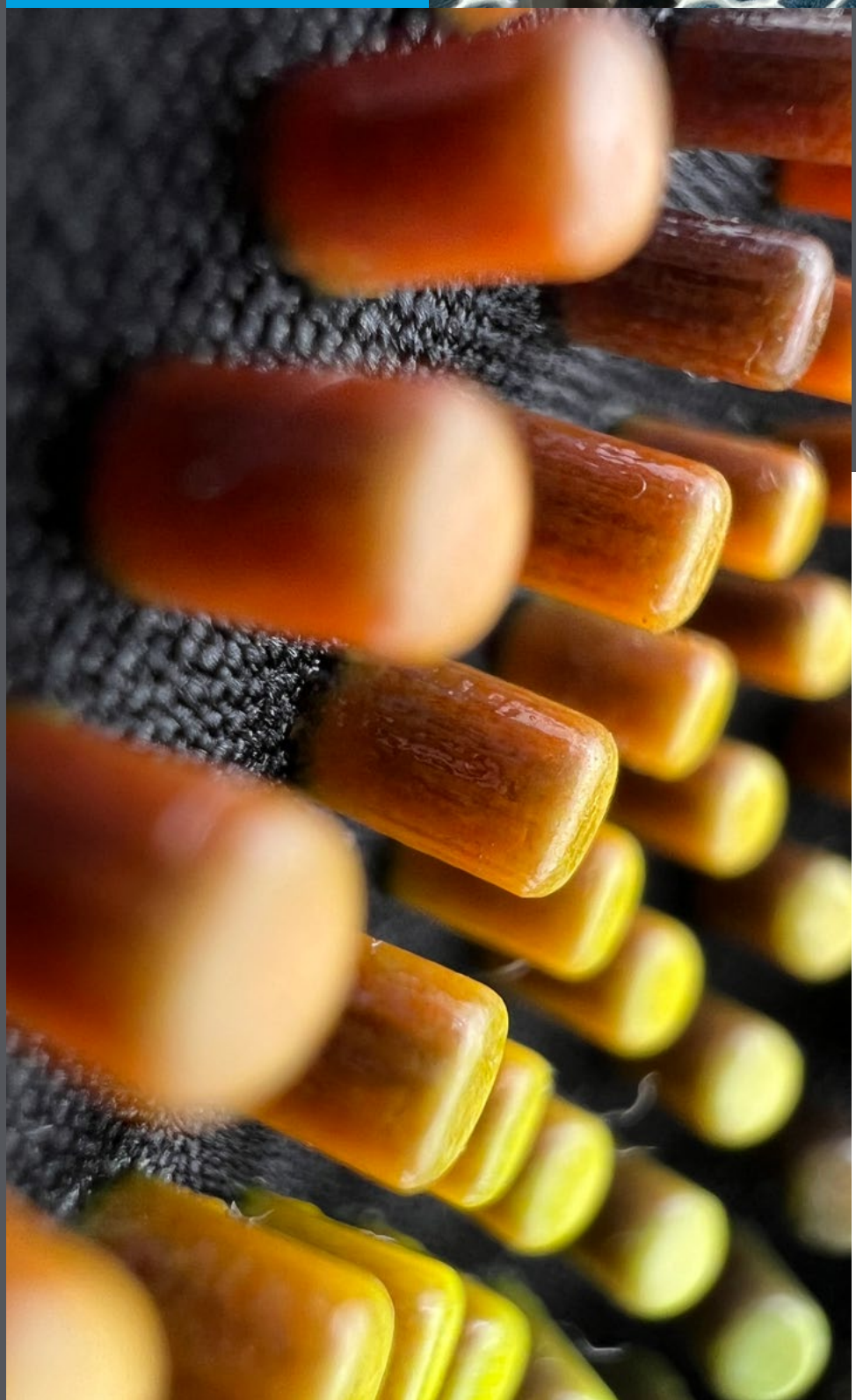




FabriX™ Innovation Kit

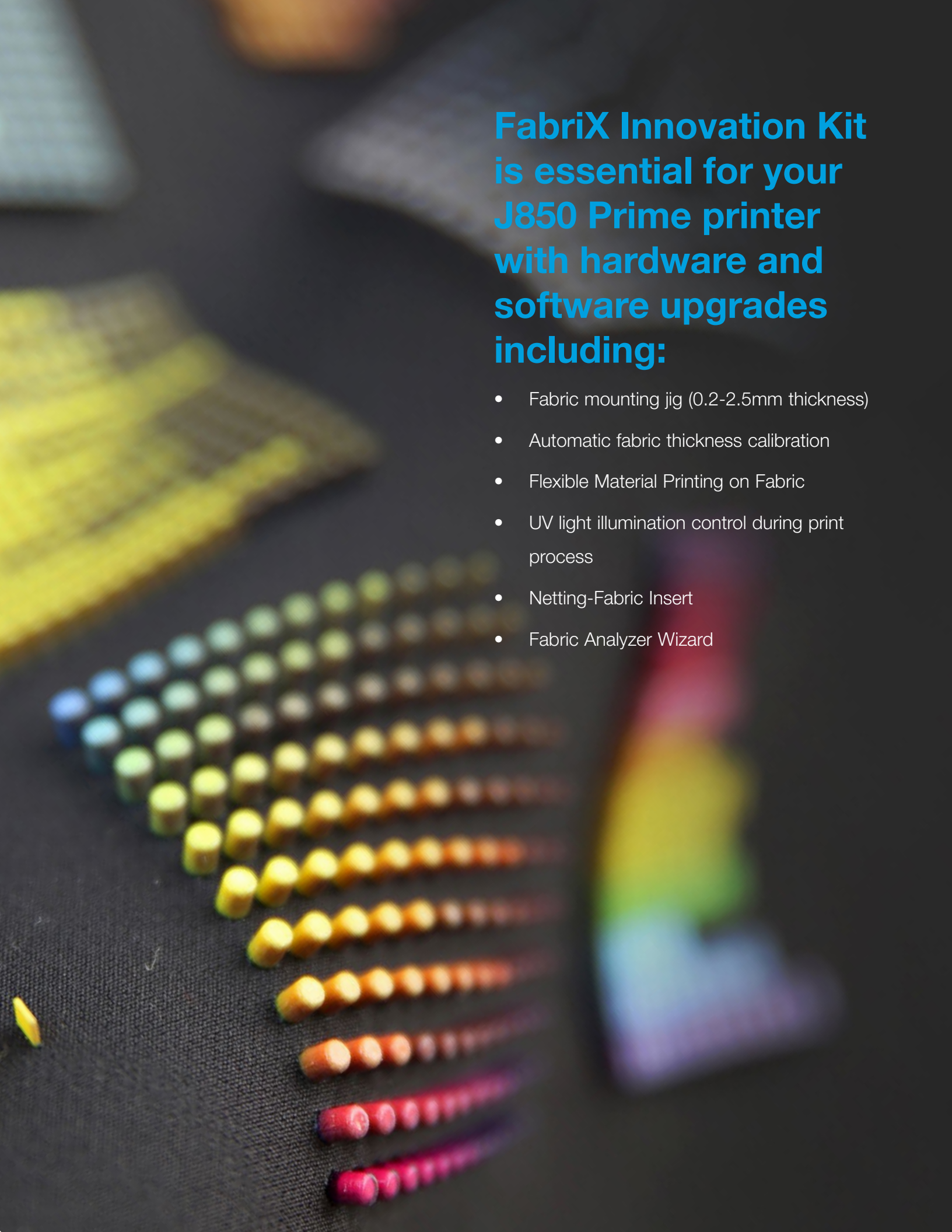
Brochure

TRI-TECH 3D
STANFORD MARSH GROUP

FabriX™
Innovation Kit

FabriX™ Innovation Kit extends the ultra-realistic CMF (Color-Material-Finish) capabilities of the J850™ Prime even further with an easy-to-use, comprehensive, and repeatable solution for 3D printing on fabric and flexible substrates. Experiment with new materials and printing techniques for a wider range of options. Explore the possibilities of 3D printing on fabric and create design prototypes that are both innovative and stylish. FabriX is the ideal tool kit for designers at R&D and Innovation Centers in the Education, Consumer Goods, Wearable Electronics and the Concept Car and Automotive Industries.

Powered by Stratasys 3DFashion™ technology that, together with FabriX, enables optimization of the absorption rate mechanism for perfect adhesion of jetted materials on a variety of fabric types. Designers and researchers can easily 3D print on fabric, in full color, and clear print creating extraordinary designs on textile for educational research, military, wearable electronics, footwear and more. FabriX innovation kit transforms the J850 Prime into an end-to-end hybrid system for printing both 3D model parts and 3D printing on flexible, flat substrates, such as fabric, carbon fiber, flexible polymers, mylar, netting, canvas and more. The ultimate solution for design and concept 3D printing with a super simple workflow that is easily implemented using our GrabCAD™ Print software.



FabriX Innovation Kit is essential for your J850 Prime printer with hardware and software upgrades including:

- Fabric mounting jig (0.2-2.5mm thickness)
- Automatic fabric thickness calibration
- Flexible Material Printing on Fabric
- UV light illumination control during print process
- Netting-Fabric Insert
- Fabric Analyzer Wizard

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				
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 fabric adhesion certification	ISO standards	100% Cotton	100% Polyester	50/50% Cotton Polyester	Linen
	Color Fastness to Laundering @40c - ISO 105-C06:2010 (1-5)	5	5	5	5
	Color Fastness to Laundering @60c - ISO 105-C06:2010 (1-5)	5	5	5	5
	Color Fastness to Light ISO 105-B02:2013 (1-8)	7-8	7-8	7-8	7-8
Fabric Size	**Fabric Size Handling:** min 560 x 460mm **Fabric Thickness:** 0.2-2.5mm				
Effective Printing Area (After upgrade)	460 x 360 x 200 mm (18.1 x 14.2 x 7.8 in)**				
Layer Thickness	Horizontal build layers down to 27-micron (0.001 in.)				
Workstation Compatibility	Windows 10				
Network Connectivity	LAN - TCP/IP				
System Size and Weight	**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-NZ1				
Software	GrabCAD Print, SDK (API)				
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 resins, 55 -micron (0.002 in.) resolution				
Accuracy	**J850Prime 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				

*Test results based on 50 x 50 cm textile samples comprising 3D printed elements of various colors.
**Effective print size compared to J850 Prime without FabriX Innovation kit upgrade is 490x390

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