CRAIG GREEN x STRATASYS

EnviroShift

Combining 3D printing technology and clothing to create the perfect camping gear and camouflage to blend in with nature.

2025 Fashion Scholarship Fund Design and Product Development



EnviroShift by Craig Green x Stratasys

Fashion and technology are two industries that are constantly evolving with the times. The two industries cross paths on numerous avenues. Through a collaboration with Stratasys, this collection's goal is to bring the advancements of 3D printing into the world of fashion.

Stratasys is the global leader in 3D printing technology. They are the only company with direct-totextile 3D printing. Their printer, J850[™] TechStyle[™] 3D Printer, can print 7 different materials at once in full color, transparency, and detailed textures. This technology is well suited for creating optical illusions. In this collection, we will be using hemp-based printing materials in an effort to keep sustainability in mind.

At Craig Green, innovation and rethinking your process is important to our brand. Challenging forms and creating something unique and emotive are qualities to strive for. Using Stratasys' 3D printing technology, the textual optical illusions open a new avenue to explore ways to create patterns and effects.

Through the collaboration with Stratasys, this collection explores new ways for consumers to upgrade their camping gear. Using 3D printing, the patterns and camouflage come to life and create the optical illusion of changing to fit your surroundings. This is ideal for those campers who like to go hunting. Uniform and utility are two important concepts at Craig Green. Fitting in with the outdoors theme, this collection features various unique jackets and trousers with illusions printed on by Stratasys's technology.

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Technology Trends

When people hear 3D printing, they think of plastic. However, there are actually a lot of sustainable versions of materials for this technology, like the hemp-based material in this collection.

Accessories and even footwear have begun to be created using 3D printing. As the global leader in the 3D printing industry, Stratasys has found a way to integrate it into fabric. (3D)

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as it reduces waste, water and energy usage and some machines can use recycled plastics.

As the global leader in the 3D printing industry, Stratasys has found a way to integrate it into fabric.



Impact

The combination of 3D printing and clothing in EnviroShift is a step towards a new way of designing and applying patterns. It provides an upgrade to pre-existing camouflage and can make it more effective. A 3D printed pattern that shifts when you move in certain ways can change the way patterns are seen and utilized.

Additionally, new materials and methods are developing within 3D printing to make it more sustainable. The hemp-based printing material used for this collection is one of those sustainable solutions within 3D printing.



New Technology

As the global leader for 3D printing, Stratasys' has many types of 3D printers and materials. Within the Craig Green x Stratasys collaboration, we would utilize their J850™ TechStyle[™] 3D Printer. This printer does direct-to-textile 3D printing. With Stratasys' technology, seven different materials can simultaneously be printed onto the fabric. For this collection, we will be using hempbased materials in the printer to maintain some sustainability. This printer also prints in full color, transparencies and detailed textures. With this technology, we can create more textural optical illusions on the garments. These prints will change as the wearer moves in their environment, giving the impression of camouflage and the ability of a chameleon.

CREE





19-0712 TCX Demitasse

18-1048 TCX Monk's Robe

19-0220 TCX Douglas Fir

17-0332 TCX Spindle Tree

14-0115 TCX Foam Green





Polyester Jersey 90% Polyester, 10% Elastane



Hemp-Based 3D Printing Filament

Recycled Polyester Stretch Knit Fleece 100% Recycled Polyester



*Fabrics also in other colors besides what it is pictured in 9 GREEN

Prints



*Original Print

The 3D printed panels will be in camouflage that is made of color instead of realistic trees and leaves. When fabric with this pattern on top moves, it ripples and looks as though the pattern itself is in motion.













\$30 printed patterns one in a hemp-based filement

LOOK I

3D printed

nybn

camo on entirely

beneath the como is

wader repellent

64 ports; fabric

green undershirt made from Polyester Jersey

Como

a zippered sections to give the wearer the choice of length

Cropped

Sweatshirt

made from

00% recycled

Polyster fleece

CRAIG

12 GREEN



\$ 3D printed is made oran a homp-based Silament





-

54

5.1

long slea

green shirt

Sleeve ; burn

of the coller A

coller ad your

made from

recycled Poly

green interior; opean details on shadders and Pakets; the fabric beneath the 3D is a water repellent nylon

green corojo

Ponts with

the pockets have the

30 printed camo on them; the ports are made from water

repellent nylon

13

mony pockets;

RAIG

CREEN

3D printed cano

patterned cout;





oversized hood frue covoing

collered botton dawn shirt made from

Water repelling nylon; covered completely in 30

printed camo

in recycled Polyest

3D printed camo is made from hemp-based Silaments

oversized coat made from recycled polyester fleece; large collor; mony parkets

cargo pants with layered pockets which Continue cround buck; 21ppers for change from ports to shorts





Conclusion

This collaboration between Craig Green and Stratasys is just the beginning of the ways that 3D direct-to-textile printing can enhance and reshape the way we think about patterns and prints. With this technology applied to patterns, the garment can completely change into a different colored one with a simple movement of the wearer. Using Stratasys' one-of-a-kind technology to create the camouflage print on the garments gives the print a leg up from regular camouflage. This camouflage "moves" and ripples with the wearer's movements, thus allowing the wearer to further blend into their surroundings. Effectively, this collection with Stratasys' technology gives the wearer chameleon-like abilities.



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