



New York Fashion Week: Stratasys and threeASFOUR Unveil 3D Printed OSCILLATION Dress as Part of Quantum Vibrations Collection

Following landmark success of Stratasys 3D printed dresses in Fall/Winter collection, acclaimed designers, threeASFOUR, unveil most complex creation to date, assembled from 30 individual, highly precise multi-material and color 3D printed parts

[Video](#): Witness the power of 3D printed fashion in the threeASFOUR Quantum Vibrations Collection for Spring/Summer 2017

MINNEAPOLIS & REHOVOT, Israel--(BUSINESS WIRE)-- [Stratasys, Ltd.](#) (Nasdaq:SSYS), the 3D printing and additive manufacturing solutions company, today announced its ongoing collaboration with fashion leader [threeASFOUR](#) and New York-based designer [Travis Fitch](#) – debuting one of the designers’ most elaborate and intricate 3D printed dresses during New York Fashion Week. Entitled ‘Oscillation,’ the piece is comprised of 30 individual and highly precise multi-color, multi-material 3D printed parts created via assembly of 270 unique design files. The 3D printed dress serves as the centerpiece for threeASFOUR’s ‘Quantum Vibrations’ collection, unveiled for the first time on Tuesday September 13 at The Hole Gallery in New York City.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20160915005693/en/>

Drawing inspiration from source energies and primal, universal vibrations, the collection explores a series of graphic 2D patterns created in partnership with Travis Fitch. Leveraging [Stratasys’ color, multi-material 3D printing technology](#), threeASFOUR brought these vibrational forms to life in range of vibrantly colored 3D printed materials – representing the designers’ most intricate and complex creation to date.

“3D printing is transformative for designers aiming to take complex designs and realize them as a wearable garment. In the case of ‘Oscillation,’ Stratasys 3D printing enabled us to visualize 3D patterns as they truly are – complex, interwoven circles of energy, transforming in shape, color and flexibility as they radiate around the body,” explains Adi Gil, threeASFOUR. “The stellar parallax of the patterns, the way in which they transform as the viewing angle changes, is only possible through 3D printing.”

The 30 unique dress components were initially printed as flat, unwrapped patches that were later assembled on the body. With Stratasys’ color, multi-material 3D printing capabilities, including advanced precision and the ability to vary material properties, the designers were able to recreate even the most intricate vibrational patterns and geometries without



Stratasys 3D printed OSCILLATION dress designed by threeASFOUR in collaboration with Travis Fitch, produced using Stratasys' color, multi-material 3D printing technology. Photo credit: Ben Gabbe

compromising the flexibility and wearability integral to the design.

Having previously taken inspiration from natural, biological forms, threeASFOUR designers – Gabi Asfour, Angela Donhauser, and Adi Gil – continue to reference this theme in their latest works. 'Oscillation' draws from an interplay of energies evident both within the body and across the wider universe. As the third collaboration with Stratasys, 'Oscillation' follows the debut of the landmark 3D printed 'Pangolin' and 'Harmonograph' dresses in the designers' Fall/Winter collection at New York Fashion Week earlier this year. These first 3D printed pieces were key to threeASFOUR's successful 'Biomimicry' collection, spurring threeASFOUR to further test the extensive potential of Stratasys' 3D printing technology.

As Gil explains, the designers have now been able to push this technology even further to create the new 3D printed 'Oscillation' dress, produced not only in varying material thicknesses, but also in a spectrum of vivid color gradations: "The bio-inspired coloration, corresponding to fluctuations in shape and size, is only achievable with Stratasys PolyJet 3D printing technology. As the nodal patterns

thicken, scale, and undulate, the color gradations respond accordingly to accentuate the geometry. Using a vivid color range, we were able to construct a multi-dimensional textural surface; a screenshot of a dynamic, oscillating waveform."

To effectively produce the gradated coloration, each print was digitally split into nine layers of less than one millimeter in thickness. Individual layers were assigned a particular mixture of color and flexibility for the overall effect, with nearly 300 separate design files used to complete the landmark project.

"At Stratasys we are continually reflecting on aesthetic discoveries to help creative minds explore uncharted grounds in contemporary art and design that can be realized with our 3D printing technology," comments Naomi Kaempfer, Creative Director, Stratasys. "With 'Oscillation', we are inviting our audience to explore abstract universal ideas and thought changing concepts, and bringing these to life in three dimensions and vivid color. With forward-thinking projects such as this, threeASFOUR has set an example in design innovation, and has continued to transform the way people think about fashion."

For more than 25 years, [Stratasys Ltd.](https://www.stratasys.com) (**NASDAQ:SSYS**) has been a defining force and

dominant player in 3D printing and additive manufacturing – shaping the way things are made. Headquartered in Minneapolis, Minnesota and Rehovot, Israel, the company empowers customers across a broad range of vertical markets by enabling new paradigms for design and manufacturing. The company's solutions provide customers with unmatched design freedom and manufacturing flexibility – reducing time-to-market and lowering development costs, while improving designs and communications. Stratasys subsidiaries include MakerBot and Solidscape, and the Stratasys ecosystem includes 3D printers for prototyping and production; a wide range of 3D printing materials; parts on-demand via Stratasys Direct Manufacturing; strategic consulting and professional services; and the Thingiverse and GrabCAD communities with over 2 million 3D printable files for free designs. With more than 2,700 employees and 800 granted or pending additive manufacturing patents, Stratasys has received more than 30 technology and leadership awards. Visit us online at: www.stratasys.com or <http://blog.stratasys.com/>, and follow us on [LinkedIn](#).

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