



# Stratasys Sets New Standard in Voxel-Controlled 3D Printing with New GrabCAD Voxel Print – Forging a Breakthrough Approach to Research and Discovery

- *New software solution combines the power of multi-material 3D printing with true [voxel-level control](#) enabling users to create advanced structures, gradient color patterns, internal properties and textures to fit precise material requirements*
- *Solution unlocks new world of innovation for Research, Development, Biomedical Modeling, and Product Design*
- *See how Stratasys Technology is used by [LAIKA](#) and [Singapore University](#)*

MINNEAPOLIS & REHOVOT, Israel--(BUSINESS WIRE)-- [Stratasys](#) (Nasdaq:SSYS), a global leader in applied additive technology solutions, today introduced GrabCAD Voxel Print, a new software solution for its J750 3D printing solution which provides true voxel level control during the design and 3D printing process. Manipulating microscopic voxels, which are the building blocks of 3D printing, enables users to achieve 3D printed effects and properties not possible before. This, combined with the unique full color, multi-material 3D printing capability of the Stratasys J750 3D Printing Solution, opens up a new world of Digital Materials and advanced structures for a range of demanding customer applications, including Academic Research, Product Design, and Biomedical, as well as Art, Design & Animation.

This press release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20171114006047/en/>

See how [LAIKA](#) and [Singapore University](#) use Stratasys Technology  
View [“What is a Voxel?”](#) video.

“With GrabCAD Voxel Print, we are taking the power of our unique PolyJet™ full color, multi-material capability used by customers all over the world and multiplying exponentially the opportunities it affords.

This machine control utility is designed to enable our customers to manipulate thousands of materials at the voxel level to produce 3D models that fit precise material requirements unachievable any other way. It, in effect, turns the Stratasys J750 3D Printer into the world’s premium platform for experimentation, discovery and innovation,” said Gina Scala, Director of Marketing for Global Education, Stratasys. “Amazing new product ideas are often born in the research lab; that’s where GrabCAD Voxel Print can make a substantial impact on design and manufacturing.”

## Create Virtually Any Digital Material for a Range of Applications



Academic and medical research, as well as training organizations can use GrabCAD Voxel Print to create ultra-realistic anatomical models, such as this cancellous, mesh-like bone, for practicing surgical procedures such as cutting, reaming and drilling. (Photo: Business Wire)

Stratasys' unique Digital Materials are achieved by combining PolyJet™ photopolymers inside the 3D printer. The Stratasys J750 platform, equipped with GrabCAD Voxel Print, unlocks the ability to manipulate these 3D printed material concentrations, structures and color mapping at the voxel level. This allows users to produce entirely new Digital Materials for their specialized needs –

creating advanced structures, gradient color patterns, internal properties and textures never before possible with 3D printing, to meet precise material requirements for various applications.

“With 3D printing, LAIKA is successfully reviving the age-old technique of stop-motion animation. And this sets us off on an amazing journey. The Stratasys multi-material PolyJet™ technology empowers our animators with the precise, voxel-level control necessary to build the most intricate, creative characters we can imagine. In shot-by-shot, custom animation, this level of detail is critical to bring these films to life. That's something LAIKA just couldn't achieve with other technology,” explained Brian McLean, Head of Rapid Prototyping at LAIKA.

Users can use their own model layer slicer tool to assign properties at the voxel level, slice by slice, creating the ability to go beyond boundary representation to volumetric modeling. Stratasys is therefore enabling the user to design and fabricate a part from the inside out. GrabCAD Voxel Print generates a GrabCAD Voxel File (GCVF) that can be directly loaded to GrabCAD and fabricated on the Stratasys J750 3D Printer.

“GrabCAD Voxel Print is a game-changing production technology. For us it's driving inquiry into new design automation approaches that span and integrate architectural, industrial and engineering design,” said Martin Dunn, Associate Provost for Research and Co-Director, Digital Manufacturing and Design (DMandD) Center, Singapore University of Technology and Design (SUTD). “This is leading to new ways to conceive and create products that blur the traditional line between material and structure and traditional boundaries between the digital and physical world.”

GrabCAD Voxel Print is immediately available for use with the Stratasys J750 full color,

multi-material 3D Printer and GrabCAD Print.

Stratasys (NASDAQ: SSYS) is a global leader in applied additive technology solutions for industries including Aerospace, Automotive, Healthcare, Consumer Products and Education. For nearly 30 years, a deep and ongoing focus on customers' business requirements has fueled purposeful innovations—1,200 granted and pending additive technology patents to date—that create new value across product lifecycle processes, from design prototypes to manufacturing tools and final production parts. The Stratasys 3D printing ecosystem of solutions and expertise—advanced materials; software with voxel level control; precise, repeatable and reliable FDM and PolyJet 3D printers; application-based expert services; on-demand parts and industry-defining partnerships—works to ensure seamless integration into each customer's evolving workflow. Fulfilling the real-world potential of additive, Stratasys delivers breakthrough industry-specific applications that accelerate business processes, optimize value chains and drive business performance improvements for thousands of future-ready leaders around the world.

Corporate Headquarters: Minneapolis, Minnesota and Rehovot, Israel.

Online at: [www.stratasys.com](http://www.stratasys.com), <http://blog.stratasys.com> and [LinkedIn](#).

#### **Note Regarding Forward-Looking Statements**

The statements in this press release relating to Stratasys' beliefs regarding the benefits consumers will experience from GrabCAD Voxel Print are forward-looking statements reflecting management's current expectations and beliefs. These forward-looking statements are based on current information that is, by its nature, subject to rapid and even abrupt change. Due to risks and uncertainties associated with Stratasys' business, actual results could differ materially from those projected or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to: the risk that consumers will not perceive the benefits of GrabCAD Voxel Print to be the same as Stratasys does; and other risk factors set forth under the caption "Risk Factors" in Stratasys' most recent Annual Report on Form 20-F, filed with the Securities and Exchange Commission (SEC) on March 9, 2017. Stratasys is under no obligation (and expressly disclaims any obligation) to update or alter its forward-looking statements, whether as a result of new information, future events or otherwise, except as otherwise required by the rules and regulations of the SEC.

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