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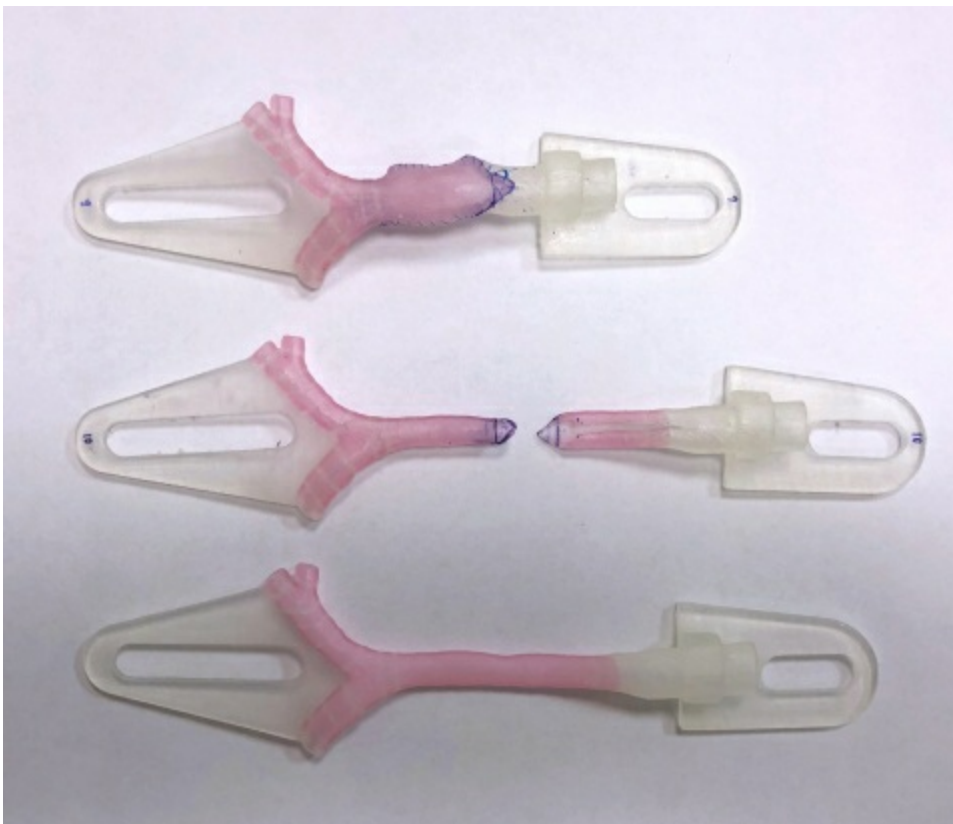


Medical Customers Across the Globe Adopt Stratasys J750 Digital Anatomy 3D Printer

3D-printed anatomical models replicate biomechanics of human anatomy to help improve training, transform surgical planning and bring new medical innovations to market faster

EDEN PRAIRIE, Minn. & REHOVOT, Israel--(BUSINESS WIRE)-- A year after the launch of its J750™ [Digital Anatomy™ 3D printer](#), [Stratasys Ltd.](#) (NASDAQ: SSYS) today announced it has successfully sold and installed the system at healthcare institutions and medical service providers in major markets across the globe, including the United States, China, Italy, Spain, and Australia. [Seattle Children's Hospital](#), VA Health Care System, [Nicklaus Children's Hospital](#) in Miami, [Medilife](#) and [BIO3DModel](#) in Italy, and [Tknika](#) and [AIJU](#) in Spain all recently turned to the innovative new system to help improve patient care and accelerate medical innovation.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20201102005967/en/>



The J750 Digital Anatomy 3D printer produces anatomical models that mimic the actual feel, responsiveness, and biomechanics of human anatomy. Models can be punctured, sutured, cut, and physically manipulated like actual human tissue. This capability minimizes the use of animals and cadavers for clinical trials and surgical training. Hospitals, healthcare institutions and medical schools can use these lifelike 3D models to improve

3D-printed models showing virtual surgical planning for a slide tracheoplasty

procedure. Courtesy Kaalan Johnson, M.D., Seattle Children's Hospital.
(Photo: Business Wire)

clinical evaluation for
a wide range of
pathologies, as well

as bring new medical devices to market faster.

Seattle Children's Hospital purchased a J750 Digital Anatomy 3D printer early this year and installed it in its new 3D Printing Lab. A major motivation for getting the printer was the ability to create very soft models in-house to duplicate things like airways, livers, and hearts. "The earliest prints using TissueMatrix material were instrumental for understanding the optimal fit for a custom tracheostomy tube, something that would have been impossible with the best materials that we had access to only six months ago," said Seth Friedman, Ph.D, Manager of Innovation Imaging and Simulation Modeling in the Improvement and Innovation Department. "I believe that by making models in parallel to a patient's care journey we can truly make a difference. Now integrated into a systemic program called Custom Care, we have little doubt this new technology will help us provide the best care possible to our patients and families."

Nicklaus Children's Hospital upgraded to the new J750 Digital Anatomy 3D printer from an existing Eden 260 in the Cardiovascular Surgery Program. The upgrade was a collaboration between the NCHS Personalized Medicine Initiative and the Cardiovascular Surgery Advanced Research Projects Laboratory and was made possible by the support of the Bailey Foundation and donors to NCHS.

Dr. Redmond Burke, chief of Cardiovascular Surgery and co-director of the Heart Program, said it's now a critical part of surgical planning. "It's very valuable to be able to actually cut open a model to get a very clear vision of what we'll see in the operating room," he said. "We believe this is a significant advance that will allow us to reduce the trauma of patients undergoing complex heart surgery." He said the new 3D printer also opens up completely new avenues in teaching and patient care.

In Spain, two technology institutions have invested in the Digital Anatomy 3D printer to pioneer their medical service offering. Both cite the unrivalled ultra-realism and tactile nature of the models as a significant competitive advantage.

Nacho Sandoval, Additive Manufacturing Lead at AIJU, said, "Previously, we could not produce models replicating the organic materials frequently requested by the medical sector, let alone realistically simulating the behaviors of human tissue. What is also remarkable is that the precision of the Digital Anatomy printer offers higher resolutions than those obtained with a CT or MRI, which are usually above half a millimeter. We're already seeing vast interest from a wide range of medical practitioners for these types of models in real-world applications."

Gorka Baqueriza, Additive Manufacturing Project Manager, Tknika, added: "We see this technology having a significant impact in several areas of healthcare – from medical training to pre-surgery planning to patient care. The level of realism that can be achieved for such a wide range of anatomical models and pathologies is incredible."

In Italy, President of BIO3DModel, Eng. Roberto Rizzo, said he has witnessed particular interest in the Digital Anatomy 3D printer for surgical training. "This technology enables a drastic reduction in time training surgeons, in particular the ability to investigate for any

specific pathological conditions prior to the actual surgery,” he stated. “For example, until now it was not possible to produce hollow vascular systems down to 1mm wall thickness and diameter. This incredible detail could be the difference between life or death for a patient.”

Emanuele D’Angeli, General Manager, Medilife, adds: “The models produced on the Digital Anatomy 3D printer offer the same soft touch and variable density of actual human tissues and organs, which today is impossible to achieve with any other existing 3D printing technology. We are currently testing several applications, including the creation of an artificial limb. The aim is to reproduce the natural external appearance of the limb in terms of texture and color shade, while also replicating the lifelike physical feel that we experience with human touch.”

More information on the J750 Digital Anatomy 3D printer is available [online](#). In addition, Dr. Burke shared his experience with the new 3D printer on [YouTube](#).

Stratasys is a global leader in additive manufacturing or 3D printing technology and is the manufacturer of FDM[®], PolyJet[™], and stereolithography 3D printers. The company’s technologies are used to create prototypes, manufacturing tools, and production parts for industries including aerospace, automotive, healthcare, consumer products and education. For more than 30 years, Stratasys products have helped manufacturers reduce product-development time, cost, and time-to-market, as well as reduce or eliminate tooling costs and improve product quality. The Stratasys 3D printing ecosystem of solutions and expertise includes 3D printers, materials, software, expert services, and on-demand parts production. Online at: www.stratasys.com

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