

# J750 Digital Anatomy Solutions

## Bringing Medical Models to Life



### Moving From Visualization To Simulation

- Provide physicians the opportunity to learn and develop skills prior to entering the operating room
- Create a life-like vascular environment for surgeon training and procedural planning
- Train anywhere in a risk-free surgical setting on a range of pathologies each and every time
- Reduce the costs and inconveniences of cadaver and animal labs

### Digital Anatomy Applications: Vascular

Stratasys® collaborated with leading medical device companies, hospitals, and research institutions to replicate the look and feel of actual vessels to bring you validated vascular applications.

Each application is functional, realistic and accurate, mimicking the look and feel of human anatomy — all made possible by our new digital materials unique to the J750™ Digital Anatomy™ printer.

#### Accuracy

- Create fine vascular structures down to 1 mm internal diameter and 1.5 mm wall thickness
- Mimic vessel compliance by varying the wall thickness of individual vessels
- Replicate healthy and diseased tissue with the touch of a button and the printer does the rest — vessel compliance is automatically varied accordingly

#### Functional

- Simulate clinical procedures for physician training and surgical planning
  - Insert guide wires and catheters
  - Deploy devices (TAVR, AAA graft, LAAC)
  - Simulate actual blood flow with active flow loop
  - View calcifications under fluoroscopy

#### Realistic

- Clinically realistic haptic feedback to device insertion and deployment

For more  
information, contact  
[medical@stratasys.com](mailto:medical@stratasys.com).





Stratasys models allow us to re-create human anatomy reflective of the nuances of different tissue consistencies from blood vessels and soft tissue organs to arteries, veins and bone.

These models give us the best opportunity to re-create human physiological conditions on a structural basis to simulate clinical situations and study new devices to establish their effectiveness before introducing them into patients.”

Adnan Siddiqui, MD, PhD,  
**Chief Medical Officer, Jacobs Institute**  
**Director of Neuroendovascular Fellowship**  
**Kaleida Health, University at Buffalo, Department of Neurosurgery**

[stratasys.com](http://stratasys.com)  
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alphacam GmbH  
 Erlenwiesen 16  
 D-73614 Schorndorf  
 Tel.: +49 (0) 71 81 92 22 - 0  
 info@alphacam.de

alphacam austria GmbH  
 Handelskai 92, Gate1 / 2. OG / Top A  
 A-1200 Wien  
 Tel.: +43 (0) 1 36 19 600 - 0  
 info@alphacam.at

alphacam swiss GmbH  
 Zürcherstrasse 14  
 CH-8400 Winterthur  
 Tel.: +41 (0) 52 - 262 07 - 50  
 info@alphacam.ch



alphacam.de  
 .at  
 .ch