

Stratasys J5 MediJet

The all-in-one medical printer



Multi-material, multicolor, sterilizable & biocompatible capabilities

MediJet is setting a new standard for medical modeling. With multiple materials and multicolor capabilities, academic medical centers, hospitals and medical device companies can create brilliantly vivid anatomical models, and drilling and cutting guides* that are sterilizable and biocompatible.

* with approved 3rd party 510k cleared segmentation software

Print more models with less handling — all within a small footprint

Service multiple departments and create more medical models with less handling — all within a small footprint. Print pre-surgical planning models, training and education models, surgical guides and medical device development models with a certified system — all on one platform. Plus, with a lower up-front investment and smaller footprint, MediJet™ is economical and compact enough for small lab spaces.

Simplify your workflow with GrabCAD Print™

Design and increase production of highly accurate and detailed medical models with ease. This software automatically corrects files and reduces print time with automatic tray arrangement. And a new feature alerts the user if there has been cross contamination with a biocompatible material.

Improve point-of-care & patient satisfaction

The use of patient-specific 3D printed medical models for pre-surgical planning improves patient outcomes by reducing complications, decreasing operation time and length of hospital stays. Plus, patient understanding, consent and satisfaction have been shown to improve with the use of 3D medical models.^{1, 2, 3}

Enhance training & education programs

Synthetic models, animals and cadavers do not always accurately represent the pathology you are looking to study. Scale up your product demonstrations when training field staff and physicians on your new medical device by providing models that replicate the disease state your device is intended to treat. If you're a teaching hospital, print the exact pathology on-demand and train anywhere without cadaver storage requirements or ethical concerns associated with animal models.

Material package	Hot-swap capable, internal material bay
Build area	Up to 1,174 cm ²
Build mode	High Quality Speed (HQS) – 18.75 µm
System size and weight	651 x 661 x 1511mm (25.63 x 26.02 x 59.49 in.); 228 kg (503 lbs.)
Software	GrabCAD Print
Accuracy	Deviation from STL dimensions with rigid materials, based on size: under 100 mm – ±150µ; above 100 mm – ±0.15% of part length.** ** true for 67% (1 sigma) models printed for future information can be found in the spec sheet.

Applications

- Pre-surgical planning models
- Training and education models
- Surgical guides and tooling
- Medical device development models

References:

1. Yang, T., Tan, T., Yang, J., Pan, J., Hu, C., Li, J., & Zou, Y. (2018). The impact of using three-dimensional printed liver models for patient education. The Journal of international medical research, 46(4), 1570–1578. <https://doi.org/10.1177/0300060518755267>
2. Diment, L. E., Thompson, M. S., & Bergmann, J. (2017). Clinical efficacy and effectiveness of 3D printing: a systematic review. BMJ open, 7(12), e016891. <https://doi.org/10.1136/bmjopen-2017-016891>
3. Kim, P. S., Choi, C. H., Han, I. H., Lee, J. H., Choi, H. J., & Lee, J. I. (2019). Obtaining Informed Consent Using Patient Specific 3D Printing Cerebral Aneurysm Model. Journal of Korean Neurosurgical Society, 62(4), 398–404. <https://doi.org/10.3340/jkns.2019.0092>



Brilliantly vivid, multi-material and multicolor capabilities

Cost Savings



30%
lower cost
per part
compared to
outsourcing

Production



30%
faster
print time
than comparable
printing solutions***

*** Compared to six types of anatomical models printed with Formlabs Form3, Project 3600, Project 6000, and Mimaki 3DUJ-553