

# 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.<sup>1, 2, 3</sup>

### 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.

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

## Applications

- Pre-surgical planning models
- Surgical guides and tooling
- Training and education models
- 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



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