Stratasys
J3 DentaJet

Quality made compact

Tailored for small to medium-sized labs, the J3 DentaJet can produce mixed trays of three materials, including a large quantity of implant models, surgical guides, and gingiva masks, all on the same tray and with unmatched accuracy.

stratasys

Stratasys Dental
Level up manufacturing capacity

Leverage Stratasys' smart digital workflow, multi-material unattended printing, and minimal post-processing to increase output while producing higher-quality dental parts. PolyJet 3D printing technology delivers key advantages for a wide set of dental applications, such as extreme accuracy for implantology cases, best in class aesthetics for removables, and flexibility to support your production needs with high volume, mixed-tray printing.

J3 DentaJet

The Stratasys J3 DentaJet™ professional-grade, multi-material dental printer is designed to address the evolving production needs of dental labs.

- **Print in multiple materials simultaneously**
  Produce of a wide variety of parts in the same job, maximizing productivity and throughput.

- **Level up production**
  Scale production and deliver on a wide array of cases with speed and efficiency maintaining high accuracy and quality.

- **Achieve precision accuracy**
  High resolution droplet printing and full curing during the print process eliminates post processing distortions for unrivaled accuracy of parts.

- **Safer working Environment**
  The closed cartridge system eliminates uncured resin handling. Operators simply load one tray and walk away.

Best in class solution for each application

Implantology

Simplify the complexity of implantology case production. Print highly accurate opaque and rigid implant models, transparent surgical guides, and soft gingiva masks— all on one biocompatible tray — in a single, unattended print job.

Removables

Use mixed-tray printing to cut days from your delivery times, as well as reducing your costs. Predictable, repeatable results give you the nimble foundation you need to grow your lab.

Crown and Bridge

Manufacture large volume of higher-quality crown and bridge models with fewer remakes. Leverage realistic color models to improve color matching of restorations with increased accuracy.

Orthodontics

Increase your lab capacity offering 3D printed indirect bonding trays or producing clear aligners from 3D printed arches in high-speed mode.

Powered by PolyJet™

PolyJet, a technology pioneered by Stratasys, is ideal for producing multi-material mixed trays and applications requiring high accuracy as well as full color realism. The J3 DentaJet was ultimately designed to eliminate the need for multiple 3D printers each intended for specific applications.

How it works

PolyJet printers create models through a similar process to that used by inkjet printers, but instead of jetting ink, the printers jet layers of curable liquid photopolymer (resin) onto a build tray.

The printer is loaded with several resins at the same time, each intended for a different application with diverse material properties. The print heads work in tandem to print different dental parts simultaneously.

Each layer of curable liquid photopolymer is hardened with UV light before the next layer is laid. Layer thickness can be as thin as 0.019 mm, allowing the technology to produce complex geometries and intricate details that result in highly aesthetic, extremely accurate applications like crown and bridge models, implant models, and surgical guides. PolyJet technology can also print thicker layers, and by doing so, increase throughput for applications requiring less accuracy.

Driving efficiency

The sizable print tray enables high-volume output in large batches. Unattended printing allows for a much higher equipment and personnel utilization without costly automation add-ons. The PolyJet printers are unique in that the operator does not come in contact with uncured resin, ensuring a safer and cleaner working environment.
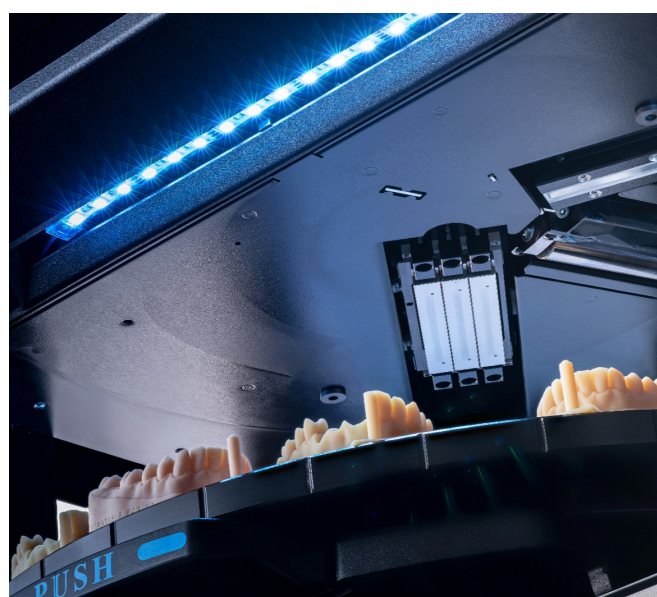
+ A Full 3D printing workflow.

Streamline your 3D print workflow for all Stratasys printers with GrabCAD Print™ software platform and integrations to leading Dental CAD platforms such as 3Shape and ExoCAD.

- **Get started fast**
  Easy-to-use and minimal training is required to master the.

- **Manage the fleet**
  Organize 3Dprinting jobs on all your Stratasys printers (PolyJet and P3™)

- **Arrange trays automatically**
  Simplify pre-production with automatic support, part orientation, and optimized capacity.

- **Analyse performance**
  Monitor material usage and utilization of your printer with in-depth reports and dashboards.

- **Print from anywhere**
  Schedule and monitor prints remotely

See the specs.

J5 DentaJet Printer and Material Specifications

Model Materials	Biocompatible materials: ▪ Biocompatible Clear MED610™ ▪ VeroGlaze™ (MED620) ▪ Flexible clear biocompatible material	Vibrant colors including: ▪ VeroMagentaV™ (RGD852) ▪ VeroDent™ PureWhite (DEN847)
Digital Model Materials	Unlimited number of composite materials	
Support Materials	SUP711™ (Water Jet removable)	
Build Tray	1 40 x 200 x 190mm (5.51 x 7.87 x 7.48 in.) Up to 1.174 cm 2	
Layer Thickness	Horizontal build layers down to 18 microns (0.0007 in.)	
Network Connectivity	LAN – TCP/IP	
System Size and Weight	651 x 661 x 774mm (25.63 x 26.02 x 30.48 in.); 98 kg (216 lbs.)	
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30 – 70% (non-condensing)	
Power Requirements	100 – 240 VAC, 50 – 60 HZ, 10A, 1 phase	
Regulatory Compliance	CE, FCC, EAC	
Software	GrabCAD Print	
Build Modes	High Quality Speed (HQS) – 18.75µm High Quality High Speed (HQHS) – 20.625µm Long Print Mode – 18.75µm (allowing cartridge Hot Swap for selected material)	
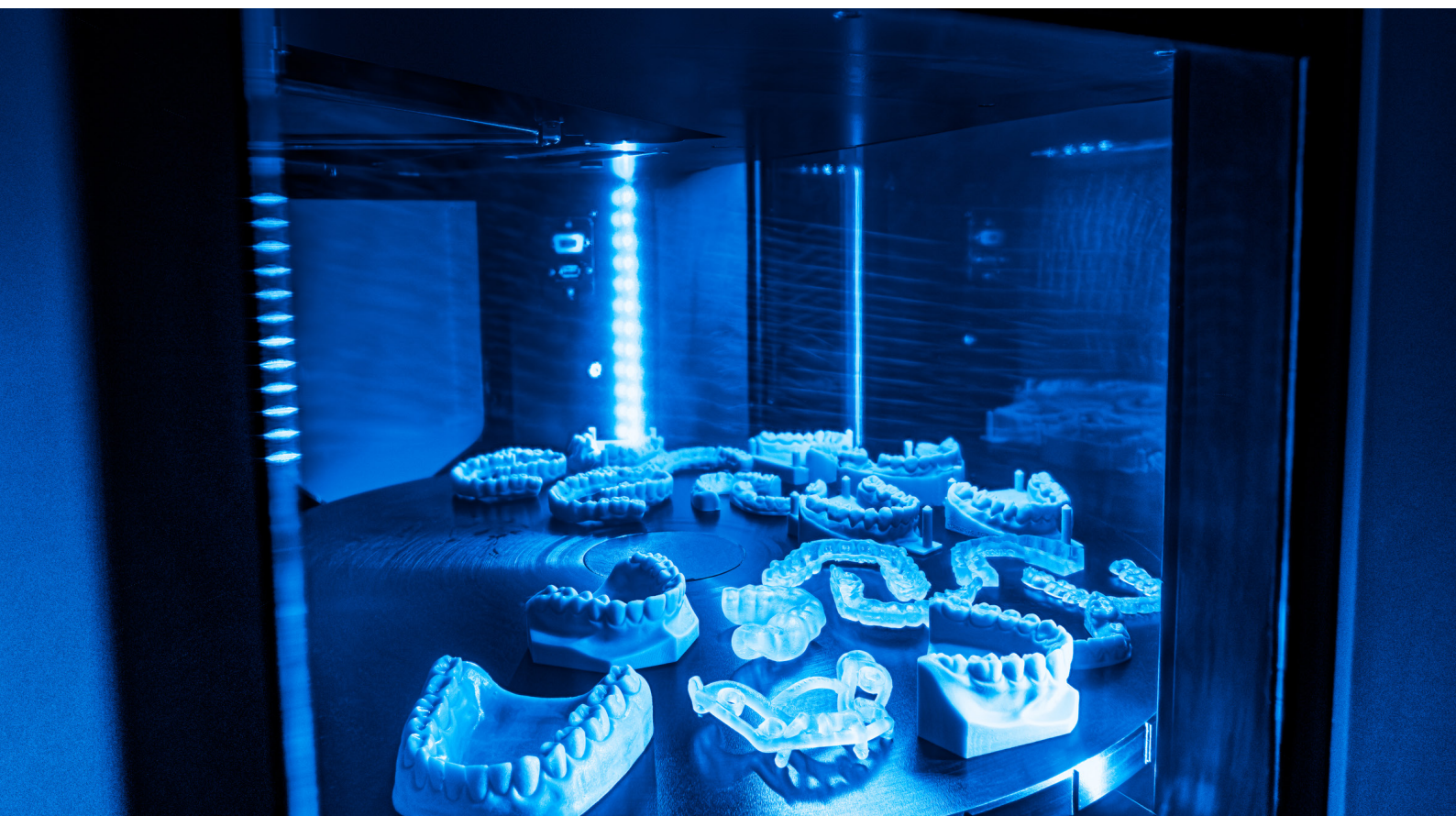
Master Dentistry challenges

Learn more about the J3 DentaJet 3D printer at sys-uk.com.

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