DentaJet® Series

Level Up Dental Production with Color

Brochure

stratasys

Stratasys PolyJet printers. 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, realistic color models, and flexibility to support your production needs with high volume, mixed-tray printing.

The DentaJet Series

The Stratasys DentaJet™ professional-grade, multi-material dental printers are 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.

- **Harness the power of color**

  Achieve the highest degree of realism with a full-color, monolithic 3D printing process.

- **Level up production**

  High-volume unattended operation saves time and requires less manual post-processing.

- **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

Choose aesthetics, precision, and customization in a monolithic polychromatic denture with predictable and repeatable results that reduce chair time. Expand your denture offering with TrueDent, FDA cleared (Class II) resin matching a varied patient demographic on one tray.

Crown and Bridge

Produce a large volume of higher-quality crown and bridge models with fewer remakes. Leverage realistic color models using 3Shape's color workflow 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 DentaJet series was ultimately designed to eliminate the need for multiple 3D printers each intended for specific applications.

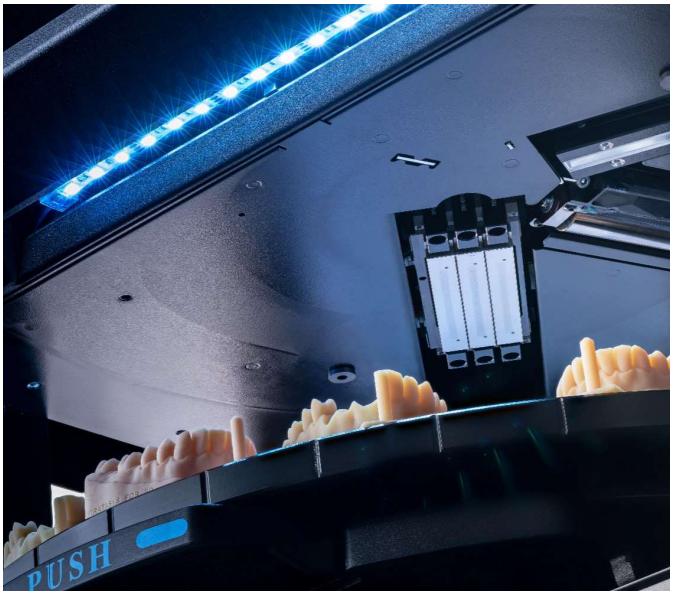
How it works

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.

To print in color, the printer is loaded with base color resins. Each print head jets the correct color in the desired location on the part creating the desired shade or hue. This allows the printer to create parts with full color gradients and smooth color transitions ideal for color models, monolithic dentures, or temporaries.



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.


stratasys J3
DentaJet™
stratasys J5
DentaJet™
PUSH
PUSH

Get to know the DentaJet series.

The DentaJet series is designed to reduce costs, maximize efficiency, and create more dental parts with less handling — all with the precision, accuracy, and realism you can expect from Stratasys.

J3 DentaJet

Quality made compact.

The J3 DentaJet is our entry-level PolyJet printer for small to medium-sized labs. It 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.

J5 DentaJet

Versatile production solution with color.

The J5 DentaJet delivers unmatched quality, reliability, and productivity — with a small footprint. Medium to large-sized labs can rely on the J5 for all of the same models as the J3, with mixed trays of 5 materials and realistic, full-color dental models and high-aesthetic dentures and temporaries.

	J3 DentaJet	J5 DentaJet
Applications	**Dental tooling:** • Models: C&B, implant, orthodontic, removable, maxillofacial • Surgical guides • Gingiva masks • Indirect bonding (IDB) trays • RPD frameworks • Custom impression trays • Try-ins	**Dental tooling (high-volume):** • Models: C&B, implant, orthodontic, removable, maxillofacial, color models using 3shape workflow • Surgical guides • RPD frameworks • Try-ins • Gingiva masks • Indirect bonding (IDB) trays • Custom impression trays • TrueDent Dental Appliances
Model Materials	• Biocompatible Clear MED610™ • Biocompatible VeroGlaze™ MED620™ • Flexible clear biocompatible material MED625FLX™ • Vero Vivid Magenta RGD852™ • VeroDent PureWhite DEN847™ • SUP711™	• Biocompatible Clear MED610™ • Biocompatible VeroGlaze™ MED620™ • Flexible Clear Biocompatible MED625FLX™ • VeroDent PureWhite DEN847™ • SUP711™ • Vero Vivid Colors Cyan/Magenta/Yellow RGD845/852/838™ • TrueDent™ Cyan/Magenta/Yellow/White/Clear • TrueDent™ Support
Max materials	3	5
Software	GrabCAD Print™	GrabCAD Print™
Cartridge capacity	1.1 kg	1.1 kg
Tray size and area	Round Print Tray with up to 1,174 cm^2	Round Print Tray with up to 1,174 cm^2
System size & weight	651 x 661 x 774 mm (25.63 x 26.02 x 30.48 in.); 98 kg (216 lbs.)	651 x 661 x 1511mm (25.63 x 26.02 x 59.49 in.); 228 kg (503 lbs.)
Technology	PolyJet	PolyJet

Master Dentistry Challenges with Stratasys

For more than 30 years, Stratasys has been a global leader in 3D printing, serving countless industries. With a long track record of proven technology and ongoing innovation, Stratasys Dental brings the best of 3D printing to in-demand dental applications—propelling our customers to the forefront of digital dentistry.

With Stratasys Dental as a strategic partner, you focus on streamlining operations, optimizing resources, and growing your business.

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