Stratasys 3D Printers Designed For a 3D World

Today, wherever speed, efficiency and accuracy matter, you'll find a Stratasys 3D Printer at work. From product design studios, orthodontic labs and engineering departments to manufacturing plants, schools and dental labs – the next industrial revolution has clearly arrived. And Stratasys is here to lead it.

Stratasys is at the forefront of this game-changing revolution – creating an unprecedented, amazingly powerful resource for the world of design, engineering and manufacturing. The resulting systems offer a variety of professional 3D printing solutions – from desktop 3D printers for idea development to medium-sized 3D printers for functional prototyping, all the way up to large-scale production systems for direct digital manufacturing. Simply put: the universe of creation will never be the same.

Learn more at Stratasys.com.

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Stratasys FOR A 3D WORLD™

The Design Series

The Power of Prototyping. Maximized.

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Bring your designs to life without delay.

Whether you're looking for unmatched strength or exceptionally fine detail, the Stratasys Design Series has a prototyping solution to fit your needs. These 3D printers will dramatically tighten design cycles, improving communication and collaboration and increasing speed to market with fewer costly mistakes – making it possible to insource all phases of the prototyping process. Before you know it, you'll be asking yourself, "Why haven't we been doing this all along?"

Not many investments offer returns this good. It's true: an outsourced prototype can cost as much as three to five times more than one that's printed in-house. Add to that the time you can save in product development cycles and reduced manufacturing errors and the ROI of printing in-house with Stratasys 3D Printers is clearly a good business decision – even if you don't outsource that often.

Multiple 3D printers. One ideal solution for any application.

The Stratasys Design Series offers two distinct categories of prototyping solutions, depending on your exact needs: **Precision Prototyping Solutions** and **Performance Prototyping Solutions**. Whether you're looking for the best in product realism or unsurpassed durability to withstand rigorous testing, the Design Series has a 3D printer that's right for you.

About our technologies

Our Objet® 3D Printers employ patented PolyJet® technology, which works by jetting state-of-the-art photopolymer materials in ultra-thin layers onto a build tray – layer by layer – until the high-quality prototype is completed. The intuitive Objet Studio™ software manages the process. And, with the multi-material jetting process found in the Objet Connex family, you can combine different material properties in the same prototype, in a single print – creating the most realistic 3D models possible.

Our proven Fused Deposition Modeling (FDM Technology™) is the foundation for the Dimension® 3D Printers. Two materials (one for models, one for support) are heated in an extrusion head and deposited in thin layers on a modeling base. The model is precisely built, layer upon layer. When the model is complete, the support material is removed, leaving an accurate, durable, functional 3D prototype made of engineering-grade thermoplastic.

Why consider Stratasys Design Series 3D Printers?

They're powered by you and industry-leading technologies.

Both Stratasys technologies work intuitively to print functional prototypes. The advanced, powerful, stable platforms of PolyJet and FDM® both work seamlessly with 3D CAD software, bringing your designs to life with the push of a button. The multi-material jetting process found in Objet Connex 3D Printers enables the simultaneous use of multiple materials on the same prototype within the same print job, while our patented software manages the process.

Good ideas sell easier.

Stratasys Design Series 3D Printers improve communication and collaboration because they produce amazingly accurate models of your ideas that you can share with your team and your clients for a faster, more confident buy-in.

Keeping valuable resources in-house is an advantage.

You'll be amazed when you see how you can produce final product realism *in-house*. Stratasys Design Series 3D Printers offer not only unparalleled speed, they make it easy for you to print with the widest range of material properties.

Our 3D printers specialize in using a variety of materials.

The materials you can print with the Stratasys Design Series range from one to more than 100 materials, including specialized materials for dental and medical applications. Objet 3D Printers even let you to print rigid, flexible and soft-touch materials simultaneously in the same part!

Big ideas that fit into your creative space.

We've redefined desktop printing and made it 3D. With Stratasys Design Series 3D Printers, you can print durable 3D prototypes when and where you need them, right in your office, right from your CAD files. All you do is click "print." And, if you need a larger build envelope and increased productivity, we have a solution that's right for that, too.

You dream in different shapes, sizes, materials and colors. *We* build in it.

Stratasys offers a variety of 3D printer options that can bring nearly any idea to life. Our Objet 3D Printers offer over 100 different materials. Plus, the Dimension 3D Printers enable you to print in nine colors of ABS*plus*™ materials, with a choice of soluble or breakaway support materials – all at a price that you can easily justify with immediate cost-savings.

How it works

With Design Series 3D Printers, proven PolyJet & FDM technologies make 3D printing as easy as 1-2-3.

[1] Prepare the file. Create your 3D prototype in 3D CAD software, then open Objet Studio™ or CatalystEX™ software, upload the STL file and click "print." Objet Studio or CatalystEX software converts your STL output into 3D model print paths – including support structures.

[2] Print your prototype. Both our PolyJet and FDM technologies make it possible to build your 3D prototype and its support material – layer by layer – from the bottom up on a removable modeling base.

[3] Remove supports. Take your printed prototype model out of the printer's build chamber and remove the break-away support structures or dissolve with tap water-based solution.

The Design Series

The Power of Prototyping. Maximized.

Precision Prototyping Solutions include Objet 3D Printers and set the industry standard for final product realism. Objet systems feature unparalleled speed as well as multi-material 3D printing, and systems from the Objet Connex family give you the capability to print multiple materials simultaneously and the widest range of material properties on the market.

Objet Desktop 3D Printers

Who knew such fine detail could come in such small packages? With the Objet24™, Objet30 Pro™ and Objet30™ OrthoDesk from the Stratasys Design Series, designers and engineers can build true-to-life models and prototypes featuring ultra-precision details straight from the office desk.

Objet24
Thin is in! The Objet24 not only puts the power of prototyping right on your desktop, it prints in layers thinner than a human hair for the ultimate in desktop accuracy.

Objet30 Pro
With a larger tray size than the Objet24 and the ability to print up to seven different materials – including transparent and high-temperature resistant materials – this is the world's most versatile desktop 3D printer.

Objet30 OrthoDesk
Objet30 OrthoDesk is specially designed for small to medium-sized labs and clinics to digitize their workflow. It is compact, affordable and easy to use. With industry-leading PolyJet 3D printing technology, it offers all of the advantages of a 3D printer, in a package that is just right for smaller orthodontic labs. It allows the fabrication of stone models, orthodontic appliances, delivery and positioning trays, models for clear aligners and retainers – right on the desktop.

Objet Eden 3D Printers

Objet Eden 3D Printers offer unprecedented return on investment for a wide range of professional rapid prototyping applications. Based on Stratasys' advanced PolyJet technology, Objet Eden systems print ultrafine 16-micron layers for exceptionally fine details, complex geometries and walls as thin as 0.6mm (.02 in).

Dental Applications

Dental labs around the world use Objet Eden 3D Printers to digitize their workflow to gain significantly faster delivery times and extended production capacity. With Objet Eden 3D Printers, dental and orthodontic labs fabricate accurate stone models, integrate with intraoral 3D dental scanners, and produce true-to-life veneer prototypes and delivery trays. Plus, they can deliver surgical guides and orthodontic appliances, and produce series of clear aligners and retainers quickly and precisely from digital files.

Objet Eden260V™
When you're ready to move to mid-sized, high-quality precision prototyping, this is the right solution for you. Print in 17 materials, including specialized materials for dental and medical applications, and with ultra-thin layers. All with a small footprint of 260 × 260 × 200 mm (10.2 x 10.2 x 7.9 in) that fits easily in any office.

Objet Eden350V™
Best in class for production, flexibility and model quality, the Objet Eden350V offers all the advantages of Eden 3D Printers with a larger build envelope and increased productivity.

Objet Eden500V™
With a 500 x 400 x 200mm (19.7 x 15.75 x 7.87 in) build size, this is the ideal solution for large-sized model requirements or when high productivity is vital – including all the advantages of Eden 3D Printers, with the most robustness and reliability.

Objet Connex 3D Printers

With Objet Connex 3D Printers, you can simulate the precise look, feel and function of sophisticated finished products. With the widest range of material properties in the world, Objet Connex 3D Printers are the only solutions that print multiple materials simultaneously – so you can turn the most creative ideas into realistic models – fast.

Objet260 Connex™
The Objet260 Connex is your entrée to the ultimate in precision prototyping. With 16-micron accuracy and the power to print a combination of over 100 digital materials, this 3D printer is ideal for consumer electronics and goods, research institutes and medical equipment.

Objet350 Connex
The Objet350 Connex enables designers and engineers to rapidly build prototypes that simulate their intended end-products. With an intermediate build tray size of 350 x 350 x 200mm (13.8 x 13.8 x 7.9 in) and the multi-material jetting technology, the Objet350 Connex allows users to simulate a wide array of properties.

Objet500 Connex
With one of the biggest build envelopes offered by the Connex platform (500 x 400 x 200 mm or 19.7 x 15.7 x 7.9 in) and the virtually endless possibilities of over 100 different materials, the Objet500 Connex can handle just about all levels of productivity.

Objet1000™
The Objet1000 is the only solution with proven Connex technology for rapidly creating large industrial sized models and 1:1 scale prototypes. Featuring an ultra-large build tray size of 1000 x 800 x 500mm (39.3 x 31.4 x 19.6 in) the Objet1000 is capable of handling even the highest levels of productivity, making it an ideal option for automotive, aerospace, consumer and household product designers.

Performance Prototyping Solutions provide prototypes strong enough to withstand even the most rigorous testing. This category includes Dimension 3D Printers, which bring you the best of both worlds: ABS*plus* strength and the finest feature details using FDM Technology. Add to that a range of different color possibilities, as well as easy-to-remove support materials, and you'll have a system that'll exceed even your highest expectations for 3D printing potential.

Dimension SST 1200es / BST 1200es
If FDM Technology is what you've been searching for, look no further…these machines will fulfill your most ambitious prototyping needs. And, with nine colors of ABS*plus* materials and a 254 x 254 x 305 mm (10 x 10 x 12 in) build envelope, the Dimension SST 1200es / BST 1200es lets your design creativity run free.

Dimension Elite
Demanding more detail? The Stratasys Dimension Elite produces prototypes that are ABS*plus* strong, with more detail than the Dimension SST 1200es / BST 1200es. FDM Technology and the thinnest layers of the Dimension family make it possible.