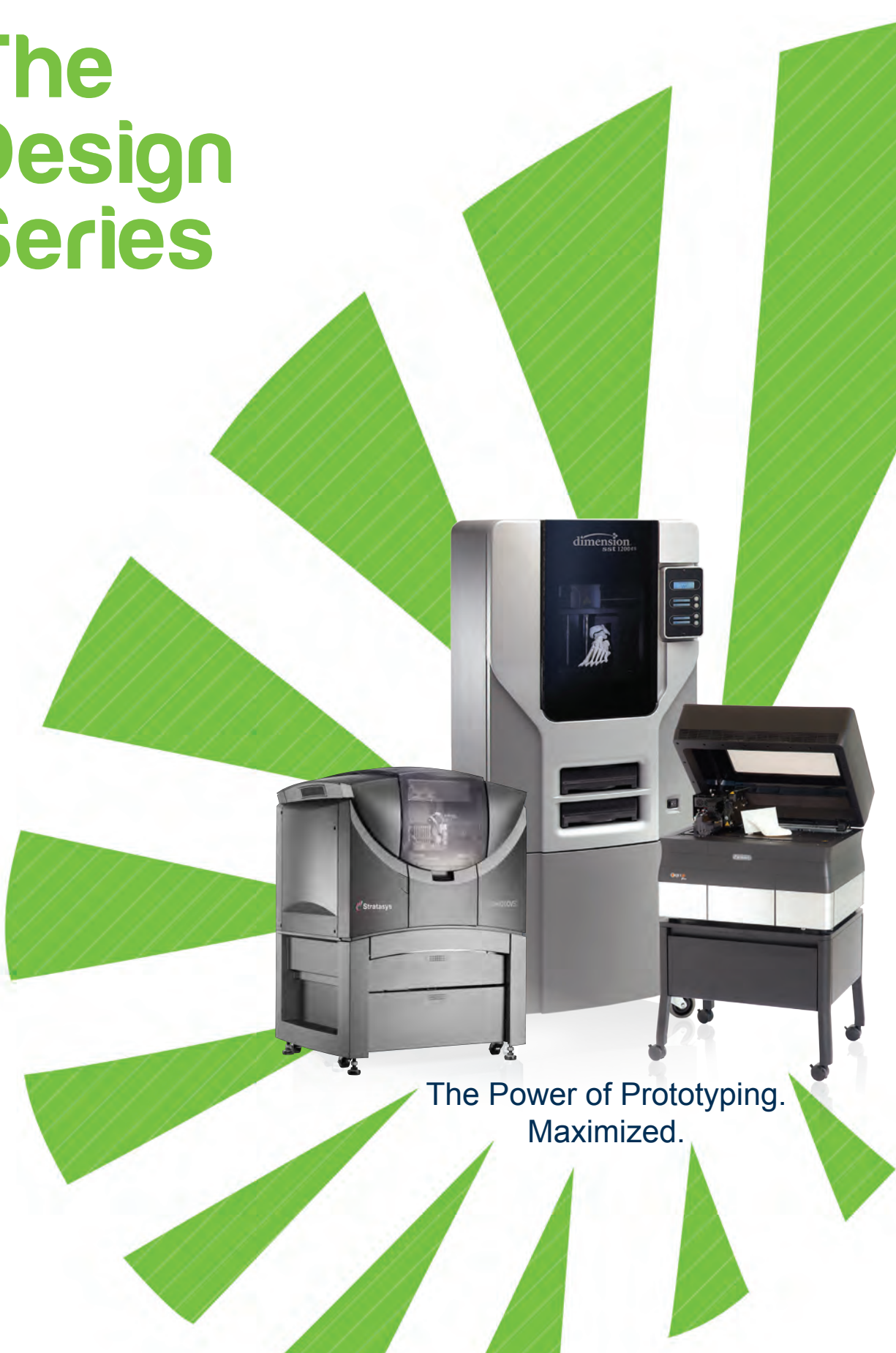# Stratasys
FOR A 3D WORLD™

The Design Series

The Power of Prototyping.
Maximized.

The Design Series

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 five times more than one that's printed in-house. Add to that the time you can save in product development cycles and reduced errors, and prototyping in-house with Stratasys 3D Printers is clearly a good business decision — even if you don't often outsource.

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 and Performance.** Whether you need the best in product realism for important design reviews, or unsurpassed durability to withstand rigorous testing, the Design Series has a 3D printer that's right for you.

About our technologies

PolyJet™ technology-driven 3D Printers work by jetting state-of-the-art photopolymer materials in ultra-thin layers onto a build tray — layer by layer — until the high-resolution prototype is complete. 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 FDM® technology is the foundation for Fortus® and Dimension® 3D Printers. Materials are heated in an extrusion head and deposited in thin layers on a modeling base. The model is built, layer upon layer, with exactness from the bottom up. When the model is complete, the soluble support material is removed, leaving an accurate, durable, functional 3D prototype made of production-grade thermoplastic.

Why consider Stratasys Design Series 3D Printers?

Directed by you, powered by industry-leading technologies.
Investing in Stratasys 3D Printing brings a global leader onto your team. Proven, professional FDM and PolyJet technologies seamlessly transform your ideas from CAD data into faithful prototypes.

Collaborate with confidence.
Design Series 3D Printers improve communication by producing remarkable prototypes right where you need them. Iterate quickly and share 3D models with colleagues and clients for faster, more confident buy-in. Protect your ideas by keeping confidential projects in-house.

Big ideas fit into your creative space.
We've redefined office printing and made it 3D. Built on the same technologies as our larger 3D production systems, but compact enough for your workplace, Design Series 3D Printers are clean, quiet and easy to use.

You dream in different shapes, sizes, materials and colors. Now build in them.
Precision 3D Printers from the Design Series can produce beautifully smooth, finely detailed models right on your desktop, or wow clients with vibrantly colored, rubber and clear components all in one fast, automated build. Performance 3D Printers deliver durable prototypes for rigorous testing in ABS*plus*™ thermoplastic, with the freedom of soluble support. Either way, you gain maximum feedback on every iteration.

How it works

With Design Series 3D Printers, proven PolyJet and 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 or VRML 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 PolyJet and FDM technologies build your 3D prototype and its support material, layer by layer, from the bottom up.

[3] Remove supports. Take your printed prototype out of the printer's build chamber and remove the soluble or water-jet removable support structures.

The Idea Series The Design Series The Production Series

The Design Series

Precision

Precision prototyping solutions, driven by PolyJet technology, set the industry standard for final product realism. PolyJet 3D Printing offers unparalleled speed and the widest range of material properties on the market, including rigid, rubber, clear and vibrantly colored. Connex systems let you combine mutiple materials in one model, or diverse models into one print job, and the Objet260 Connex3 provides vibrant color, straight from your CAD program with support for VRML files.

Product Specifications	Objet24	Objet30	Objet30 Pro	Objet30 Prime
Model Materials	Rigid Opaque: VeroWhitePlus™	Rigid Opaque: VeroWhitePlus VeroGray™, VeroBlue™ VeroBlackPlus™ Simulated Polypropylene (Durus™)	Rigid Opaque: VeroWhitePlus VeroGray, VeroBlue, VeroBlackPlus Transparent: VeroClear™ Simulated Polypropylene (Endur™ and Durus) High Temperature	Rigid Opaque: VeroWhitePlus VeroGray, VeroBlue, VeroBlackPlus Transparent: RGD720 and VeroClear Simulated Polypropylene (Endur and Durus) High Temperature Rubber: TangoGray™ and TangoBlack™ Bio-compatible
Support Material	SUP705 non-toxic gel-like photopolymer support	SUP705 non-toxic gel-like photopolymer support	SUP705 non-toxic gel-like photopolymer support	SUP705 non-toxic gel-like photopolymer support
Build Size (XxYxZ)	234 x 192 x 148.6 mm (9.21 x 7.55 x 5.85 in)	294 x 192 x 148.6 mm (11.57 x 7.55 x 5.85 in)	294 x 192 x 148.6 mm (11.57 x 7.55 x 5.85 in)	294 x 192 x 148.6 mm (11.57 x 7.55 x 5.85 in)
Build Resolution	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 900 dpi	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 900 dpi	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 900 dpi	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 1600 dpi
Accuracy*	.1mm (.0039 in)	.1mm (.0039 in)	.1mm (.0039 in)	.1mm (.0039 in)
Layer Thickness	Horizontal build layers down to 28 microns (.0011 in)	Horizontal build layers down to 28 microns (.0011 in)	Horizontal build layers down to 16 microns (.0006 in)	Horizontal build layers down to 16 microns (.0006 in)
Workstation Compatibility	Windows XP/Windows 7/ Windows 8	Windows XP/Windows 7/ Windows 8	Windows XP/Windows 7/ Windows 8	Windows XP/Windows 7/ Windows 8
Network Connectivity	Ethernet TCP/IP 10/100 base T	Ethernet TCP/IP 10/100 base T	Ethernet TCP/IP 10/100 base T	Ethernet TCP/IP 10/100 base T
System Size and Weight	825 x 620 x 590 mm (32.28 x 24.4 x 23.22 in); 93 kg (205 lbs)	825 x 620 x 590 mm (32.28 x 24.4 x 23.22 in); 93 kg (205 lbs)	825 x 620 x 590 mm (32.28 x 24.4 x 23.22 in); 93 kg (205 lbs)	825 x 620 x 590 mm (32.28 x 24.4 x 23.22 in); 93 kg (205 lbs)
Power Requirements	Single phase: 100-200V; 50-60Hz; 7A or 200-240V; 50-60Hz 3.5A	Single phase: 100-200V; 50-60Hz; 7A or 200-240V; 50-60Hz 3.5A	Single phase: 100-200V; 50-60Hz; 7A or 200-240V; 50-60Hz 3.5A	Single phase: 100-200V; 50-60Hz; 7A or 200-240V; 50-60Hz 3.5A
Regulatory Compliance	CE/FCC/RoHS	CE/FCC/RoHS	CE/FCC/RoHS	CE/FCC/RoHS
Operational Conditions	Temperature 18-25°C (64-77°F); relative humidity 30-70%	Temperature 18-25°C (64-77°F); relative humidity 30-70%	Temperature 18-25°C (64-77°F); relative humidity 30-70%	Temperature 18-25°C (64-77°F); relative humidity 30-70%

* Varies depending on part geometry, size, orientation, material and post-processing method

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Product Specifications	Objet Eden260VS
Model Materials	Rigid Opaque: VeroGray**, VeroBlue**, VeroWhitePlus**, VeroBlackPlus* Rubber*: Tango™ family Transparent: RGD720* and VeroClear** Simulated Polypropylene*: (Endur and Durus) High Temperature Bio-compatible*: MED610 *Works with SUP705 **Works with SUP705 or SUP707
Support Material	SUP705 and SUP707 (Soluble support)
Build Size (XxYxZ)	255 x 252 x 200 mm (10.0 x 9.9 x 7.9 in)
Layer Thickness	Horizontal build layers as fine as 16 microns (.0006 in)
Build Resolution	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 1600 dpi
Accuracy	20-85 microns for features below 50 mm; up to 200 microns for full model size (for rigid materials only, depending on geometry, build parameters and model orientation)
Workstation Compatibility	Windows 7 32/64-bit
Network Connectivity	LAN - TCP/IP
System Size and Weight	870 × 735 × 1200 mm (34.25 × 28.9 × 47.25 in); 410 kg (902 lbs)
Power Requirements	110-240 VAC 50/60Hz; 1.5 KW single phase
Operational Conditions	Temperature 18-25°C (64°-77 F); relative humidity 30-70% (non-condensing)

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Product Specifications	Objet260 Connex1	Objet260 Connex2	Objet260 Connex3
Model Materials	Rigid Opaque: VeroWhitePlus, VeroBlackPlus, VeroGray and VeroBlue Rubber: Tango family Transparent: RGD720 and VeroClear Simulated Polypropylene (Endur and Durus) Bio-compatible High Temperature	Rigid Opaque: VeroWhitePlus, VeroBlackPlus, VeroGray and VeroBlue Rubber: Tango family Transparent: RGD720 and VeroClear Simulated Polypropylene (Endur and Durus) Bio-compatible High Temperature	Rigid Opaque: Vero™ family including color Rubber: Tango family including color and translucent Transparent: RGD720 and VeroClear Simulated Polypropylene (Endur and Durus) Bio-compatible High Temperature
Digital Materials	Not applicable	Digital ABS and Digital ABS2™ Wide range of translucencies Rubber blends in a range of Shore A values Simulated Polypropylene materials with improved heat resistance	Digital ABS and Digital ABS2 in ivory and green Hundreds of vibrant, repeatable colors in opaque and translucent Rubber blends in a range of Shore A values and colors Simulated Polypropylene materials with improved heat resistance
Support Material	SUP705 non-toxic gel-like photopolymer support	SUP705 non-toxic gel-like photopolymer support	SUP705 non-toxic gel-like photopolymer support
Build Size (XxYxZ)	255 x 252 x 200 mm (10.0 x 9.9 x 7.9 in)	255 x 252 x 200 mm (10.0 x 9.9 x 7.9 in)	255 x 252 x 200 mm (10.0 x 9.9 x 7.9 in)
Layer Thickness	Horizontal build layers as fine as 16 microns (.0006 in)	Horizontal build layers as fine as 16 microns (.0006 in)	Horizontal build layers as fine as 16 microns (.0006 in)
Build Resolution	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 1600 dpi	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 1600 dpi	x-axis: 600 dpi; y-axis: 600 dpi; z-axis: 1600 dpi
Accuracy	20-85 microns for features below 50 mm; up to 200 microns for full model size	20-85 microns for features below 50 mm; up to 200 microns for full model size	20-85 microns for features below 50 mm; up to 200 microns for full model size
Workstation Compatibility	Windows 7	Windows 7	Windows 7
Network Connectivity	LAN - TCP/IP	LAN - TCP/IP	LAN - TCP/IP
System Size and Weight	870 x 735 x 1200 mm (34.3 x 28.9 x 47.2 in) 264 kg (582 lbs) *Material Cabinet:* 330 x 1170 x 640 mm (13 x 46.1 x 26.2 in) 76 kg (168 lbs)	870 x 735 x 1200 mm (34.3 x 28.9 x 47.2 in) 264 kg (582 lbs) *Material Cabinet:* 330 x 1170 x 640 mm (13 x 46.1 x 26.2 in) 76 kg (168 lbs)	870 x 735 x 1200 mm (34.3 x 28.9 x 47.2 in) 264 kg (582 lbs) *Material Cabinet:* 330 x 1170 x 640 mm (13 x 46.1 x 26.2 in) 76 kg (168 lbs)
Power Requirements	110-240 VAC 50-60Hz; 1.5 KW single phase	110-240 VAC 50-60Hz; 1.5 KW single phase	110-240 VAC 50-60Hz; 1.5 KW single phase
Operational Conditions	Temperature 18-25°C (64-77°F); relative humidity 30-70% (non-condensing)	Temperature 18-25°C (64-77°F); relative humidity 30-70% (non-condensing)	Temperature 18-25°C (64-77°F); relative humidity 30-70% (non-condensing)

Performance

Performance prototyping solutions build parts strong enough to withstand rigorous testing. This category includes Dimension 3D Printers and the Fortus 250mc, which bring you ABS*plus* strength and the freedom to build solid or sparse-filled parts, or even insert stock components during the build. Add to that a range of color options, as well as easy-to-remove support materials, and you'll have a prototyping powerhouse.

Product Specifications	Dimension	Fortus 250mc
Model Materials	ABS*plus* in nine colors	ABS*plus* in nine colors
Support Material	Soluble (SST 1200es and Elite) breakaway (BST 1200es)	Soluble
Build Size (XxYxZ)	**Dimension 1200es:** 254 x 254 x 305 mm (10 x 10 x 12 in) **Dimension Elite:** 203 x 203 x 305 mm (8 x 8 x 12 in)	254 x 254 x 305 mm (10 x 10 x 12 in)
Layer Thickness	**Dimension 1200es:** .33 mm (.013 in) or .254 mm (.010 in) **Dimension Elite:** .254 mm (.010 in) or .178 mm (.007 in)	.013 in (.330 mm) .010 in (.254 mm) .007 in (.178 mm)
Workstation Compatibility	Windows XP/Windows 7	Windows XP/Windows 7
Network Connectivity	Ethernet TCP/IP 10/100 base T	Ethernet TCP/IP 10/100 base T
System Size and Weight	**Dimension 1200es:** 838 x 737 x 1143 mm (33 x 29 x 45 in); 148 kg (326 lbs) **Dimension Elite:** 686 x 914 x 1041 mm (27 x 36 x 41 in); 136 kg (300 lbs)	838 x 737 x 1143 mm (33 x 29 x 45 in)
Power Requirements	100-120 VAC 60 Hz. Minimum 15A dedicated circuit or 220-240 VAC 50/60Hz, minimum 7A dedicated circuit	100-120 VAC 60 Hz. Minimum 15A dedicated circuit or 220-240 VAC 50/60Hz, minimum 7A dedicated circuit
Regulatory Compliance	CE/ETL	CE/ETL

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 small 3D printers for idea development to medium-sized 3D printers for functional prototyping, all the way up to large-scale production systems for digital manufacturing. Simply put: The universe of creation will never be the same.

Learn more at Stratasys.com.

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