

PolyJet



Systems and Materials



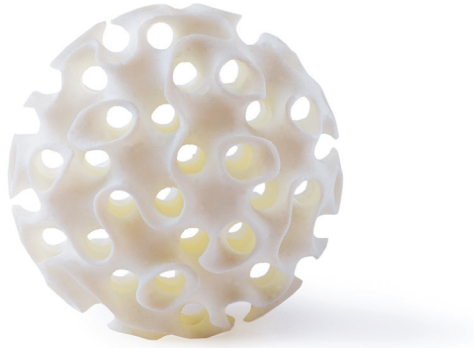
PolyJet



Precision, Power, Pace and Productivity



Agilus30 White geometric orb



Dream it. Print it.

PolyJet™ 3D printers empower designers, engineers, educators and healthcare professionals to create and problem-solve without the limitations of traditional methods of modeling. The power lies with PolyJet technology, curable liquid photopolymers capable of producing very fine layers for smooth surfaces, intricate details and vivid color.

Stratasys® PolyJet technology helps bring to life ideas in virtually any spectrum of colors, and any combination of translucency, opacity, rigidity and elasticity, while simulating a number of desired materials and finishes.

The versatility of PolyJet technology is based on a wide range of available material properties and a suite of 3D printers to suit varied budgets and applications. No matter the industry, PolyJet technology provides the power to hone ideas quickly and accurately.

- Help designers save 50 percent of their time. Product designers and developers can create realistic prototypes and models with full-color elements, labels and true-to-life textures in one operation, to gain focus-group feedback before committing to full production.
- Full-color, flexible materials enable lifelike anatomical models for physician training and pre-surgical planning that lower operating room costs and improve patient outcomes.
- Educators can empower students to design, test and discover in a matter of days, not weeks.
- Dental labs can increase productivity by making multiple models and try-ins in a single print operation to boost production capacity and fuel growth.

Simple choice. Any application.

PolyJet 3D printers are scaled to meet diverse needs in capability and production capacity. The printers fall within two groups: single-material printers that jet one material (base resin) at a time and multimaterial printers with the capacity to jet several base resins simultaneously.

Print single materials.

Single-material printers start with affordable desktop models, featuring PolyJet technology's fine resolution and smooth surface finish. Depending on the specific model, these printers employ a single base resin or several base resins, with a choice of either rigid or flexible characteristics. All single-material printers use SUP705™ support material, removable with a water jet. Several models are also compatible with SUP706B™ soluble support for hands-free, labor-saving support removal.

Vivid cyan light



Print multiple materials.

Multimaterial printers offer the most in PolyJet versatility, performance and productivity, exploiting the benefits of multi-jetting technology. Multimaterial printers enable mixed parts — the combination of several base resins in the same part — and Digital Materials, which is the blending of individual base resins to create new materials with distinct properties. Mixed trays are also possible, meaning one build tray can accommodate multiple parts made with different materials, increasing production efficiency. Large-capacity needs are easily handled by the J4100™, boasting the largest build volume of any PolyJet 3D printer.

The PolyJet lineup also includes the J55™ 3D printer, created for the office or studio environment. With a small footprint, quiet operation and full color capabilities, the J55 puts the power of PolyJet right at your fingertips.

At the top of the versatility and performance spectrum is the J8 Series™, with the versatility to meet any design need. The J826 Prime and J850 Prime are equipped with over 500,000 colors, texture-mapping and the full complement of rigid materials. For engineering applications that don't require color, the J850 Pro provides all the multimaterial and accuracy capabilities of the J850 Prime, at a lower cost. These printers allow users to produce everything from visually stunning, highly realistic prototypes and tools featuring soft-touch parts to visually and tactilely realistic medical models.

The Stratasy J8 series and J55 are Pantone Validated™



Pantone color blocks



Vivid tail light



Glasses frame



Colored dental models



Agilus console



These printers provide the capability to produce everything from visually stunning, highly-realistic prototypes and tools featuring soft-touch parts to visually and tactilely realistic medical models.



Anatomical model



Auto console
in vivid color



Get More Materials and More Potential With PolyJet Printers



Objet30 V5		
	Objet30 Pro™	Objet30 Prime™
Maximum Build Size (XYZ)	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.)
System Size	826 x 600 x 620 mm (32.5 x 23.6 x 24.4 in.)	826 x 600 x 620 mm (32.5 x 23.6 x 24.4 in.)
System Weight	106 kg (234 lbs)	106 kg (234 lbs)
Layer Thickness	28 microns (0.0011 in.) 16 microns (0.0006 in.) for VeroClear™ material	28 microns (0.0011 in.) for Tango™ materials 36 microns for fast draft mode 16 microns (0.0006 in.) for all other materials
Accuracy*	0.1 mm (0.0039 in.)	0.1 mm (0.0039 in.)
Model Material Options	<ul style="list-style-type: none"> • Rigid Opaque: VeroWhitePlus™, VeroGray™, VeroBlue™, VeroBlackPlus™ • Transparent: VeroClear • Simulated Polypropylene: Rigur™, Durus™ • High Temperature • DraftGrey™ 	<ul style="list-style-type: none"> • Rigid Opaque: VeroWhitePlus, VeroGray, VeroBlue, VeroBlackPlus • Transparent: VeroClear, RGD720 • Simulated Polypropylene: Rigur, Durus • High Temperature • Rubberlike: TangoGray™ and TangoBlack™ • Biocompatible Clear (MED610) • DraftGrey
Digital Material Options	N/A	N/A
Support Material	SUP705 (water jet removable) SUP705B (APJ) SUP706B (soluble)	SUP705 (water jet removable) SUP705B (APJ) SUP706B (soluble)
Software	GrabCAD Print™	GrabCAD Print

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

**Measured when ambient temperature is 23 °C and relative humidity is 50%.



	J55™ Prime	J35™ Pro
Maximum Build Size (XYZ)	Round Print Tray with up to 1,174cm ² (182 in ²) Print Height: 190 mm* (7.48 in.)*	Round Print Tray with up to 1,174cm ² (182 in ²) Print Height: 158 mm* (6.22 in.)*
System Size	651 x 661 x 1511 mm (25.63 x 26.02 x 59.49 in.)	651 x 661 x 774 mm (25.63 x 26.02 x 30.48 in.)
System Weight	228 kg (503 lbs.)	98 kg (216 lbs)
Layer Thickness	18 microns (0.0007 in.)	18 microns (0.0007 in.)
Accuracy*	Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150µ; above 100 mm – ±0.15% of part length.** Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – ±180µ; above 100 mm – ±0.2% of part length.**	Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150µ; above 100 mm – ±0.15% of part length.** Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – ±180µ; above 100 mm – ±0.2% of part length.**
Model Material Options	<ul style="list-style-type: none"> • Rigid Transparent: Vero Clear, VeroUltra ClearS • Rigid Opaque: Vero Black Plus, Vero Pure White, DraftGrey, VeroUltra™ BlackS, VeroUltra™ WhiteS • Rigid Color: Vivid Yellow, Vivid Cyan, Vivid Magenta • High Impact: D-ABS 515PLUS, D-ABS 531 • Flexible: Elastico™ Black, Elastico™ Clear • Biocompatible: Vero™ ContactClear 	<ul style="list-style-type: none"> • Rigid and Clear (Vero family): DraftGrey, VeroUltra™ ClearS, VeroUltra™ BlackS, VeroUltra™ WhiteS • Flexible: Elastico™ Black, Elastico™ Clear • High Impact: D-ABS 515PLUS, D-ABS 531 • Bio-compatible: Vero™ ContactClear
Digital Material Options	Unlimited number of composite materials including: <ul style="list-style-type: none"> • Over 640,000 colors • Full CMF • Digital ABS Plus • Rubberlike blends in a variety of Shore A values • Overmolding simulation • Translucent color tints • Opaque Colors 	Composite materials including: <ul style="list-style-type: none"> • Digital ABS Plus • Rubberlike blends in a variety of Shore A values • Overmolding simulation • Monochromatic CMF • Translucent gray shade tints • Opaque Colors
Support Material	SUP710™	SUP710™
Software	GrabCAD Print	GrabCAD Print

* For J35 Pro the printable height is 158 mm (6.22 in.) and the max printable model height is 155 mm (6.1 in.).
For J55 Prime the printable height is 190 mm (7.48 in.) and the max printable model height is 187 mm (7.36in.).

**Measured when ambient temperature is 23 °C and relative humidity is 50%.



J8 Series	J826 Prime
Maximum Build Size (XYZ)	255 x 252 x 200 mm (10 x 9.9 x 7.9 in.)
System Size	820 x 1310 x 665 mm (32.28 x 51.57 x 26.18 in.) Material Cabinet: 656 x 1119 x 637 (25.8 x 44 x 25.1)
System Weight	234 kg (516 lbs.) Material Cabinet: 153 kg (337 lbs.)
Layer Thickness	Horizontal build layers range between 14 microns - 27 microns (.00055 in. - .001 in.) depending on the print mode.
Accuracy*	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ.
Model Material Options	<ul style="list-style-type: none"> • Rigid Opaque: Vero family including natural and color shades and VeroUltra opaque materials in black and white. • Rigid Transparent: Vero Vivid family that includes VeroCyanV, VeroMagentaV, VeroYellowV • Rubberlike: Agilus family of flexible materials • Transparent: VeroClear and VeroUltraClear • Bio-compatible: Vero ContactClear • DraftGrey
Digital Material Options	Unlimited number of composite materials including: <ul style="list-style-type: none"> • Over 500,000 colors • Digital ABS Plus and Digital ABS2 Plus in ivory • Rubberlike blends in a variety of Shore A values • Translucent color tints • Opaque Colors
Support Material	SUP705 (water jet removable) SUP705B (APJ) SUP706B (soluble)
Software	GrabCAD Print

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



J8 Series	J850 Prime	J850 Pro
Maximum Build Size (XYZ)	490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)	490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)
System Size	1,400 x 1,260 x 1,100 mm (55.1 x 49.6 x 43.3 in.) Material Cabinet: 656 x 1119 x 637 (25.8 x 44 x 25.1)	1,400 x 1,260 x 1,100 mm (55.1 x 49.6 x 43.3 in.) Material Cabinet: 656 x 1119 x 637 (25.8 x 44 x 25.1)
System Weight	430 kg (948 lbs) Material Cabinet: 152 kg (335 lbs)	430 kg (948 lbs) Material Cabinet: 152 kg (335 lbs)
Layer Thickness	Horizontal build layers range between 14 microns - 27 microns (.00055 in. - .001 in.) depending on the print mode and 55 microns (.002 in.) for super high speed printing mode.	Horizontal build layers range between 14 microns - 27 microns (.00055 in. - .001 in.) depending on the print mode and 55 microns (.002 in.) for super high speed printing mode.
Accuracy*	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ or ± 0.06% of part length, whichever is greater.	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ or ± 0.06% of part length, whichever is greater.
Model Material Options	<ul style="list-style-type: none"> • Rigid Opaque: Vero family including natural and color shades and VeroUltra opaque materials in black and white. • Rigid Transparent: Vero Vivid family that includes VeroCyanV, VeroMagentaV, VeroYellowV • Rubberlike: Agilus family of flexible materials • Transparent: VeroClear and VeroUltraClear • Bio-compatible: Vero ContactClear • DraftGrey 	<ul style="list-style-type: none"> • Rigid Opaque: Vero and VeroUltra families of Opaque materials in black and white • Rubberlike: Agilus family of flexible materials • Transparent: VeroClear and VeroUltraClear • Bio-compatible: Vero ContactClear • DraftGrey
Digital Material Options	Unlimited number of composite materials including: <ul style="list-style-type: none"> • Over 500,000 colors • Digital ABS Plus and Digital ABS2 Plus in ivory • Rubberlike blends in a variety of Shore A values • Translucent color tints • Opaque Colors 	Composite materials including: <ul style="list-style-type: none"> • Digital ABS Plus and Digital ABS2 Plus in ivory • Rubberlike blends in a variety of Shore A values • Translucent shade tints • Opaque Colors
Support Material	SUP705 (water jet removable) SUP705B (APJ) SUP706B (soluble)	SUP705 (water jet removable) SUP705B (APJ) SUP706B (soluble)
Software	GrabCAD Print	GrabCAD Print

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

Advanced materials. Designed to give you more.



We not only provide the widest choice of materials, we'll also help you get the best out of them.

We're continually developing and investing in our hardware, software and services to help you get the best possible results. Improving accuracy, flexibility and reliability. All in less time, with less hassle.

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