Stratasys H350

Accurate, production-grade parts with best-in-class* consistency.

Meet high production demands with the Stratasys® H350™ powder bed fusion 3D printer.

Brochure

Stay competitive with best-in-class consistency

Grow your part production business for a variety of industries and applications with a workflow you can fully control. Built for high-volume, short-run production, the Stratasys H350 3D printer gives you control of your materials, workflow, production and costs while delivering consistency and accuracy print after print. The Stratasys H350 is the first release of the H Series™ production platform, which has Selective Absorption Fusion™ SAF™ technology at its heart to deliver functional, production-grade parts with best-in-class* consistency.

*Compared to other powder bed fusion technologies using print heads.

Achieve superior part quality and repeatability

With its unique thermal management Big Wave™ powder deposition, SAF technology produces high-volume parts with accuracy and repeatability. This gives you part consistency throughout your build and ensures reproducible part quality — even on fine feature details, flat areas and large parts. Produce parts with a uniform, smooth surface that are suitable for a wide range of applications.

H350

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flexibility to tailor your own workflow

Maximize process flexibility and boost your productivity

The H350 3D printer allows users to choose their build preparation software platforms to suit their business needs. With no mandatory cloud connection, no forced firmware updates and the ability to reuse previous print settings, you can have quality control of your production.

The H350's workflow also gives you complete control over your powder quality management and build data so that you can easily certify your production. Its stable process is supported by its industrial-grade components and consistent thermal process. Plus, print heads are not consumable items, so there's no need for frequent recertification — meaning the print process and performance remain steady.

The flexibility to tailor your own workflow empowers you to meet your customers' specifications for different application requirements. Save settings and reuse for repeat builds at any time. Reproduce precise, geometric measurements and mechanical properties to achieve part consistency. Monitor and adjust settings with few consumables, easy upkeep and long-lasting industrial-grade print heads, to produce the part qualities that meet the standards of each application.

Parts with no hidden costs

With few consumables, easy upkeep and long-lasting industrial-grade print heads, the H350 printer has been designed to last. Maintenance and labor requirements are low, so you can maximize production uptime while minimizing running costs. Fewer restrictions in part orientation mean high nesting density, which maximizes the number of parts per build. If you choose to, you can reuse all of your unfused powder — keeping material costs down and significantly reducing cost per part.

A single fusing fluid also means a simple and predictable cost per part. Additionally, print heads are non-consumables and included as part of your service contract.

H350 workflow

1. Nest
Nest parts to create a build job.

7. Breakout and powder retrieval
Remove parts from a build and retrieve unfused powder.

8. Dosing
Retrieve unfused powder and mix with virgin material for printer refill.

2. Send
Send print jobs to the printer.

3. Print
SAF technology provides a uniform thermal experience for improved part consistency.

A. Big Wave powder management system precisely and evenly deposits a new layer.

B. The layer is immediately heated to maintain thermal homogeneity and ensure part quality.

C. Industrial piezoelectric print heads jet high-energy HAF™ high absorption fluid on the powder.

D. Infrared energy fuses the selected areas and underlying particles.

4. Monitor
Monitor progress of all printers in your fleet with GrabCad Print Server.

5. Data retrieval
Retrieve data from a build job for quality control and to certify production.

6. Build removal
Remove a completed build to cool down.

9. Powder refill
Put dosed powder in the machine (e.g., 70:30 used-to-virgin ratio).

Additional part-finishing steps:

10. Depowdering/bead blasting
Use your choice of equipment to remove any excess powder from the part surface to create a finished raw part.

Adaptable workflow

Stratasys H350 build removal box

Simple, transportable add what you need

Trolley

Easy build box transport

Powder retrieval station

Solution for Stratasys H350 printer or your choice

Stratasys H350 powder container

Add what you need

Powered by SAF technology

SAF technology is an industrial-grade additive manufacturing solution that delivers production-level throughput for end-use parts. This is achieved by selectively jetting HAF fluid with industrial piezoelectric print heads onto a layer of powder-form material in just one, full-width pass.

Thanks to its unique in-line, unidirectional architecture, SAF technology prints, fuses, recoats (with Big Wave powder system) and powder heats in the same direction. The time-controlled manner of these processes ensure a uniform thermal experience and part consistency across the whole bed.

SAF technology jets single or multiple drops of highly loaded fluids to produce fine detail or large fused areas without compromising throughput. It also has the ability to jet unique, high-specialty, functional fluids to process a broad range of powders and manufacture parts with selectively defined point-to-point properties.

Due to the savings of implementing industrial-grade technology, SAF-based products will deliver a competitive cost per part, production-level throughput, part quality and consistency, and a high production yield.

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See the specs

Printer Performance	
Effective build size (xyz)	315 x 208 x 293 mm (12.40 x 8.18 x 11.53 in)
Effective build volume	19.2 l (5.07 gallon)
Layer thickness	100 µ (0.004 in)
Time to a full build	11.62 hrs.
Power	
Requirements	400VAC, 3P+N, PE, 50-60 Hz, 16A
Consumption	3.25 kw, 5 kw (peak), 0.15 kw (Idle)
Operating conditions	
Temperature	20-25° C (68-77 deg F)
Humidity	[40-55]% RH
Extraction rate	300m³/h (177 CFM) with adjustable damper
Dimensions (W x D x H)	
Printer	1900 x 940 x 1730 mm (74.8 x 37.0 x 68.1 in)
Printer crate	2156 x 1196 x 2100 mm (84.9 x 47.1 x 82.7 in)
Weight	
Printer	825 kg (1819 lb)
Crated printer	950 kg (2094 lb)
Connectivity	
Network requirements	RJ45 Ethernet connection 35MBit Network with DHCP server and internet access
Software	
Supported software workflow	GrabCAD Print*
	GrabCAD Print Server
	Materialise Magics, Siemens NX and PTC Creo
Certificates	
Safety	EN ISO 12100:2010
Electromagnetic	DIRECTIVE 2014/30/EU
Environmental	REACH, RoHS, WEEE, Modern Slavery Act, CoA, CoC (and from 2021, Conflict Minerals regulation), TSCA
Materials	
Powder	Stratasys High Yield PA11
Fluid	Stratasys HAF™ high absorption fluid
Warranty and Service	
Warranty	1 year limited warranty (warranty include print heads and consumables**)
Service	Service plans include print heads and consumables**

* To be released in 2022

** H350 printer consumables refers to H350 parts that wear out relatively frequently and need replacement by the customer. For clarity, H350 printer consumables do not include H350 materials, HAF or powders, and do not include other materials required for the maintenance of the H350 such as cleaning fluids, gloves and swabs.

Learn more about SAF technology and the H350 3D printer at **stratasys.com**.

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