



## Stratasys H350

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

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



# 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.

# 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.

# H350

---

flexibility to tailor your own workflow





# 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.

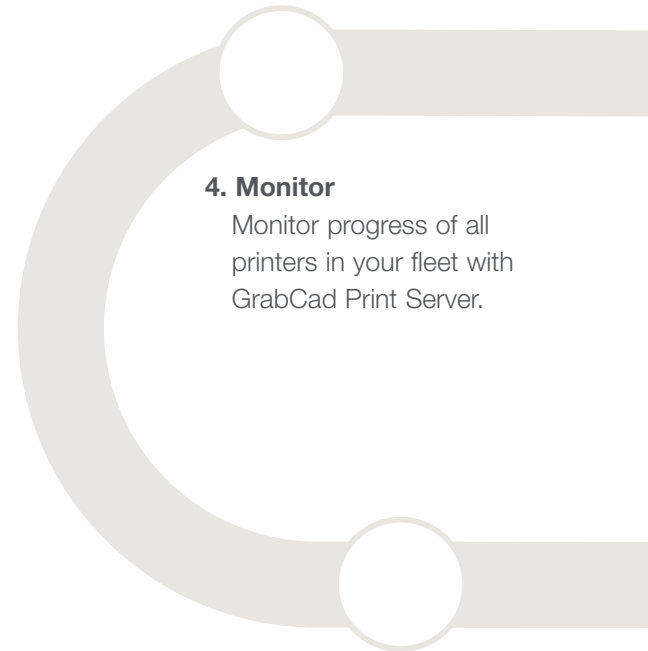
A single fusing fluid also means a simple and predictable cost per part. Additionally, print heads are non-consumables and included as part of your service contract.

# H350 workflow



## 1. Nest

Nest parts to create a build job.



## 4. Monitor

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

## 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.

## 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.

## 7. Breakout and powder retrieval

Remove parts from a build and retrieve unfused powder.

## 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.

SAF technology jets single or multiple drops of highly loaded fluids to produce fine detail or large fused areas without compromising throughput.



# 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	300 m3/h (294 CFM)
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	Materialise Magics, Siemens NX and PTC Creo GrabCAD Print Server
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 High Absorption Fluid HAF™
Warranty and Service	
Warranty	1 year limited warranty (warranty include print heads and consumables)
Service	Service plans include print heads and consumables

Learn more about SAF technology and the H350 3D printer at [stratasys.com](https://stratasys.com).



**USA - Headquarters**

7665 Commerce Way  
Eden Prairie, MN 55344, USA  
+1 952 937 3000

**EMEA**

Airport Boulevard B 120  
77836 Rheinmünster, Germany  
+49 7229 7772 0



**GET IN TOUCH.**

[www.stratasys.com/contact-us/locations](https://www.stratasys.com/contact-us/locations)

**ISRAEL - Headquarters**

1 Holtzman St., Science Park  
PO Box 2496  
Rehovot 76124, Israel  
+972 74 745 4000

**ASIA PACIFIC**

7th Floor, C-BONS International Center  
108 Wai Yip Street Kwun Tong Kowloon  
Hong Kong, China  
+ 852 3944 8888

[stratasys.com](https://stratasys.com)

ISO 9001:2015 Certified

© 2021 Stratasys. All rights reserved. Stratasys, the Stratasys Signet logo, Stratasys Direct Manufacturing, H350 and H Series, are trademarks or registered trademarks of Stratasys Inc. The H350 printer is subject to a license from Loughborough University Enterprises Limited and Evonik IP GmbH under the following and/or related patents and patent applications and their family members: EP2739457, EP3539752, EP1648686, EP 1740367, EP1737646, EP1459871. Further details including live and in-force status of family members may be found at <https://worldwide.espacenet.com/patent/search/family/>. SAF, Selective Absorption Fusion, Big Wave, HAF, Xaar and the Xaar square dot logo are trademarks of Xaar companies. All other trademarks are the property of their respective owners, and Stratasys assumes no responsibility with regard to the selection, performance, or use of these non Stratasys products. Product specifications subject to change without notice. BR\_H350\_0321a

