



BROCHURE
SAF

Stratasys® H350™

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

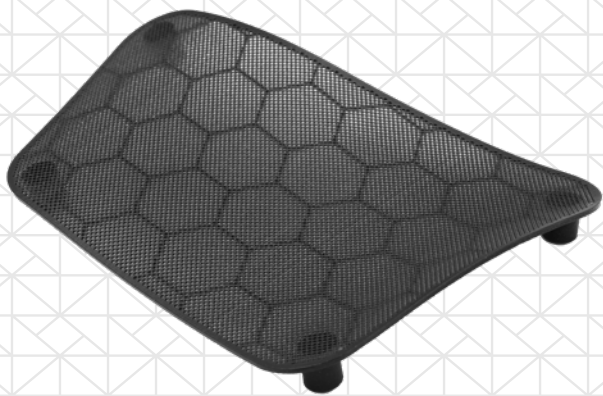
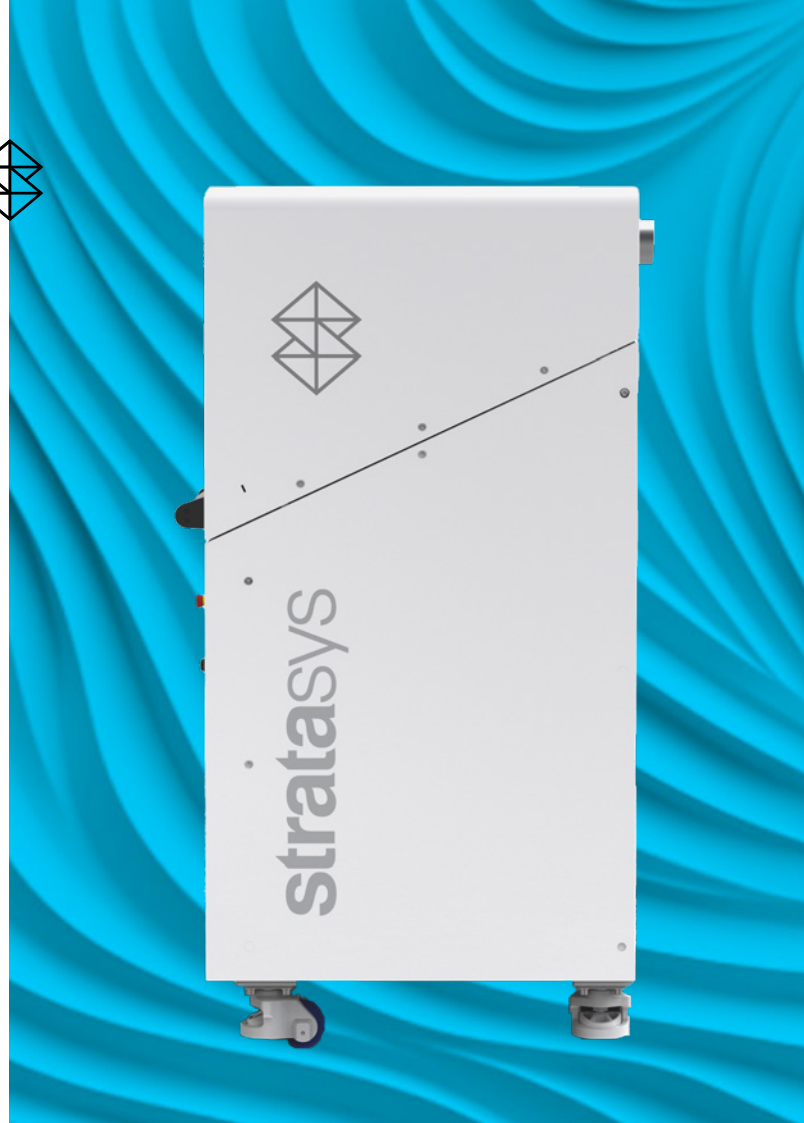
Meet high production demands with the Stratasys H350 powder bed fusion 3D printer.



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

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.



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.

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



Achieve Superior Part Quality and Enhanced Aesthetics with SAF HighDef Printing

Stratasys SAF technology, now equipped with HighDef Printing, brings 3D printed objects to life with enhanced aesthetics and unmatched detail. This innovative feature ensures high-volume parts with superior accuracy and high repeatability. With advanced thermal management and precise fluid deposition, SAF produces parts with consistent quality across fine feature details, flat areas, and large parts. The industry-leading narrowest gap clearance achieved by SAF HighDef ensures precise and tight fits in mechanisms and assemblies, making it ideal for a wide range of applications.

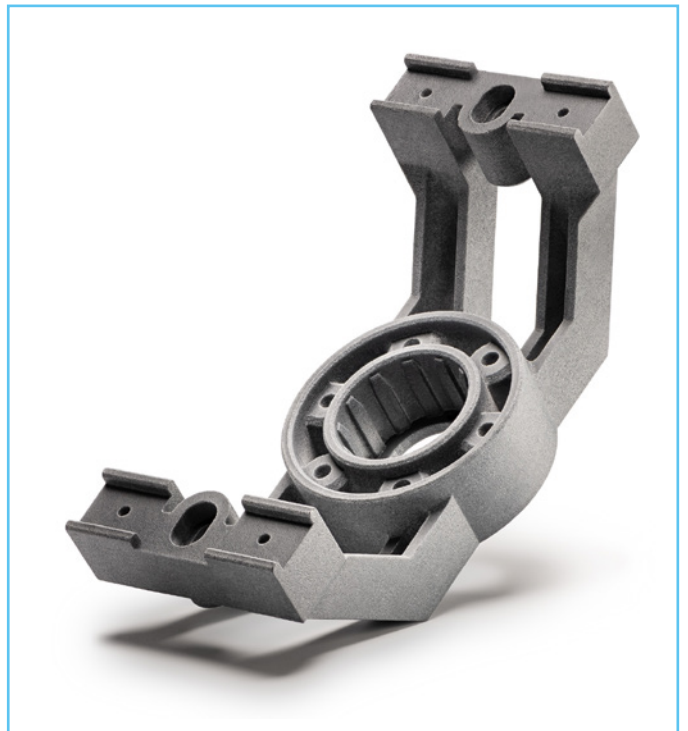


Maximize Process Flexibility and Boost Your Productivity

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 Workflow

1



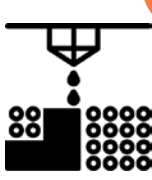
Nest
Nest parts to create a build job.

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.

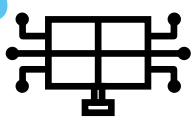
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Build Removal
Remove a completed build to cool down.

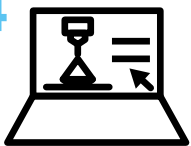


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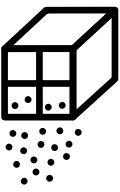
Data Retrieval
Retrieve data from a build job for quality control and certify production.

4



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

7



Breakout and Powder Retrieval
Remove parts from a build and retrieve unfused powder



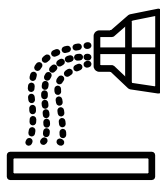
8



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




9



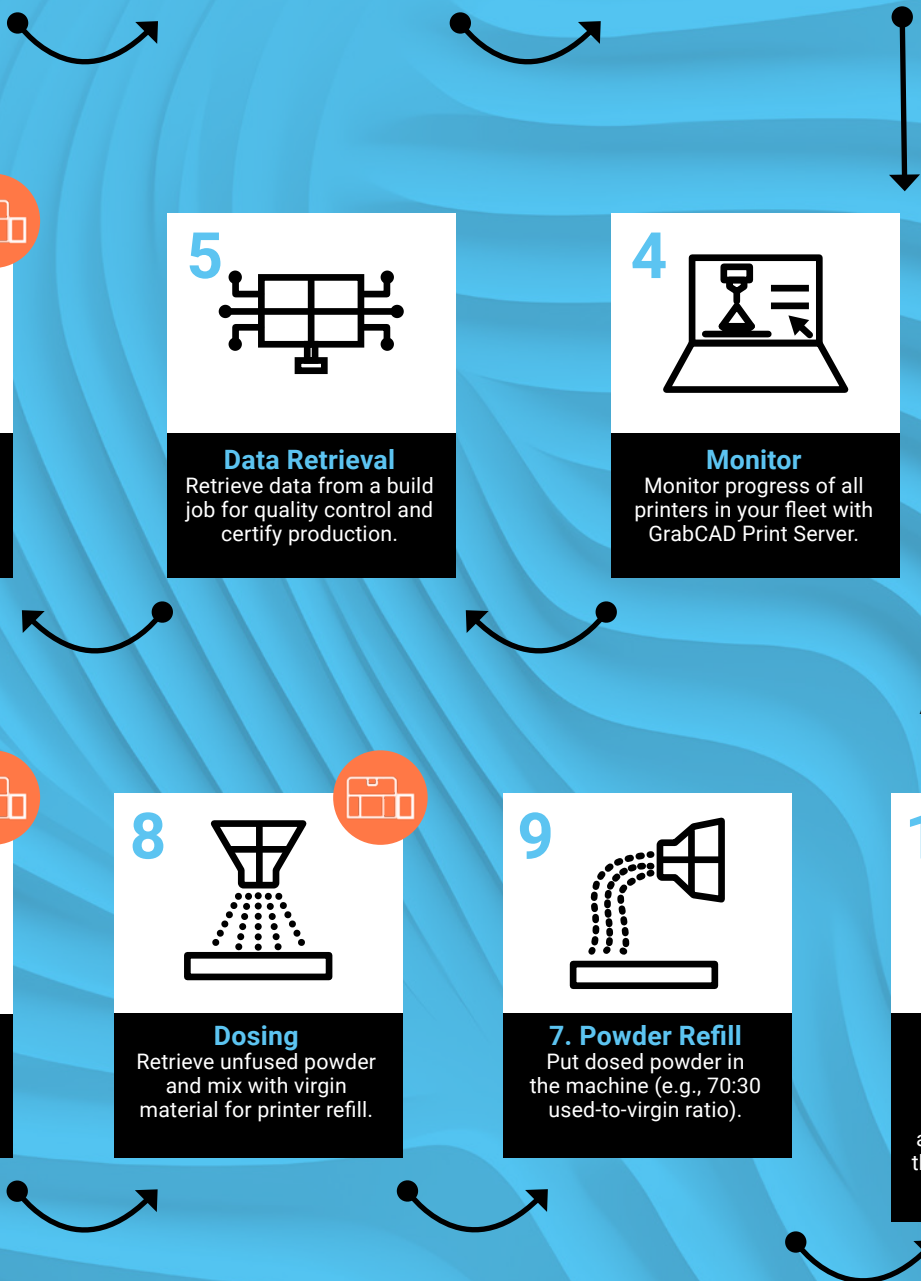
7. Powder Refill
Put dosed powder in the machine (e.g., 70:30 used-to-virgin ratio).

Additional Part-Finishing steps:

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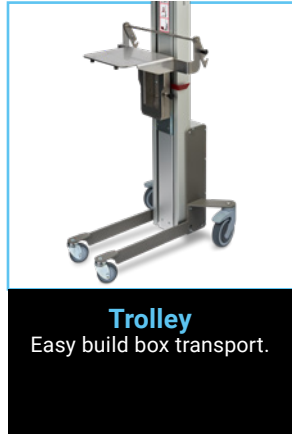


Depowdering/ Bead Blasting
Use your choice of equipment to remove any excess powder from the part surface to create a new raw part.





Adaptable Workflow



* The PowderEase T1 is an optional accessory. SAF workflow is opened for other material handling equipment.

Powered by SAF technology

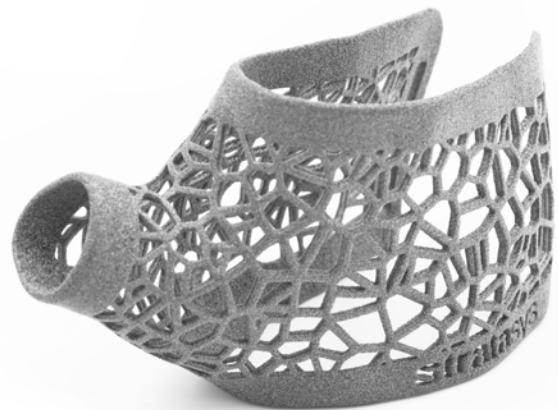
SAF technology is an industrial-grade additive manufacturing solution that delivers production-level throughput for end-use parts. This is achieved by selectively jetting HAF fluid with industrial piezoelectric print heads onto a layer of powder-form material in just one, full-width pass.

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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Specifications

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	300m ³ /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 recommended
Software	
Supported Software Workflow	GrabCAD Print, GrabCAD Print Pro GrabCAD Print Server GrabCAD Streamline Pro 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	
Powders	High Yield PA11, SAF™ PA12, SAF™ PP, SAF™ ReLife™ PA12, SAF™ PA12 - Powered by Evonik
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*

* 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.



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