



### **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.



<sup>\*</sup>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.



### 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.

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

### 3. Print

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

- B. The layer is immediately heated to maintain thermal homogeneity and ensure part quality.
- print heads jet high-energy HAF™ high absorption fluid on the powder.
- C. Industrial piezoelectric 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  $19.2 \ | \ (5.07 \ gallon)$  Layer thickness  $100 \ \mu \ (0.004 \ in)$  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



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