HP Jet Fusion 540 3D Printer

Accelerate your creation workflow—produce functional parts in a fraction of the time¹

Accurate, functional parts with intricate detail

- Produce engineering-grade thermoplastic parts with optimal mechanical properties.
- Achieve fine detail and high dimensional accuracy for small features.
- Get accurate and repeatable results.
- Prototype and produce functional parts, averaging up to 100 parts per week.²

Streamline design—create, test, iterate in hours

- Produce multiple prototype iterations in the same time it takes to print a single part.¹
- Access convenient in-house automated 3D printing with the most compact HP Jet Fusion 3D device.
- Get the parts you want when you need them, easily, reliably, and predictably.
- Get immediate access to support and comprehensive training with affordable HP Jet Fusion 3D Solution Services.

Print consistent white parts with voxel control

- Produce clean, white models.
- Stay ahead with a future-ready technology.
- Prototype, then do final part production on the HP Jet Fusion 4200 3D Printing Solution, using the same technology.

For more information, please visit hp.com/go/3DPrinter540

Data courtesy of NACAR. The final color of the part may vary.
A fully integrated, compact design

An easy-to-use solution that integrates material mixing and loading, printing, and reclaiming material in one device.

Prototype, then produce with the same technology

Transition seamlessly from prototyping on an HP Jet Fusion 540 3D Printer to final part production on an HP Jet Fusion 4200 3D Printing Solution. Achieve consistent part properties with the same HP Multi Jet Fusion technology.

Streamline design from prototyping to production

Print consistent, quality parts

Reduce time to market
Reinventing 3D printing
HP Jet Fusion 540 3D Printer

1. Prepare designs: Open your 3D models and check for errors with the easy-to-use HP SmartStream 3D Build Manager.

2. Send to print: Pack your models in the 3D build manager and press “Send to print” to submit your job to the printer.

3. Select job: Choose your print job at the printer.

4. Add supplies: Insert 3D materials and agent cartridges into the printer as needed.

5. Automated material mixing and loading: The printer automatically mixes fresh and reusable material and loads it into the print area. Agents are automatically loaded into the print area as well.

6. Print with voxel-level control: Press “Start” to begin printing with fine detail and high dimensional accuracy, thanks to HP’s multi-agent printing process.

7. Automated material extraction and reclamation: After printing is finished, the printer automatically extracts and reclaims unfused material for future builds. You can use up to 80% reusable material in builds while maintaining consistent performance.*

8. Job done: You receive an alert when your parts are ready and the reclamation process is complete.

9. Retrieve parts: Simply open the printer and retrieve your parts for final cleaning and post processing.

10. HP Jet Fusion 3D Solution Services – with you at every step: Accelerate your design cycle with immediate access to support, affordable solution services, and comprehensive training.

*HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability CB PA 12 provide up to 80% powder reusability ratio producing functional parts batch after batch. For testing, material is aged in real printing conditions and powder is tracked by generations (worst case for reusability). Parts are then made from each generation and tested for mechanical properties and accuracy.
## Technical information

### HP Jet Fusion 540 3D Printer

<table>
<thead>
<tr>
<th>Printer performance</th>
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<tbody>
<tr>
<td>Technology</td>
<td>HP Multi Jet Fusion technology</td>
</tr>
<tr>
<td>Effective building volume</td>
<td>Up to 332 x 190 x 248 mm (13.1 x 7.5 x 9.8 inches)</td>
</tr>
<tr>
<td>Building speed¹</td>
<td>1,817 cm³/hr (111 in³/hr)</td>
</tr>
<tr>
<td>Full build job time for 248-mm (9.8-in) buildable height¹</td>
<td>As fast as 20 hours</td>
</tr>
<tr>
<td>Layer thickness</td>
<td>0.08 mm (0.003 inches)</td>
</tr>
<tr>
<td>Print head resolution</td>
<td>1200 dpi</td>
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</tbody>
</table>

### Dimensions (w x d x h)

- Printer: 1565 x 955 x 1505 mm (61.6 x 37.6 x 59.3 inches)
- Shipping: 1770 x 1143 x 2013 mm (69.7 x 45 x 79.3 inches)
- Operating area: 2785 x 2530 x 2440 mm (109.6 x 99.3 x 96 inches)

### Weight

- Printing: 650 kg (1433 lb)
- Shipping: 850 kg (1874 lb)

### Environmental ranges

- Operating temperature: 20–30°C (68–86°F)
- Operating humidity: 20–70% RH without condensation

### Acoustics³

- Front operating position: 72 dB (without muffler) / 70 dB (with muffler)
- Rear bystander position: 80 dB (without muffler) / 75 dB (with muffler)

### Network⁶

- Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP DHCP (IPv4 only), TLS/SSL

### Hard disk

- HDD 1TB (AES-256 encrypted, disk wipe DoD 5520M) & SSD 1TB (AES-256 encrypted)

### Software

- Included software: HP SmartStream 3D Build Manager
- Supported file formats: 3MF, STL, DBC, VRML v.2

### Power

- Consumption: 4.5–6.3 kW (typical)
- Requirements: One dedicated circuit configuration: input voltage 200 – 240 V (line-to-line), 36 A max, 50/60 Hz

### Certification

- Environmental: REACH compliant

### Warranty & service coverage included

- One-year limited hardware warranty

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### Eco Highlights

- HP 3D powders and agents are not classified as health hazards³.
- Cleaner, more comfortable experience—enclosed printing system, and automatic powder management⁹.
- Minimizes waste due to industry-leading reusability of powder ¹⁰.
- Take-back program for agent cartridges¹¹.

Find out more about HP sustainable solutions at [hp.com/ecosolutions](http://hp.com/ecosolutions).

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### Ordering information

<table>
<thead>
<tr>
<th>Printer</th>
<th>M2K85A</th>
<th>HP Jet Fusion 540 3D Printer</th>
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</thead>
<tbody>
<tr>
<td>Printer accessories</td>
<td>SRE52A</td>
<td>HP Jet Fusion Muffler</td>
</tr>
</tbody>
</table>

### Recommended cleaning accessories

- Guyson MultiBlast3D (Recommended for EMEA and AMS regions)
- Defini 300 BL (Recommended for EMEA region)
- Tiger-Vac C-10 EX (4W) (Recommended for AMS region)

<table>
<thead>
<tr>
<th>Original HP prinheads</th>
<th>V1Q67A</th>
<th>HP 3D400 printhead kit</th>
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</thead>
<tbody>
<tr>
<td>Original HP agents</td>
<td>V1Q80A</td>
<td>HP 3D400 500-ml detailing agent</td>
</tr>
<tr>
<td></td>
<td>V1Q71A</td>
<td>HP 3D400 500-ml fusing agent</td>
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<tr>
<td></td>
<td>V1Q81A</td>
<td>HP 3D400 250-ml bright fusing agent</td>
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</tbody>
</table>

### Original HP 3D high reusability materials

- V1R3OA | HP 3D HR CB PA 12 10L (4 kg)³

### HP Jet Fusion 3D Solution Services

- U9ZR4E | HP Ready-to-print Service
- U9ZN9E | HP Advanced Operation Training (HP Training Center)
- U9ZQ7E | HP 3 year 2nd Business Day onsite Hardware Support w/DMR
- U9ZR1E | HP 3D400 Air Inlet Filter
- U9ZR2E | HP 3D400 Print Area Filter
- U9ZR3E | HP 3D400 Air Exhaust Filter
- U9ZR5E | HP 3D400 Printhead Cleaning Roll
- U9ZR6E | HP 3D400 Lamp Module

### HP Jet Fusion 500 Series 3D Printers

HP Jet Fusion 500 Series 3D Printers were awarded the “Seal of Design Quality” at the 2018 Red Dot Awards, an honor that is only awarded to products that display outstanding design quality and innovation.

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### Connect with an HP 3D Printing expert or sign up for the latest news about HP Jet Fusion 500 Series 3D Printers at [hp.com/go/3DPrinter540](http://hp.com/go/3DPrinter540)

Learn more about HP Multi Jet Fusion technology at [hp.com/go/3DPrint](http://hp.com/go/3DPrint)

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