HP Jet Fusion 5200 Series 3D Printing Solutions

Unleash new growth and scale production with HP’s most advanced plastics 3D printing solution

Ideal for mid-volume production environments producing over 200 parts per week.

Manufacturing predictability

- Get quality—from fine detail and sharp edges to textures—and optimal yield at industrial-level OEE.
- Produce functional parts with best-in-class isotropy.
- Maximize your equipment uptime, with redundant components, preventive maintenance and support, and HP productivity services.

Breakthrough economics

- Best-in-class economics and productivity—ideal for production environments.
- Uniquely predictable and consistent print time for any type of part.
- Streamlined workflow and HP’s most economical continuous 3D printing with automated materials mixing, enclosed processing station, and natural cooling unit.

Expand into new applications and markets

- Address more final part applications with new levels of repeatable accuracy and best-in-class economics.
- Produce applications with flexible, elastomeric properties with TPU material.
- Deliver a breadth of applications for various markets with HP 3D High Reusability PA 11 and PA 12 materials today, and more in the future.
- Address sustainability, with lower carbon footprint parts, and HP 3D materials offering industry-leading reusability.

Unleash new growth and scale production with HP’s most advanced plastics 3D printing solution

HP 3D Process Control
- Achieve dimensional accuracy and repeatability that rivals industrial tooling—faster.
- Flexibility and agility—without time- and labor-intensive injection molding fine-tuning steps.

HP 3D Center
- Track, manage, and optimize your 3D operations with software that provides remote, real-time monitoring, preventive notifications, and historical data analysis.

HP SmartStream 3D Build Manager
- Quickly and easily prepare your jobs for printing with all the elements you need.

Integration with industry-leading software partners

AUTODESK NETFABB
- Autodesk® Netfabb® with HP Workspace

MATERIALIZ BUILD PROCESSOR
- Materialise Build Processor for HP Multi Jet Fusion technology

SIEMENS
- Siemens NX AM for HP Multi Jet Fusion technology

Learn more at hp.com/go/3DPrinter5200
New materials and applications—new growth opportunities

Expand into new applications and markets with a growing portfolio of HP 3D materials that enable you to produce a variety of low-cost, quality parts—and address sustainability objectives with industry-leading reusability.¹

**HP 3D High Reusability PA 11—ductile, quality parts**
Produce functional parts with impact resistance and ductility.³ This thermoplastic material, made from renewable sources,⁴ provides optimal mechanical properties and consistent performance at industry-leading surplus powder reusability.³

**Certifications:** Biocompatibility,³ REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, Statement of Composition for Toy Applications

**HP 3D High Reusability PA 12—strong, low cost, quality parts**
Reduce total cost of ownership² and produce strong, functional, detailed complex parts with HP 3D High Reusability PA 12, a robust thermoplastic that enables industry-leading surplus powder reusability.³

**Certifications:** Biocompatibility,³ REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, Statement of Composition for Toy Applications, UL 94 and UL 746A Certification

**BASF Ultrasint™ 3D TPU01—flexible, functional parts**
Produce applications with flexible, elastomeric properties with this multipurpose TPU material* that achieves part accuracy with a balanced property profile.

---

**HP recommended post-processing solutions**

**Girbau DY130 Dyeing Solution¹⁰**
With 50 years of experience designing industrial equipment and in the dyeing equipment industry, Girbau offers a post-processing solution for dye finishing made for HP Jet Fusion 5200 Series 3D Printing Solutions.¹⁰

For more information, visit: coloringsystem.girbau.com

---

* TPU material expected general availability end 2019.

**Usage and properties**

<table>
<thead>
<tr>
<th>Usage and properties</th>
<th>HP 3D HR PA11</th>
<th>HP 3D HR PA12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual aids &amp; presentation models</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Functional prototyping</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>End-use parts</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Functional rigid part (higher stiffness)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Ductile part (higher elongation at break)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Impact</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>HDT (heat deflection temperature)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Medical biocompatibility* (USP Class I-VI and US FDA guidance for Intact Skin Surface Devices)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Look and feel</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Powder reusability ratio for stable performance/total cost of ownership (TCO)</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

For more information, visit: hp.com/go/3Dmaterials

---

² TPU material expected general availability end 2019.

³ REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, Statement of Composition for Toy Applications

⁴ Made from renewable sources

⁵ Provides optimal mechanical properties and consistent performance

⁶ Industry-leading surplus powder reusability

⁷ Biocompatibility

⁸ Low cost

⁹ Total cost of ownership

¹⁰ Dyeing equipment for HP Jet Fusion 3D Printing Solutions
Maximize your equipment uptime with HP Jet Fusion 3D Solution Services

Whether you're looking to meet today's needs or tomorrow's dreams, let HP help you get the most out of your 3D printing experience with a range of support offerings including foundational care and lifecycle support, training opportunities, and productivity services that bring ideas to life and speed your journey to full digital manufacturing.

Accelerate your move to HP 3D Printing with HP Financial Services

Leverage the latest technology to help accelerate your growth, profitability, and competitiveness.

Financing options include a low per-month payment for the HP Jet Fusion 5200 Series 3D Printing Solutions, enabling the flexibility to:

- Avoid a large up-front payment
- Align payments with revenue by using deferred or step payment options
- Simplify your administration: bundle hardware and services into a single agreement
- Change as your requirements evolve, refresh every 3–5 years

For more information, contact your HP or HP Financial Services representative.

Technical specifications

HP Jet Fusion 5200 Series 3D Printers

<table>
<thead>
<tr>
<th>Printer performance</th>
<th>Technology</th>
<th>HP Multi Jet Fusion technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective building volume</td>
<td>380 x 284 x 310 mm (15 x 11 x 12.25 in)</td>
<td></td>
</tr>
<tr>
<td>Building speed</td>
<td>Up to 5088 m³/h (1770 m³/h)</td>
<td></td>
</tr>
<tr>
<td>Layer thickness</td>
<td>0.08 mm (0.003 in)</td>
<td></td>
</tr>
<tr>
<td>Print resolution</td>
<td>1200 dpi</td>
<td></td>
</tr>
<tr>
<td>Dimensions (w x d x h)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printer</td>
<td>2720 x 1520 x 1814 mm (87 x 50 x 71 in)</td>
<td></td>
</tr>
<tr>
<td>Shipping</td>
<td>2390 x 1325 x 2077 mm (93 x 52 x 82 in)</td>
<td></td>
</tr>
<tr>
<td>Operating area</td>
<td>3700 x 3700 x 2500 mm (146 x 146 x 98 in)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printer</td>
<td>880 kg (1940 lb)</td>
<td></td>
</tr>
<tr>
<td>Build Unit</td>
<td>140.5 kg (309.7 lb)</td>
<td></td>
</tr>
<tr>
<td>Shipping</td>
<td>103.7 kg (230 lb)</td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td>Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: T1/E1 (HFCP/FH4 units), T1/S1, S1, T1/E1, S1/S1</td>
<td></td>
</tr>
<tr>
<td>Hard disk</td>
<td>1TB HDD SED (AES-256 encrypted), TGC-OPAL 2.01 compliant</td>
<td></td>
</tr>
<tr>
<td>Software</td>
<td>HP 3D Process Control, HP 3D Center, HP SmartFlow (SDBuild/Manager)</td>
<td></td>
</tr>
<tr>
<td>Supported file formats</td>
<td>.SFW, .STL, .BFL, and .WPL, h2 (Z)</td>
<td></td>
</tr>
<tr>
<td>3rd party software</td>
<td>Autodesk Netfabb with HP Workpack Materialise Build Processor for HP Multi Jet Fusion technology, Siemens NX AM for HP Multi Jet Fusion technology</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumption</td>
<td>1.7 kW</td>
<td></td>
</tr>
<tr>
<td>Requirements</td>
<td>380-415 V (line-to-line), 50 A max, 50/60 Hz</td>
<td></td>
</tr>
</tbody>
</table>

HP Jet Fusion 5200 Series 3D Processing Stations

<table>
<thead>
<tr>
<th>Features</th>
<th>Automated printing, viewing, and loading, semi-manual unloading, automated external storage tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (w x d x h)</td>
<td></td>
</tr>
<tr>
<td>Processing station</td>
<td>2390 x 2500 mm (94 x 98 x 99 in)</td>
</tr>
<tr>
<td>Shipping</td>
<td>2389 x 1276 x 2027 mm (94 x 46 x 80 in)</td>
</tr>
<tr>
<td>Operating area</td>
<td>2210 x 1268 x 1804 mm (87 x 40 x 71 in)</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
</tr>
<tr>
<td>Processing station</td>
<td>485 kg (1069 lb)</td>
</tr>
<tr>
<td>Loaded</td>
<td>814 kg (1795 lb)</td>
</tr>
<tr>
<td>Shipping</td>
<td>620 kg (1366 lb)</td>
</tr>
<tr>
<td>Power</td>
<td>2.6 kW (typical)</td>
</tr>
<tr>
<td>Requirements</td>
<td>Input voltage single-phase 200-240 V (line-to-line) 19 A max, 50 Hz (line-to-neutral) 14 A max, 50 Hz</td>
</tr>
<tr>
<td>Certification</td>
<td>Safety</td>
</tr>
<tr>
<td>Environmental</td>
<td>REACH</td>
</tr>
</tbody>
</table>

Dynamic security enabled printer: Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. More at: hp.com/go/learnaboutsupplies.

Learn more at hp.com/go/3DPrinter5200
1. Order information  

**Printer**  
3FW25A HP Jet Fusion 5200 3D Printer  
3FW27A HP Jet Fusion 5200 3D Processing Station  
3FW29A HP Jet Fusion 5200 3D Build Unit  
4QG1 1A HP Jet Fusion 5200 3D Automatic External Tank Starter Kit  
M0P54B HP Jet Fusion 5200/4200 Series 3D External Tank 5-units Bundle  
5ZR21A HP Jet Fusion 5200 3D Semaphore  
4QG10A HP Jet Fusion 5200 3D Natural Cooling Unit  
5ZR22A HP Jet Fusion 5200 3D Natural Cooling Starter Kit  
5ZR19A HP Jet Fusion 5210 3D Printer Installation Kit  
5ZR23A HP Jet Fusion 5210 Pro 3D Printer Installation Kit  
5ZR20A HP Jet Fusion 5210 3D Printing Station Installation Kit  
5ZR24A HP Jet Fusion 5210 Pro 3D Printing Station Installation Kit  
3WL35A HP Jet Fusion 5200/4200 Series 3D Material Unloading Kit  
3FW24A HP Jet Fusion 5200/4200 Series 3D Material Loading 3-units Bundle  
UB8N4E HP Long Term Consumable Cleaning Kit for Service for HP JF 5200 Series 3D Processing Station/Build Unit  
HP OfficeJet Pro 7740 Wide Format All-in-One Printer

**Recommended 3rd party accessories**  
Hovmand Forklift 5200  
Girbau DY130 Dyeing Solution

**Eco Highlights**  
- HP 3D powders and agents are not classified as health hazards.  
- Cleaner, more comfortable experience—enclosed printing system, and automatic powder management.  
- Minimizes waste due to industry-leading reusability of powder.  
- Take-back program for printheads.

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

---

**Original HP printheads**  
FSK08A HP 30600 Printhead

**Original HP agents**  
V1Q63A HP 30700 5L Fusing Agent  
V1Q64A HP 30700 5L Detailing Agent

**Other supplies**  
V1Q66A HP 3D600 Cleaning Roll  
V1R10A HP 3D High Reusability PA 12 30L (13 kg)  
V1R16A HP 3D High Reusability PA 12 300L (130 kg)  
V1R34A HP 3D High Reusability PA 12 300L (130 kg)  
V1R20A HP 3D High Reusability PA 12 1400L (600 kg)  
V1R12A HP 3D High Reusability PA 11 30L (14 kg)  
V1R18A HP 3D High Reusability PA 11 300L (140 kg)  
V1R36A HP 3D High Reusability PA 11 1700 (750 kg)  
V1R24A HP 3D High Reusability PA 11 1700 (750 kg)

**Materials Certified for HP Jet Fusion 3D Printing**  
BASF Ultrasilk™ 3P TPU02

**HP Jet Fusion 3D Solution Services**  
UB6Y0E HP Ready-to-print Service for HP Jet Fusion 5200 Series 3D Printing Solution  
UBBN0E HP Long Term Consumable Initial Maintenance Kit Service for HP Jet Fusion 5200 Series 3D Printer  
UBBNT4 HP Long Term Consumable Initial Maintenance Kit Service for HP Jet Fusion 5200 Series 3D Processing Station  
UB9V8E HP 3 year NBD* Onsite HW Support w/ DMR**  
Production Care for HP Jet Fusion 5200 3D Printer  
UB9X6E HP 3 year NBD* Onsite HW Support Production Care for HP Jet Fusion 5200 3D Build Unit  
UBF3E HP 3 year NBD* Onsite HW Support Production Care for HP Jet Fusion 5200 3D Processing Station  
UB4P2E HP Digital Manufacturing Site Readiness Assessment Tier 1 Service

---

* NBD=Next Business Day  
** DMR=Defective Media Retention

---

1. Parts is 30 cm (part A) at 10% packing density using HP 3D High Reusability PA 12 material, and up to 80% powder reusability ratio.  
2. Total material expected general availability end 2019.  
3. Industry-leading supplier: powder reusability (based on using HP 3D High Reusability PA 11) at PA 12 at recommended packing densities and compared to selective laser sintering (SLS) technology, offers excellent reusability without sacrificing mechanical performance. Tested according to ASTM D638, ASTM D256, ASTM D790, and ASTM D648 and using a 3D scanner. Testing monitored using statistical process controls.  
4. Low carbon footprint per printed HP Multi Jet Fusion part for runs of 1500 or less when compared to injection molded parts. Data comes from ISO 14040/44 compliant and reviewed LCA study.  
5. Testing according to ASTM D638, ASTM D256, and ASTM D648 using HDT at different loads with a 3D scanner. Testing monitored using statistical process controls.  
6. Based on HP internal testing, June 2017. HP 3D600/3D700/3D710 Fusing and Detailing Agents, HP 3D High Reusability PA 11 powder, and HP 3D High Reusability PA 12 powder meet USP Class I-II and USP/FDA guidance for Infant Skin Surfactant Devices. Tested according to USP Class I-II including irritation, acute systemic toxicity, and implantability/cytotoxicity per ISO 10993-5, Biological evaluation of medical devices-part 5: Tests for in vivo cytotoxicity, and sensitization per ISO 10993-10, Biological evaluation of medical devices-Part 10: Tests for irritation and skin sensitization. It is the responsibility of the customer to determine that the use of the fusing and detailing agents and powder is safe and technically suitable to the intended applications and consistent with the relevant regulatory requirements including FDA requirements applicable to the customer’s final product. For more information, see the compatibility certificate issued to (Class I-II) and hcppa.com/compatibility SurveyedFlyer.pdf.  
7. Based on internal testing and public data for solutions on market as of April, 2016. Cost analysis based on: standard solution configuration and the powder reusability ratio recommended by manufacturer, and printing under certain build conditions and part geometries.  
8. Based on internal testing and public data for solutions on market as of April, 2016. Cost analysis based on: standard solution configuration, suppliers, price, and maintenance costs recommended by manufacturer. Cost criteria: printing 1 full build chambers of parts per day 5 days per week, over 1 year of 30 cm (part A) at 10% packing density on 1 HP printer made using HP 3D High Reusability PA 12 material, and the powder reusability ratio recommended by manufacturer and printing under certain build conditions and part geometries.  
9. Compared to selective laser sintering (SLS) and fused deposition modeling (FDM) technologies, HP Multi Jet Fusion technology can reduce the overall energy requirements needed to attain full fusing and reduce the system requirements for large, vacuum-sealed vessels. In addition, HP Multi Jet Fusion technology uses less heating power than SLS systems for better material properties, and material reusability, minimizing waste.  
10. This product is only available in Europe and in the Americas. HP does not design, manufacture or sell the Gehna product or provide any warranty for the Gehna products. HP believes that the information herein is correct based on the current state of scientific knowledge and at the date of its publication, however, to the maximum extent permitted by law HP EXPRESSLY DISCLAIMS ALL WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE EVEN IF HP IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION PROVIDED. Except to the extent that it is otherwise prohibited by law, HP shall not be liable for technical or editorial errors or omissions, and damages or losses of any kind that results from the use of reliance or upon this information, which it is subject to change without notice. Recipients of the Gehna product are responsible for determining the suitability of Gehna products with HP Jet Fusion 3D products, ensuring compliance with applicable laws and regulations, and being aware that other safety or performance considerations may arise when using, handling or storing the product.  
11. Based on using HP 3D High Reusability PA 12, 0.11-mm (0.0043-in) layer thickness and 8.45 sec/layer.  
12. The HP Jet Fusion 3D Printing Solution should be connected to the HP Cloud in order to enable the correct functioning of the printer and to receive better support.  
13. Average power for HP 3D High Reusability PA 11 and PA 12 in Balanced print mode.  
14. This product number is sold directly by HP.  
15. Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.  
17. Only compatible with the HP Jet Fusion 5210 Pro 3D Printing Solution.  
18. Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.  
19. Only compatible with the HP Jet Fusion 5210 Pro 3D Printing Solution.  
20. Printing supplies eligible for recycling vary by printer. Visit [hp.com/recycle](http://hp.com/recycle) to see how to participate and for HP Planet Partners program availability; program may not be available in your area. Where this program is not available, and for other consumables not included in the program, consult your local waste authorities on appropriate disposal.