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

Learn more at hp.com/go/3DPrinter5200

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.¹
• Address sustainability, with lower carbon footprint parts,² and HP 3D materials offering industry-leading reusability.¹

Software solutions

<table>
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<tr>
<th>HP 3D Process Control</th>
<th>HP 3D Center</th>
<th>HP SmartStream 3D Build Manager</th>
<th>Integration with industry-leading software partners</th>
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<td>Achieve dimensional accuracy and repeatability that rivals industrial tooling—faster.</td>
<td>Track, manage, and optimize your 3D operations with software that provides remote, real-time monitoring; preventive notifications; and historical data analysis.</td>
<td>Quickly and easily prepare your jobs for printing with all the elements you need.</td>
<td>Autodesk® Netfabb® with HP Workspace</td>
</tr>
<tr>
<td>Flexibility and agility—without time- and labor-intensive injection molding fine-tuning steps.</td>
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<td>Siemens NX AM for HP Multi Jet Fusion technology</td>
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</table>

¹ HP 3D High Reusability PA 11 and PA 12 materials are available today, and more in the future.² Lower carbon footprint parts are available today.
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.

HP 3D High Reusability PA 11—ductile, quality parts

Produce functional parts with impact resistance and ductility. This thermoplastic material, made from renewable sources, provides optimal mechanical properties and consistent performance at industry-leading surplus powder reusability.

Statements: Biocompatibility, 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 ownership and produce strong, functional, detailed complex parts with HP 3D High Reusability PA 12, a robust thermoplastic that enables industry-leading surplus powder reusability.

Statements: Biocompatibility, 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

HP 3D High Reusability PP enabled by BASF—chemical resistant, weldable, low moisture absorption, functional parts

Produce genuine, functional PP parts with excellent chemical resistance, low moisture absorption, and outstanding welding capabilities ideal for a wide range of automotive, industrial, and consumer goods applications.

Statements: REACH and 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

Materials Certified for HP Jet Fusion 3D Printing

BASF Ultrasint® TPU01—flexible, functional parts. Produce flexible TPU parts, with a high throughput, excellent quality and level of detail, and suitable for a wide range of applications.

Printed with HP 3D High Reusability PP enabled by BASF

Data courtesy of Prometal3D

BASF Ultrasint® TPUD—flexible, functional parts. Produce flexible TPU parts, with a high throughput, excellent quality and level of detail, and suitable for a wide range of applications.

Printed with HP 3D High Reusability PP enabled by BASF

Data courtesy of Prometal3D
Working together through your digital manufacturing journey—HP Jet Fusion 3D Solution Services

Whether you’re just starting out or you’re in full production, we’re here to help you successfully navigate the digital manufacturing journey with a world-class service experience dedicated to making digital manufacturing—and new growth—a reality for your business.

HP 3D Printing Prepare Services
From preprocessing your site to installing your equipment and printing your first parts to helping you explore the full potential of HP 3D Printing, we’ll get you started on your digital manufacturing journey with HP 3D Printing Prepare Services.

HP 3D Printing Care Services
Your uptime is our top priority. From preventive maintenance to proactive, big-data driven analytics, we’re looking for every opportunity to help you improve the return on your investment through HP 3D Printing Care Services.

HP 3D Printing Grow Services
Accelerate your transformation with HP 3D Printing Grow Services, designed to help you develop your digital manufacturing journey, move into new materials, applications, and use cases, and further optimize your manufacturing processes.

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HP 3D Printing Grow Services
Accelerate your transformation with HP 3D Printing Grow Services, designed to help you develop your digital manufacturing journey, move into new materials, applications, and use cases, and further optimize your manufacturing processes.

HP 3D Professional Services help organizations identify viable strategic opportunities, optimize design for breakthrough applications, and streamline manufacturing processes to enable mass customization and scale production.

HP recommended post-processing solutions

Girbau DY130 Dyeing Solution

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.

For more information, visit: coloringsystem.girbau.com
Accelerate your move to HP 3D Printing with HP Integrated Financial Solutions

Leverage the latest technology to help accelerate your growth, profitability, and competitiveness. Partner with HP Integrated Financial Solutions to help accelerate your time to value. Enjoy the flexibility to meet both your technology and financial plans while allocating your cash to other priorities.

Financing options include a low per-month payment for 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

Learn more at hp.com/go/3DIntegratedFinancialSolutions

In this business climate, there are many advantages to a “pay-as-you-go” business model when the focus is on outcomes. Capital expenses are transformed into operating expenses, spread over time. Paying on a usage basis puts the focus on your business results rather than equipment or transactions.

HP Jet Fusion 3D Printing Solutions are reinventing design and manufacturing. From accelerating design cycles, to printing full-color functional parts, to running efficient volume production with repeatable part quality.

HP 3D as a Service (HP 3DaaS)13—Gain new levels of cost predictability with the flexibility to scale your business as you grow

In this business climate, there are many advantages to a “pay-as-you-go” business model when the focus is on outcomes. Capital expenses are transformed into operating expenses, spread over time. Paying on a usage basis puts the focus on your business results rather than equipment or transactions.

HP Jet Fusion 3D Printing Solutions are reinventing design and manufacturing. From accelerating design cycles, to printing full-color functional parts, to running efficient volume production with repeatable part quality.

Speed up your digital manufacturing transformation with HP 3DaaS:

- **Predictable**: usage-based price per successful build15 gives you certainty around your variable costs
- **Convenient**: gain new operational efficiencies by simplifying supplies ordering and inventory management

HP 3DaaS Base includes:

- Automatic replenishment of HP 3D supplies
- HP 3D Printing Care Services, including remote and onsite support
- Online dashboard for easy, convenient tracking of billing and usage

Financing and service offerings available through Hewlett-Packard Financial Services Company and its subsidiaries and affiliates (collectively HPFSC) in certain countries and is subject to credit approval and execution of standard HPFSC documentation. Rates and terms are based on customer’s credit rating, offering types, services and/or equipment type and options. Not all customers may qualify. Not all services or offers are available in all countries. Other restrictions may apply. HPFSC reserves the right to change or cancel this program at any time without notice.

Learn more at hp.com/jp/g/jp/3DaaS

Contact your local HP sales representative for more information or learn more at hp.com/jp/g/jp/3DaaS

Data courtesy of Materialise
**Technical specifications**

**HP Jet Fusion 5200 Series 3D Printers**

**Power**
- Consumption: 2.6 kW (typical)
- Requirements: 230 V (line-to-line) 19/20 Hz 14 A max, 50 Hz
- Input voltage: single phase 200-240 V (line-to-line)
- Frequency: 50/60 Hz
- Tri-phasing: yes

**Software**
- Operating system: Windows 10
- Required software: Autodesk® Netfabb®, HP Workstream 3D

**Dimensions**
- (w x d x h): 3700 x 3700 x 2500 mm (117.7 x 117.6 x 98.4 in)
- Shipping: 3190 x 2434 x 2500 mm (125.6 x 95.8 x 99 in)

**Weight**
- Processing station: 485 kg (1069 lb)
- Shipping: 620 kg (1366 lb)

**Certifications**
- UL 2011, UL508A, NFPA 79, C22.2 No. 14-13 compliant; United States and Canada (UL listed); EU (LVD compliant; EN 60950-1, EN 60204-1, EN 11201-1, EN 11201-10 and EN 11013)

**Warranty**
- One year limited hardware warranty

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**Ordering information**

**Printers**
- HP Jet Fusion 5200 Series 3D Printers
  - 3FW75A: HP Jet Fusion 5200 3D Printer
  - 3FW77A: HP Jet Fusion 5200 3D Printer System
  - 4KQ11A: HP Jet Fusion 5200 3D Automatic External Tank Starter Kit
  - MOPS4B: HP Jet Fusion 52004200 Series 3D External Tank 5-units Bundle

**Accessories**
- HP Jet Fusion 5200 Series 3D Printers
  - 5ZR22A: HP Jet Fusion 5200 3D Natural Cooling Unit
  - 5ZR21A: HP Jet Fusion 5200 3D Semaphore
  - 5ZR23A: HP Jet Fusion 5201 3D Printer Installation Kit
  - 5ZR20A: HP Jet Fusion 5210 3D Processing Station Installation Kit

**Recommended accessories**
- 3D Printing Solutions
  - HP 3D600 Cleaning Roll
  - HP 3D600 Cleaning Roll Starter Kit
  - HP 3D600 Cleaning Roll 5-units Bundle

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**Material**

- HP 3D Printing Materials
  - 300L (100 kg)
  - 700 L (700 kg)
  - 130 L (130 kg)
  - 500 L (500 kg)

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**Other supplies**

- HP Customer Self-Repair Uptime Kit Service for HP Jet Fusion 5200/4200 Series 3D Printing

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**Features**
- Automated mixing and loading with ultrasonic, cleaning and accessiblesevenments semi-manual unpacking, high-temperature unpacking, automated external storage tank (optional)
- Trained self-service deep-cleaning; optional cleaning station unit

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**firmware**

- Intel® Core™ i7 7770 Processor
- 32 GB DDR4 Memory
- 1TB HDD SED (AES-256 encrypted)
- 1TB SDD SED (AES-256 encrypted), TGC-OPAL 2.01 compliant
- Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL

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**Safety**
- UL Long Term Consumable Cleaning Kit Service for HP Jet Fusion 5200 Series 3D Printing/Processing Station/Build Unit

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**Environmental statement**
- REACH
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 about HP Multi Jet Fusion technology at: hp.com/go/3DPrinting

For more information, please visit: hp.com/go/3DPrinter5200

1. Industry-leading surpass powder reusability based on using HP 3D High Reusability PA 11 and 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 D4546 and using a 3D scanner. Testing monitored using statistical process controls.

2. Low cost footprint per printed HP Multi Jet Fusion part for runs of 1500 or less when compared to injection molded parts. Data comes from an ISO 14040/44 compliant and peer reviewed LCA study, January 2018.

3. Testing according to ASTM D638, ASTM D256, and ASTM D4546 using HPD at different loads, with a 3D scanner for dimensional accuracy. Testing monitored using statistical process controls.

4. HP 3D High Reusability PA 11 powder is made with 100% renewable carbon content derived from carbohydrates, grown without GMOs in arid areas that do not compete with food crops. HP 3D High Reusability PA 11 is made using renewable sources, and may be made together with certain non-renewable sources. A renewable resource is a natural organic resource that can be renewed at the same speed in which it is consumed. Renewable stands for the number of carbon atoms in the chain from renewable sources (in this case, castor seed) according to ASTM D6866.

5. For more information, see: tsa.gov/airportauthority/hp-3Dprinter/hp-3Dprinter technology at: hp.com/go/3DPrinter5200 and hp.com/go/3DPrinter5200

6. Based on internal testing and public data on solutions market as of April 2016. Cost analysis based on standard solution configuration price, supplies price, and maintenance costs recommended by manufacturer. Cost criteria: printing 1.4 full build chambers of parts per day/5 days per week over 1 year of 30 cm³ parts at 10% packing density on fast printing 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.

7. 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 ovens. In addition, HP Multi Jet Fusion technology uses less holding power than SLS systems for better material properties and material reusability, minimizing waste.

8. HP Multi Jet Fusion Printing Solutions using HP 3D High Reusability PA 12 Glass Beads provide up to 70% 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.

9. For HP 3D High Reusability PP enabled by BASF, based on internal HP testing, May 2020, with tests for mechanical property retention, dimensional stability, and weight changes after 7- and 30-day immersion with acids, bases, organic solvents, and aqueous solutions. For HP 3D High Reusability PA 11 and PA 12, based on internal HP testing, June 2017. Tested with diluted alkalies, concentrated alkalies, chlorine salts, alcohol, water, etc., ketones, aliphatic hydrocarbons, hydroxyacids, toluene, and DDT 3 brake fluid. For BASF Ultrasint® TPU01, based on testing by BASF, April 2020, according to ASTM D471 for select IRM oils and Fuel A.

10. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Please recycle printing hardware and eligible printing supplies.

11. Connect with an HP 3D Printing expert or sign up for the latest news about HP Jet Fusion 3D Printing: hp.com/go/3DContactus

12. This product is only available in Europe and in the Americas. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau products. HP believes that the information herein is correct based on the current state of scientific knowledge and as the date of its publication, however, to the maximum extent permitted by law, HP EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND 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 exclusion is prevented by law, HP shall not be liable for technical or editorial errors or omissions, contained herein and the information herein is subject to change without notice. HP shall not be liable for damages or losses of any kind or nature that result from the use or reliance upon this information. The HP Jet Fusion 3D Materials have not been designed, manufactured or tested by HP for compliance with legal requirements for 3D printed parts and their uses and recipients are responsible for making their own determination as to the suitability of HP Jet Fusion 3D Materials for their purposes and uses, ensure compliance with applicable laws and regulations, and be aware that other safety or performance considerations may arise when using, handling or storing the product. Based on internal HP testing, March 2020. For testing methodology and results, see: hp.com/go/3Dprintingmaterialswhitepapers. Please consult your local sales representative for more information.

13. Full-color parts applicable only with HP Jet Fusion color 3D printers.

14. Onloaders refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.

15. Speed and performance considerations may arise when using, handling or storing the product.

16. HP 3DAS Base is currently available in the US, Canada, Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and UK. Includes support and maintenance services, supplies and long-term consumables.

17. Full-color parts applicable only with HP Jet Fusion color 3D printers.

18. A successful build is a printed job that ends with the exit code “job_completed_successfully.”

19. 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 offer better support.

20. Average power for HP 3D High Reusability PA 11 and PA 12 in Balanced print mode.

21. Lites refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.

22. Only compatible with the HP Jet Fusion 5210 Pro/5210 D 3D Printing Solutions.

23. Only compatible with the HP Jet Fusion 5210 Pro 3D Printing Solution.

24. Additional material management equipment is required.


26. Compared to manual print retrieval process used by other powder-based technologies.

27. Printing supplies eligible for recycling vary by supply and printer. Visit 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.