# HP Jet Fusion 5200 Series
## 3D Printing Solutions

# HP Jet Fusion 5200 Series 3D Printing Solutions

## Drive new growth and expand into volume production with HP's robust, manufacturing-ready 3D printing solution

Ideal for mid-volume production environments



## Enhanced 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 with the latest generation of HP Multi Jet Fusion systems.

- Reduce errors, failed jobs, and unplanned downtime with HP 3D Proactive Remote Service that includes service alerts.

- Uniquely predictable and consistent print time for any type of part—no support structures needed.

## Breakthrough productivity with integrated software, materials mixing, and unpacking automation

- Best-in-class economics and productivity (over 160,000 cm³ per day) for production environments.

- Streamlined workflow, improved process development, optimized job efficiency, and enhanced production efficiency with a consolidated dashboard that integrates data across industrial management systems.[1]

- Consistent unpacking results through an automatic process with an industrial-grade solution.

- 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.

- Deliver a breadth of applications for various markets with PP, PA 11, PA 12, PA 12 GB, and TPU materials today, and more in the future.

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

Data courtesy of HP - BASF

## Integration with industry-leading software partners

AUTODESK

Dyndrite™

materialise
innovators you can count on

SIEMENS

# HP 3D Software Solutions

| 3D API[1] | HP 3D Center[4] | HP SmartStream 3D Build Manager | HP 3D Process Control[5] | HP Universal Build Manager powered by Dyndrite[6] |
|---|---|---|---|---|
|  |  |  |  |  |
| Streamlined data access and automation across industrial management systems | Dashboard view into production data and remote monitoring for greater efficiency and agility, for production insights and visibility into manufacturing processes | Quickly and easily prepare your jobs for printing with all the elements you need | Dimensional accuracy and repeatability, faster; flexibility and agility—without time-and labor-intensive injection molding fine-tuning steps | Build management software enabling additive manufacturing at scale through automation |

# Expanding 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.[3]

## HP 3D High Reusability PA 11—ductile,[7] quality parts

Produce functional parts with impact resistance and ductility.[7] This thermoplastic material, made from renewable sources,[8] provides optimal mechanical properties and consistent performance at industry-leading surplus powder reusability.[3]

**Statements:[9]** 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 PA 12—strong, low-cost,[10] quality parts

Reduce total cost of ownership[11] 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]

**Statements:[9]** 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

Data courtesy of Fractal

## HP 3D High Reusability PA 12 Glass Beads—stiff, dimensionally stable, quality parts

Produce stiff, functional parts—while achieving up to 70% surplus powder reusability[12]—with this glass bead filled thermoplastic material ideal for applications requiring high stiffness and dimensional stability like enclosures and housings, fixtures and tooling.

**Statements:**[9] REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, UL 94 and UL 746A

Data courtesy of Prometal3D

## HP 3D High Reusability PP enabled by BASF—chemical resistant,[13] weldable, low moisture absorption, functional parts

Produce genuine, functional PP parts with excellent chemical resistance,[13] low moisture absorption, outstanding welding capabilities, and biocompatibility[9] ideal for a wide range of automotive, industrial, consumer goods, and medical applications.

**Statements:**[9] Biocompatibility, REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, Statement of Composition for Toy Applications

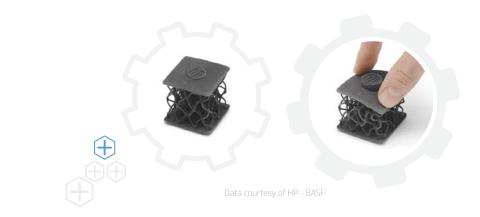Printed with HP 3D High Reusability PP enabled by BASF

## 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. Ideal for parts requiring shock absorption, energy return, and flexibility.

**hp Certified for HP Jet Fusion 3D printers**

Tested and approved solely for compatibility with HP Jet Fusion 3D printers[14]
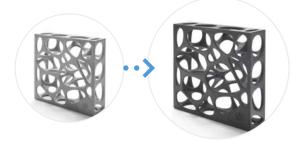
Data courtesy of HP - BASF

## HP 3D Printing materials portfolio selection guide[15]

| | HP 3D HR PA 11 | HP 3D HR PA 12 | HP 3D HR PA 12 GB | HP 3D HR PP enabled by BASF | BASF Ultrasint® TPU01 |
|---|---|---|---|---|---|
| Stiffness | ● | ● | ★ | ■ | ▲ |
| Impact resistance | ● | ■ | ▲ | ■ | ★ |
| Elongation | ● | ■ | ▲ | ■ | ★ |
| Dimensional capability | ● | ★ | ● | ■ | ■ |
| Level of detail | ★ | ● | ● | ■ | ■ |
| Flat part | ■ | ● | ★ | ▲ | ■ |
| Temperature resistance | ▲ | ■ | ● | ■ | ▲ |
| Chemical resistance[13] | ● | ● | n/a | ★ | ■ |
| Low moisture absortion | ▲ | ▲ | ▲ | ★ | ■ |
| Lightweight | ● | ● | ■ | ★ | ▲ |

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

| ★ | ● | ■ | ▲ |
|---|---|---|---|
| Best | Good | Fair | Not recommended |

# HP recommended post-processing solutions

## Girbau DY130 Dyeing Solution[16]

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.[16]





For more information, visit:
coloringsystem.girbau.com

# Working together through your digital manufacturing journey—
# HP 3D Solution Services

Whether you're just starting out or you're in full production, we're here to help you successfully navigate your 3D printing adoption 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 preparing your site to installing and calibrating your equipment and printing your first parts to helping you explore the full potential of HP 3D Printing, we'll help get you started on the right track 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 grow, move into new materials, applications, and use cases, and further optimize your manufacturing processes.

Learn more at
hp.com/go/3DSupport

# HP 3D Professional Services—accelerate your transformation to additive manufacturing (AM)

Learn more at:
hp.com/go/3DProfessionalServices

Learn more at:
hp.com/go/FactoryServices

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.

Data courtesy of Invent Medical

Data courtesy of Addit·ion

## Adopt

Identify new opportunities and advanced design techniques enabled with HP Multi Jet Fusion technology.

## Develop

Look to improve your product positioning and market differentiation through innovation and new application development.
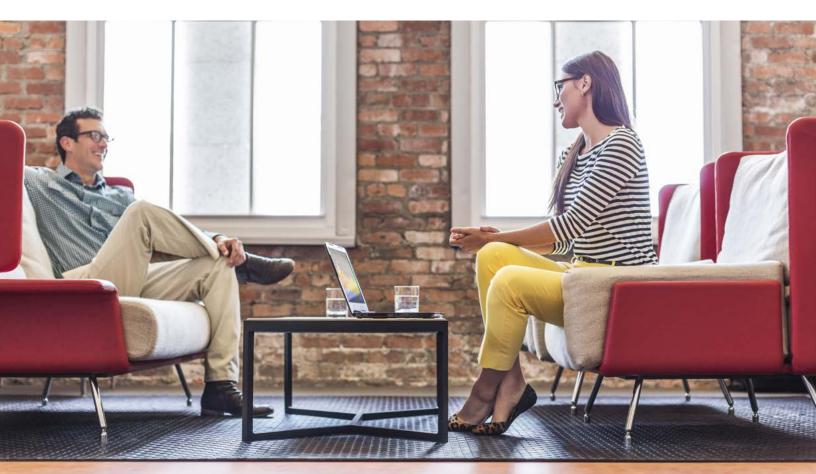
## Manufacture

Set up customized, repeatable, and scalable manufacturing processes with HP 3D Factory Services.

# 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

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/go/3DIntegratedFinancialSolutions

# HP 3D as a Service (HP 3DaaS)[17]— 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 running efficient volume production with repeatable part quality.

Speed up your digital manufacturing transformation with HP 3DaaS:

- **Predictable:** usage-based price per successful build[18] gives you certainty around your variable costs
- **Convenient:** gain new operational efficiencies by simplifying supplies ordering and inventory management
- **Affordable:** avoid up-front investment—and help align your costs directly with your revenue by paying monthly[19]

HP 3DaaS Base includes:

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

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



Data courtesy of Materialise

# Technical specifications

## HP Jet Fusion 5200 Series 3D Printers

| | | |
|---|---|---|
| Printer performance | Technology | HP Multi Jet Fusion technology |
| | Effective building volume | 380 x 284 x 380 mm (15 x 11.2 x 15 in) |
| | Building speed[20] | Up to 5058 cm³/hr (309 in³/hr) |
| | Layer thickness | 0.08 mm (0.003 in) |
| | Job processing resolution (x, y) | 1200 dpi |
| | Print resolution (x, y) | 1200 dpi |
| Dimensions (w x d x h) | Printer | 2210 x 1268 x 1804 mm (87 x 50 x 71 in) |
| | Shipping | 2300 x 1325 x 2027 mm (91 x 52 x 80 in) |
| | Operating area | 3700 x 3700 x 2500 mm (146 x 146 x 99 in) |
| Weight | Printer | 880 kg (1940 lb) |
| | Build unit | 140.5 kg (309.7 lb) |
| | Shipping | 1037.5 kg (2287 lb) |
| Network[21] | | Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL |
| Processor and memory | Processor | Intel® Core™ i7 7770 (3.6 GHz, up to 4.2 GHz) |
| | Memory | 32 GB DDR4 |
| Hard disk | | 1TB HDD SED (AES-256 encrypted) |
| | | 1TB SDD SED (AES-256 encrypted), TGC-OPAL 2.01 compliant |
| Software | | HP SmartStream 3D Build Manager, HP SmartStream 3D Command Center |
| | Compatible software | HP 3D API,[1] HP 3D Center,[4] HP 3D Process Control,[5] HP Universal Build Manager powered by Dyndrite[6] |
| | Supported file formats | 3MF, STL, OBJ, and VRML (v2.0) |
| | Certified third-party software | Autodesk® Netfabb® with HP Work-space, Materialise Build Processor for HP Multi Jet Fusion technology, Siemens NX AM for HP Multi Jet Fusion technology |
| Power | Consumption | 12 kw[22] |
| | Requirements | 380-415 V (line-to-line), 50 A max, 50/60 Hz 200-240 V (line-to-line), 80 A max, 50/60 Hz |
| Certifications and statement | Safety | IEC 60950-1+A1+A2 compliant; United States and Canada (UL listed); EU (LVD and MD compliant, EN 60950-1, EN 12100-1, EN 60204-1, and EN 1010) |
| | Electromagnetic | Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), Korea (KCC) |
| | Environmental statement | REACH |
| Warranty & service coverage included | | One-year limited hardware warranty |

## HP Jet Fusion 5200 Series 3D Processing Stations

| | | |
|---|---|---|
| Features | | Automated mixing and loading with ultrasonic sieving and accessible sieve mesh; semi-manual unpacking; high-temperature unpacking; automated external storage tank; optional trained self-service deep-cleaning; optional cooling unit |
| Dimensions (w x d x h) | Processing station | 2990 x 934 x 2400 mm (117.7 x 36.8 x 94.5 in) |
| | Shipping | 2389 x 1176 x 2182 mm (94 x 46.3 x 85.9 in) |
| | Operating area | 3190 x 2434 x 2500 mm (125.6 x 95.8 x 99 in) |
| Weight | Processing station | 485 kg (1069 lb) |
| | Loaded | 724 kg (1596 lb) |
| | Shipping | 620 kg (1366 lb) |
| Power | Consumption | 2.6 kW (typical) |
| | Requirements | Input voltage single phase 200-240 V (line-to-line) 19 A max, 50/60 Hz (line-to-neutral) 14 A max, 50 Hz |
| Certifications and statement | Safety | UL 2011, UL508A, NFPA 70/NFPA 79, C22.2 NO. 14-13 compliant; United States and Canada (UL listed); EU (MD compliant, EN 60204-1, EN 12100-1, EN 1127-1, EN-ISO 11201 and EN 1010) |
| | Electromagnetic | Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), Korea (KCC) |
| | Environmental statement | REACH |
| Warranty & service coverage included | | One-year limited hardware warranty |

# Ordering information

| Category | Part | Description |
|---|---|---|
| Printer | 3FW25B | HP Jet Fusion 5200 3D Printer |
| Accessories | 3FW27A | HP Jet Fusion 5200 3D Processing Station |
| | 3FW29A | HP Jet Fusion 5200 3D Build Unit |
| | 2W883A | HP Jet Fusion 5200 Series 3D Automatic Unpacking Station |
| | 2M7W6A | HP Jet Fusion 5200 Series 3D Automatic External Tank |
| | 4QG11A | 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 Unit 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 Processing Station Installation Kit |
| | 5ZR24A | HP Jet Fusion 5210 Pro 3D Processing Station Installation Kit |
| | 3WL35A | HP Jet Fusion 5200/4200 Series 3D Material Unloading Kit[23] |
| | 3FW24A | HP Jet Fusion 5200/4200 Series 3D Material Loading 3-units Bundle[23] |
| | UB8N4E | HP 3D Long Term Consumable Cleaning Kit Service for HP Jet Fusion 5200 Series 3D Processing Station/Build Unit |
| | HP OfficeJet Pro 7740 Wide Format All-in-One Printer | For more information on availability in your region, please check with your local HP Amplify 3D Printing Specialist |
| Recommended third-party accessories | Hovmand Forklift 5200 | Please consult with your local HP Amplify 3D Printing Specialist |
| | Girbau DY130 Dyeing Solution[16] | Please consult with your local HP Amplify 3D Printing Specialist |
| Original HP printheads | F9K08A | HP 3D600 Printhead |
| HP 3D long-term consumables | 8VJ68A | HP Jet Fusion 5200/4200 Series 3D Vacuum Pump Filter |
| | 2X0E1A | HP Jet Fusion 5200 Series 3D Automatic Unpacking Station E-cabinet Fan Filter |
| | 2X0E2A | HP Jet Fusion 5200 Series 3D Automatic Unpacking Station Pneumatic Filter |
| | 2X0E3A | HP Jet Fusion 5200 Series 3D Automatic Unpacking Station Top Lid Filter |

| Category | Part | Description |
|---|---|---|
| Original HP agents | V1Q63A | HP 3D700 5L Fusing Agent |
| | V1Q64A | HP 3D700 5L Detailing Agent |
| Other supplies | V1Q66A | HP 3D600 Cleaning Roll |
| Original HP 3D high reusability materials[24] | 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 Production Material 300L (130 kg)[25] |
| | V1R20A | HP 3D High Reusability PA 12 1400L (600 kg)[23,26,27] |
| | 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 Production Material 300L (140 kg)[25] |
| | V1R24A | HP 3D High Reusability PA 11 1700L (750 kg)[23,26,27] |
| | V1R11A | HP 3D High Reusability PA 12 Glass Beads 30L (15 kg) |
| | V1R22A | HP 3D High Reusability PA 12 Glass Beads 300L (150 kg) |
| | V1R35A | HP 3D High Reusability PA 12 Glass Beads Production Material 300L (150 kg)[25] |
| | V1R23A | HP 3D High Reusability PA 12 Glass Beads 1400L (700 kg)[23,26,27] |
| | V1R28A | HP 3D High Reusability PP enabled by BASF 300L (100 kg) |
| | V1R37A | HP 3D High Reusability PP enabled by BASF Production Material 300L (100 kg)[25] |
| Materials Certified for HP Jet Fusion 3D Printing[14] | | 300070 BASF Ultrasint® TPU01 30L (15 kg) 300071 BASF Ultrasint® TPU01 300L (150 kg) 300072 BASF Ultrasint® TPU01 1000L (500 kg)[26] |
| HP Jet Fusion 3D Solution Services[28] | UB4P2E | HP Digital Manufacturing Site Readiness Assessment Tier 1 Service for HP Jet Fusion 5200/4200 Series 3D Printing Solutions |
| | UB6Y0E | HP 3D Ready-to-Print Service for HP Jet Fusion 5200 Series 3D Printing Solutions |
| | UB4P0E | HP Digital Manufacturing Tech Transition Service for HP Jet Fusion 5200/4200 Series 3D Printing Solutions |
| | UB9V8E | HP 3 Year NBD* On-site HW Support with DMR** Production Care for HP Jet Fusion 5200/4200 Series 3D Printer |
| | UB9X6E | HP 3 Year NBD* On-site HW Support Production Care for HP Jet Fusion 5200/4200 Series 3D Build Unit |
| * Next Business Day **Defective Media Retention | UB7R3E | HP 3 Year NBD* On-site HW Support Foundation and Production Care for HP Jet Fusion 5200/4200 Series 3D Processing Station |
| | UB7H6E | HP Customer Self-Repair Uptime Kit Service for HP Jet Fusion 5200 Series 3D Printers |

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TSI-100802-2014-1

2020 R&D 100 WINNER

SPARK DESIGN AWARDS — PLATINUM WINNER

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

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/3DPrint

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

1. Supported industrial management systems: 3D Control Systems, AMFG, LINK3D, Siemens NX AM, Siemens Opcenter. Access to additional data modules available only for the HP Jet Fusion 5200 Series 3D Printing Solution. Additional purchases required.
2. 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 an ISO 14040/44 compliant and peer reviewed LCA study, January 2018.
3. Industry-leading surplus 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 D648 and using a 3D scanner. Testing monitored using statistical process controls.
4. Compatible software. Additional purchase required.
5. This software is sold as an HP 3D Solution Service. For more information visit https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7931EEW.
6. Compatible software. Additional purchase required.
7. Testing according to ASTM D638, ASTM D256, and ASTM D648 using HDT at different loads with a 3D scanner for dimensional accuracy. Testing monitored using statistical process controls.
8. HP 3D High Reusability PA 11 powder is made with 100% renewable carbon content derived from castor plants 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 coming from renewable sources (in this case, castor seeds) according to ASTM D6866.
9. For more information, see hp.com/go/statementsPA11, hp.com/go/statementsPA12, hp.com/go/statementsPA12GB, and hp.com/go/statementsPP.
10. Based on internal testing and public data for solutions on 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 print mode 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.
11. 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 heating power than SLS systems for better material properties and material reuse rates, minimizing waste.
12. HP Jet Fusion 3D 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.
13. 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 change after 7- and 30-day immersion with acids, bases, organic solvents, and aqueous solutions. Due to the material characteristics, extra tuning is required in part design and printing, compared to other rigid HP 3D Printing materials. 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, ester, ethers, ketones, aliphatic hydrocarbons, unleaded petrol, motor oil, aromatic hydrocarbons, toluene, and DOT 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.
14. Nothing herein should be construed as constituting an additional HP warranty. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services and/or in a written agreement between you and HP for such HP products and services. 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 of 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 material.
15. Based on internal HP testing, March 2020. For testing methodology and results, see hp.com/go/3Dprintingmaterialswhitepapers. Please consult your local HP sales representative for more information.
16. 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, and damages or losses of any kind or nature that result from the use of or reliance upon this information, which is subject to change without notice. Recipients of the Girbau product are responsible for determining the suitability of Girbau 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.
17. HP 3DaaS 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.
18. A successful build is a printed job that ends with the exit code "job_completed_successfully."
19. HP 3DaaS Base defined usage-based price applies for a one-year term.
20. Based on using HP 3D High Reusability PA 12, 0.11-mm (0.0043-in) layer thickness and 8.45 sec/layer.
21. 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.
22. Average power for HP 3D High Reusabiility PA 11 and PA 12 in Balanced print mode.
23. This product number is sold directly by HP.
24. Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.
25. Only compatible with the HP Jet Fusion 5210 Pro/5210 3D Printing Solutions.
26. Only compatible with the HP Jet Fusion 5210 Pro 3D Printing Solution.
27. Additional material management equipment is required.
28. Should the HP Jet Fusion 3D Printer or Printing Solution alert you that preventive maintenance is required, you must purchase the kit separately if you do not have one or if the kit provided was already used. If preventive maintenance is not completed in a timely manner, HP may request that you take corrective actions, HP may charge any extra costs due to the lack of maintenance. Required only if under HP 3D Foundation Care.

This is an HP Indigo digital print.