# HP Jet Fusion 5200 Series
# 3D Printing Solutions

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

## Software solutions

| HP 3D Process Control | HP 3D Center | HP SmartStream 3D Build Manager | Integration with industry-leading software partners | | |
|---|---|---|---|---|---|
| ✓ Achieve dimensional accuracy and repeatability that rivals industrial tooling—faster.  ✓ Flexibility and agility—without time- and labor-intensive injection molding fine-tuning steps. | ✓ Track, manage, and optimize your 3D operations with software that provides remote, real-time monitoring; preventive notifications; and historical data analysis. | ✓ Quickly and easily prepare your jobs for printing with all the elements you need. | **AUTODESK NETFABB**  Autodesk® Netfabb® with HP Workspace | **materialise** innovators you can count on  Materialise Build Processor for HP Multi Jet Fusion technology | **SIEMENS**  Siemens NX AM for HP Multi Jet Fusion technology |

# 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.[2]

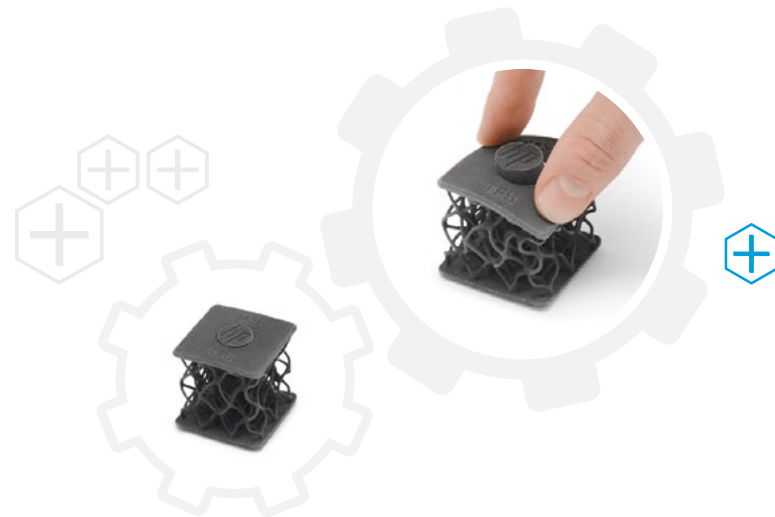## HP 3D High Reusability PA 11—ductile,[4] quality parts

Produce functional parts with impact resistance and ductility.[4] This thermoplastic material, made from renewable sources,[5] provides optimal mechanical properties and consistent performance at industry-leading surplus powder reusability.[2]

**Certifications:** Biocompatability,[6] 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,[7] quality parts

Reduce total cost of ownership[8] and produce strong, functional, detailed complex parts with HP 3D High Reusability PA 12, a robust thermoplastic that enables industry-leading surplus powder reusability.[2]

**Certifications:** Biocompatability,[6] 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.

* TPU material expected general availability end 2019.

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## HP 3D Printing materials portfolio selection guide

| Usage and properties | HP 3D HR PA11 | HP 3D HR PA12 |
|---|---|---|
| Visual aids & presentation models | ● | ● |
| Functional prototyping | ● | ● |
| End-use parts | ● | ● |
| Dimensional stability | ● | ● |
| Functional rigid part (higher stiffness) | ● | ● |
| Ductile part (higher elongation at break) | ● | ● |
| Impact | ● | ● |
| HDT (heat deflection temperature) | ● | ● |
| Medical biocompatibility[6] (USP Class I-VI and US FDA guidance for Intact Skin Surface Devices) | ● | ● |
| Look and feel | ● | ● |
| Powder reusability ratio for stable performance/total cost of ownership (TCO) | ● | ● |

● Excellent  ● Good  ● Fair

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

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# HP recommended post-processing solutions

## Girbau DY130 Dyeing Solution[9]

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.[9]
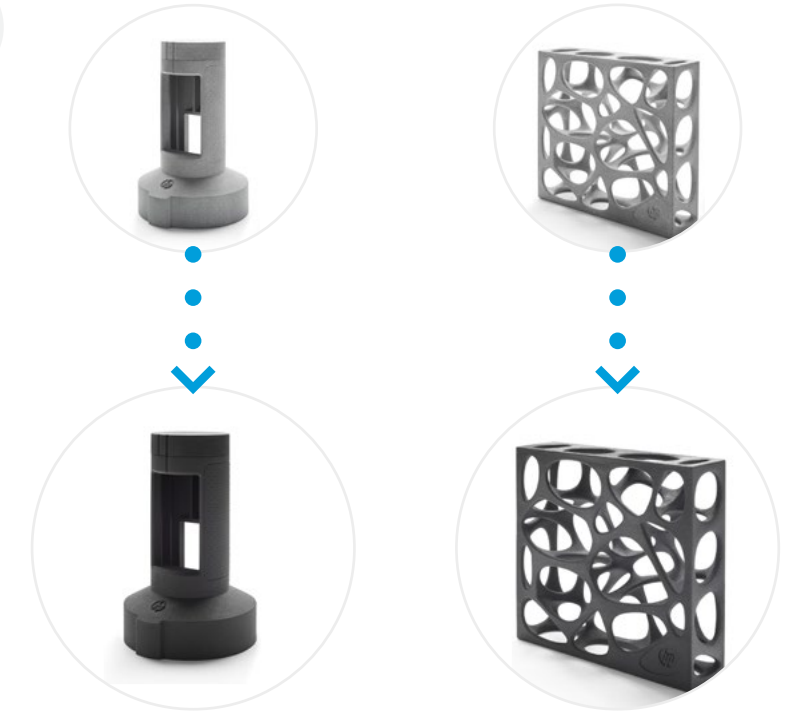
**For more information, visit:**
**coloringsystem.girbau.com**

# 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.



**HP 3D Printing Care Services**
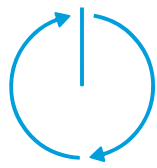
**HP 3D Printing Lifecycle Services**

**HP 3D Printing Training Services**

**HP Digital Manufacturing Productivity Services**

Explore new opportunities to scale production and accelerate growth with expert guidance and support from HP Jet Fusion 3D Solution Services. Maximize uptime, enhance operator knowledge and skill sets through training, and work with HP's productivity experts to achieve your digital manufacturing objectives. Gain expedited access to HP's experts for fast troubleshooting and return to full operating condition in the shortest possible timeframe.

- Set your business up for success with **HP Digital Manufacturing Productivity Services** that evaluate site readiness and provide best practices for production ramp up.
- You're in control with **HP 3D Printing Training Services** that help your staff improve part design, print quality and yield, troubleshooting, and performance.
- Rely on HP experts to perform installations, upgrades, relocations, and more with **HP 3D Printing Lifecycle Services**, so you can focus on your core business.
- Leverage remote and onsite support options through **HP 3D Printing Care Services**. Return your equipment to full operating condition faster with optional four-hour response.



**Learn more at**
**hp.com/go/3DPrinter5200**

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

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

Partner with HP Financial Services 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 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.

**Learn more at**
**hp.com/go/hpfinancialservices**
**hp.com/go/3DPrinter5200**

# 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[10] | 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[11] | | 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 3D Process Control, HP 3D Center, HP SmartStream 3D Build Manager, HP SmartStream 3D Command Center |
| | Supported file formats | 3MF, STL, OBJ, and VRML (v2.0) |
| | Certified third-party software | Autodesk® Netfabb® with HP Workspace, Materialise Build Processor for HP Multi Jet Fusion technology, Siemens NX AM for HP Multi Jet Fusion technology |
| Power | Consumption | 12 kw[12] |
| | 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 |
| Certification | 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 | 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 pase 200-240 V (line-to-line) 19 A max, 50/60 Hz (line-to-neutral) 14 A max, 50 Hz |
| Certification | 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 | REACH |
| Warranty & service coverage included | | One-year limited hardware warranty |

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.

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



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TSI-100802-2014-1


Windows 10 Compatible

# Ordering information

| | | |
|---|---|---|
| **Printer** | 3FW25A | HP Jet Fusion 5200 3D Printer |
| **Accessories** | 3FW27A | HP Jet Fusion 5200 3D Processing Station |
| | 3FW29A | HP Jet Fusion 5200 3D Build Unit |
| | 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[13] |
| | 3FW24A | HP Jet Fusion 5200/4200 Series 3D Material Loading 3-units Bundle[13] |
| | UB8N4E | HP 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 3D Printing Specialist |
| **Recommended third- party accessories** | Hovmand Forklift 5200 | Please consult with your local HP 3D Printing Specialist |
| | Girbau DY130 Dyeing Solution[9] | Please consult with your local HP 3D Printing Specialist |

| | | |
|---|---|---|
| **Original HP printheads** | F9K08A | HP 3D600 Printhead |
| **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[14]** | 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)[15] |
| | V1R20A | HP 3D High Reusability PA 12 1400L (600 kg) [13, 16, 17] |
| | 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)[15] |
| | V1R24A | HP 3D High Reusability PA 11 1700L (750 kg)[13, 16, 17, 18] |
| **Materials Certified for HP Jet Fusion 3D Printing** | BASF Ultrasint™ 3D TPU01[1] Please consult with your local HP 3D Printing Specialist | |
| **HP Jet Fusion 3D Solution Services** | UB6Y0E | HP Ready-to-print Service for HP Jet Fusion 5200 Series 3D Printing Solution |
| | UB8N0E | HP Long Term Consumable Initial Maintenance Kit Service for HP Jet Fusion 5200 Series 3D Printer |
| | UB8N1E | 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 |
| | UB7R3E | 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 |

## Eco Highlights

- HP 3D powders and agents are not classified as health hazards[19]
- Cleaner, more comfortable experience—enclosed printing system, and automatic powder management[19]
- Minimizes waste due to industry-leading reusability of powder[2]
- Take-back program for printheads[20]

Find out more about HP sustainable solutions at hp.com/ecosolutions

\* Next Business Day
\*\* Defective Media Retention