HP Jet Fusion 5200 Series 3D Printing Solutions





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 bestin-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.



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



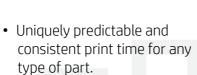








or cancillough economic



 Streamlined workflow and HP's most economical continuous 3D printing with automated materials mixing, enclosed processing station, and natural cooling unit.

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 timeand 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® with HP Workspace



Materialise Build Processor for HP Multi Jet Fusion technology



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.

HP 3D High Reusability PA 11—ductile,³ 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.¹

Certifications: Biocompatibility, ⁵ 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,⁶ quality parts

Reduce total cost of ownership⁷ and produce strong, functional, detailed complex parts with HP 3D High Reusability PA 12, a robust thermoplastic that enables industry-leading surplus powder reusability.¹

Certifications: Biocompatibility, ⁵ 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

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

Produce stiff, functional parts—while achieving up to 70% surplus powder reusability9—with this glass bead filled thermoplastic material ideal for applications requiring high stiffness and dimensional stability like enclosures and housings, fixtures and tooling.

Certifications: REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, UL 94 and UL 746A Certification



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.









HP 3D Printing materials portfolio selection guide

Usage and properties	HP 3D HR PA11	HP 3D HR PA12	HP 3D HR PA 12 GB ⁸	BASF Ultrasint™ TPU01
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 ⁵ (USP Class I-VI and US FDA guidance for Intact Skin Surface Devices)	•	•	•	•
Look and feel	•	•	•	•
			•	
Excellent	Good	Fair	Not recommended	In testing

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

HP recommended post-processing solutions

Girbau DY130 Dyeing Solution¹¹

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.¹¹













For more information, visit: coloringsystem.girbau.com

Maximize your equipment uptime with **HP Jet Fusion 3D Solution 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



- 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 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 the HP Jet Fusion 5200 Series 3D Printing Solution, enabling the flexibility to:

- · Avoid a large up-front payment
- Align payments with revenue by using deferred or step payment
- 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

Learn more at

hp.com/go/3DIntegratedFinancialSolutions

HP 3D as a Service (HP 3DaaS)¹²—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-asyou-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 fullcolor functional parts, ¹³ to running efficient volume production with repeatable part quality.

Speed up your digital manufacturing transformation with HP 3DaaS:

- **Predictable:** usage-based price per successful build¹⁴ 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 monthly¹⁵

HP 3DaaS Base includes:

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

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

Technical specifications

HP Jet Fusion 5200 Series 3D Printers

Printer	Technology	HP Multi Jet Fusion technology	
performance	Effective building volume	380 x 284 x 380 mm (15 x 11.2 x 15 in)	
	Building speed ¹⁶	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 ¹⁷	Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL		
Processor	Processor	Intel® Core™ i7 7770	
and memory		(3.6 GHz, up to 4.2 GHz)	
	Memory	32 GB DDR4	
Hard disk	1TB HDD SED (AES-25		
	1TB SDD SED (AES-256 encrypted), TGC-0PAL 2.01 compliant		
Software		ol, HP 3D Center, HP SmartStream 3D Bu ream 3D Command Center	
	Supported file formats	3MF, STL, OBJ, and VRML (v2.0)	
	Certified third-party software	Autodesk® Netfabb® with HP Workspace, Materialise Build Processo for HP Multi Jet Fusion technology, Siemens NX AM for HP Multi Jet Fusion technology	
Power	Consumption	12 kw ¹⁸	
	Requirements	380-415 V (line-to-line), 50 A max, 50/60 F 200-240 V (line-to-line), 80 A max, 50/60 F	
Certification	Safety	IEC 60950-1+A1+A2 compliant; Unite 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 (ICE EU (EMC Directive), Australia (ACMA), New Zealand (RSM), Korea (KCC)	
	Environmental	REACH	
Warranty & service coverage included	One-year limited hard	lware 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 warra	enty

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/qo/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





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 Ki
	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 Ki
	5ZR24A	HP Jet Fusion 5210 Pro 3D Processing Station Installation Kit
	3WL35A	HP Jet Fusion 5200/4200 Series 3D Material Unloading Kit ¹⁹
	3FW24A	HP Jet Fusion 5200/4200 Series 3D Material Loading 3-units Bundle ¹⁹
	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 Specialis
Recommended third- party accessories	Hovmand Forklift 5200	Please consult with your local HP 3D Printing Specialist
	Girbau DY130 Dyeing Solution ¹¹	Please consult with your local HP 3D Printing Specialist
Original HP printheads	F9K08A	HP 3D600 Printhead

Eco Highlights	;
----------------	---



- HP 3D powders and agents are not classified as health hazards²⁰
- · Cleaner, more comfortable experience—enclosed printing system, and automatic powder management²⁰
- Minimizes waste due to industry-leading reusability of powder
- Take-back program for printheads²

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

og		
	V1Q64A	HP 3D700 5L Detailing Agent
Other supplies	V1Q66A	HP 3D600 Cleaning Roll
Original HP 3D	V1R10A	HP 3D High Reusability PA 12 30L (13 kg)
high reusability materials ²²	V1R16A	HP 3D High Reusability PA 12 300L (130 kg)
	V1R34A	HP 3D High Reusability PA 12 Production Material 300L (130 kg) ²³
	V1R20A	HP 3D High Reusability PA 12 1400L (600 kg) ^{19,24,25}
	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) ²³
	V1R24A	HP 3D High Reusability PA 11 1700L (750 kg) ^{19,24,25,26}
	V1R11A	HP 3D High Reusability PA 12 Glass Beads 30L (15 kg) ⁸
	V1R22A	HP 3D High Reusability PA 12 Glass Beads 300L (150 kg) ⁸
	V1R35A	HP 3D High Reusability PA 12 Glass Beads Production Material 300L (150 kg) ^{8,23}
	V1R23A	HP 3D High Reusability PA 12 Glass Beads 1400L (700 kg) ^{8,19,29}
Materials Certified for HP Jet Fusion 3D Printing ¹⁰	BASF Ultrasint™ TPU01 Please consult with your local HP Partner First 3D Printing Specialist	
HP Jet Fusion 3D Solution Services	UB4P2E	HP Digital Manufacturing Site Readiness Assessment Tier 1 Ser vice for HP Jet Fusion 5200/4200 Series 3D Printing Solutions
	UB6Y0E	HP 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
	UCOC4E	HP 3D Process Control Software Deployment Service for HP Jet Fusion 5200 Series 3D Printers
	UB9V8E	HP 3 Year Next Business Day Onsite HW Support with DMR* Production Care for HP Jet Fusion 5200 3D Printer
	UB9X6E	HP 3 Year Next Business Day Onsite HW Support Production Care for HP Jet Fusion 5200 3D Build Unit
	UB7R3E	HP 3 Year Next Business Day Onsite HW Support Foundation and Production Care for HP Jet Fusion 5200 3D Processing Station
	UB4P5E	HP 1 Year Priority Care for HP Jet Fusion 5200/4200 Series 3D

V1063A HP 3D700 5L Fusing Agent

- responsibility of the customer to determine that its use of the flusing and detailing agents and powder is safe and technically suitable to the intended applications and consistent with the relevant regulation yrequirements founding PBA requirements a planical to the customer's final product. For more information, see <u>Incomption to the products of the products and services. PP believes that the information here in sometic based on the current point of the products and their products of the products and services. PP believes that the information here in some the source of the products and their products of the products and services. PP believes that the information here is controlled to the suitability of the products and their products of the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the suitability. PP and the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and services. PP believes that the information here is controlled to the products and the information here is </u>

Original HP agents

- 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 1.1 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 product or provide any warranty for the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau product. HP does not design, manufacture or sell the Girbau product and the file is publication, however, the meaning manufacture or sell the Girbau product. HP does not design, manufacture or sell the Girbau product. HP does not design, manufacture or sell the Girbau product. HP does not design of the Carbau product. HP does not design on the Carbau Product. HP does not design



© Copyright 2019 HP Development Company, L.P.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein