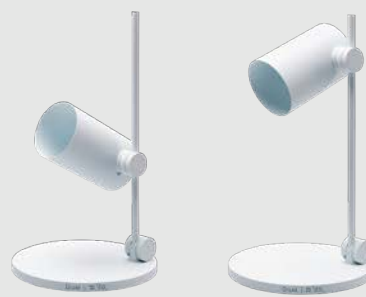# HP Jet Fusion 5420W[19]

3D Printing Solution

Data Courtesy of Invent Medical

Data Courtesy of Castomade

Data Courtesy of Ed Lighting

hp

HP Jet Fusion 5420W[19] 3D Printing Solution

Expand your offering with quality white applications using HP's robust, manufacturing-ready 3D printing solution.

Ideal for final parts production.

Consistent white – part after part

- Achieve white consistency, uniformity, and repeatability from your first part to your last.

- Confidently print white parts that demonstrate outstanding shelf-life stability.

- Gain post-processing freedom with white parts that enable more vibrant colors and better light refraction.

Enhanced manufacturing predictability

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

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

- Streamlined 3D printing workflow with automated materials mixing, enclosed processing station, and natural cooling unit.

Outstanding part quality at the right cost

- Get the best of all worlds with a 3D printing solution that delivers top quality white parts and efficiencies that enable low running costs.

- Achieve outstanding quality—from fine detail and sharp edges to textures—and optimal yield at industrial-level OEE.

- Achieve dimensional accuracy and repeatability that rivals industrial tooling—faster.

- Produce functional parts with best-in-class isotropy with the latest generation of HP Multi Jet Fusion systems.

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

Data Courtesy of Castomade

Data Courtesy of Invent Medical

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HP 3D Software Solutions

HP 3D Software Solutions enables you to reach new levels of operational efficiency, part quality and personalization, dimensional accuracy and repeatability, and overall fleet monitoring and optimization.

HP 3D API[1]	HP 3D Center[4]	HP SmartStream 3D Build Manager	HP Universal Build Manager powered by Dyndrite[4]
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	Build management software enabling additive manufacturing at scale through automation

Integration with industry-leading software partners

HP 3D Printing Material

Expand into new applications and markets with engineering-grade white production parts

HP 3D High Reusability PA 12 W[19] - Engineering-grade white production parts.

Produce complex parts with fine detail, dimensional accuracy, optimal mechanical properties, and with industry-leading surplus powder reusability.[17]

This robust thermoplastic provides the best balance between performance and reusability,[18] for white functional parts across a variety of applications like prosthetics, medical equipment, lighting décor, fashion and wearables, and household appliances.

Data Courtesy of Invent Medical

Data Courtesy of Castomade

Data Courtesy of Ed Lighting

HP 3D Solution Services

HP 3D Solution Services works together with you to aid you through your manufacturing journey. 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 part to help 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

HP 3D Professional Services help accelerate your transformation to additive manufacturing through our expertise, knowledge, and manufacturing experience.

Working together, we focus on four key areas:

Adopt
Product Development
Design parts enabled by HP Multi Jet Fusion technology.

Scale
Manufacture
Set up a scalable production facility

Awareness
Business Case
Identify parts most suited for HP Multi Jet Fusion technology.

Grow
Process Development
Develop process to produce 3D printed parts-repeatable and scalable
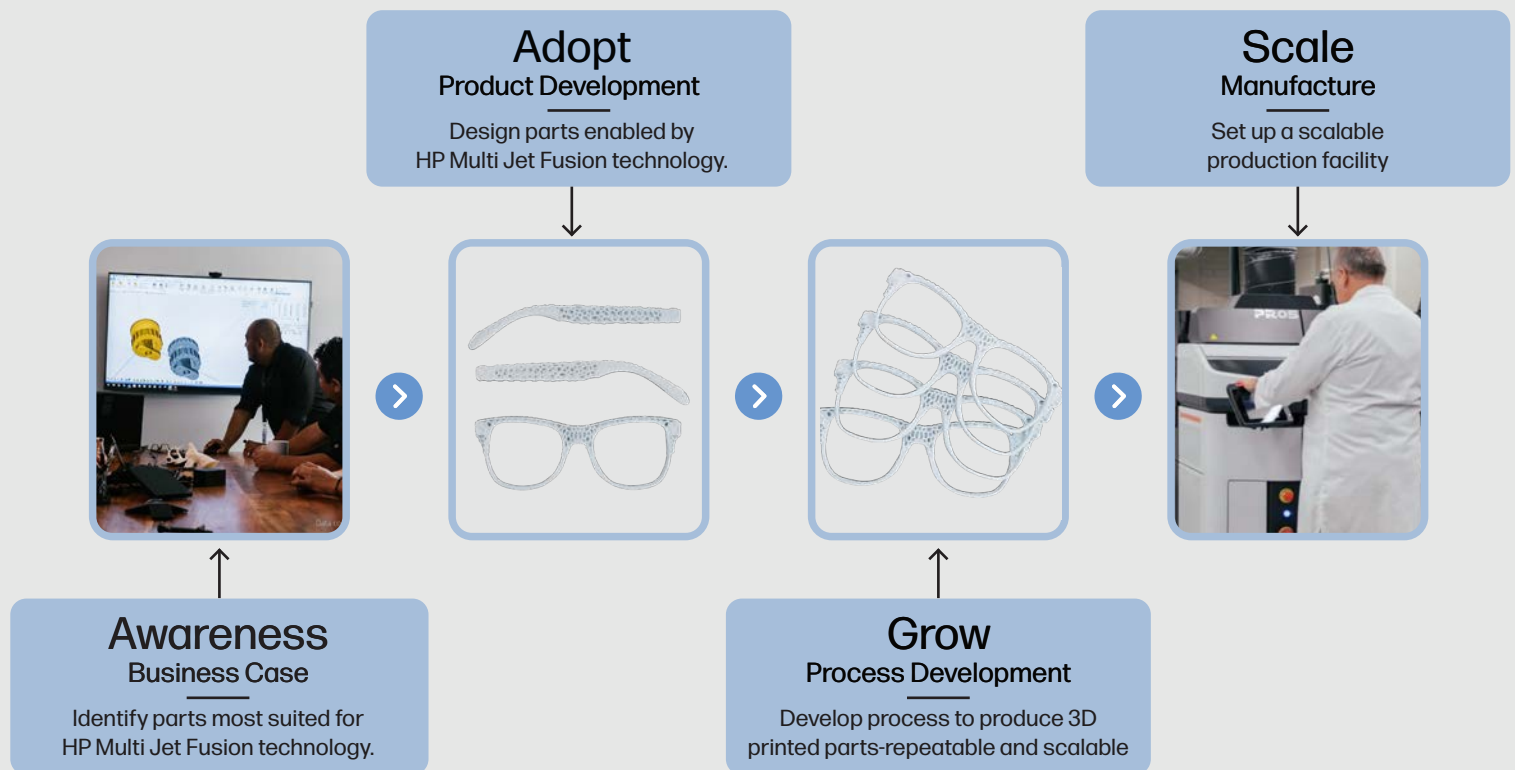
Learn more at: hp.com/go/3DProfessionalServices
Learn more at: hp.com/go/FactoryServices

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 move to HP 3D Printing. 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 5420W[19] 3D Printing Solution, enabling the flexibility to:

● Avoid a large upfront 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 are available through Hewlett-Packard Financial Services Company and its subsidiaries and affiliates (collectively HPFSC) in certain countries and are subject to credit approval and execution of standard HPFSC documentation. Rates and terms are based on the 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)

HP 3DaaS[6] helps you 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. 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[7] 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[8]

HP 3DaaS includes:
- HP 3D Printing Care Services: HP 3D Production Care or HP 3D Shared Care
- HP Supplies and Automatic Replenishment[14]
- HP 3D Preventive Maintenance Kits
- Online dashboard for convenient billing and usage tracking

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

Technical specifications

HP Jet Fusion 5420W[19] 3D Printers

PRINTER PERFORMANCE	Technology	HP Multi Jet Fusion technology
	Effective build volume	380 x 284 x 380 mm (15 x 11.2 x 15 in)
	Building speed[15]	Up to 3380.84 cm³/h (206.31 in³/h)
	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	4100 x 3700 x 2500 mm
WEIGHT	Printer	880 kg (1940 lb)
	Build unit	140.5 kg (309.7 lb)
	Shipping	1037.5 kg (2287 lb)
NETWORK[16]		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 Universal Build Manager powered by Dyndrite[4]
	Supported file formats	3MF, STL, OBJ, and VRML (v2.0)
	Certified third-party software	Autodesk Netfab (NF) and Materialise's magics (MTLS)
POWER	Consumption	12 kW[9]
	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 compliant
WARRANTY & SERVICE COVERAGE INCLUDED		One-year limited hardware warranty
ENVIRONMENTAL SPECIFICATIONS	Temperature during installation	20-30ºC (68-86ºF)
	Operating temperature	20-30ºC (68-86ºF)
	Recommended temperature for best performance	20-30ºC (68-86ºF)
	Storage temperature	-25 to 55ºC (-13 to 131ºF)
	Operating humidity	30-80% without condensation
	Storage humidity	<90% without condensation

HP 3D Printing materials have their own restrictions published in material data sheets.

HP Jet Fusion 5420W[19] 3D Processing Station

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 compliant
WARRANTY & SERVICE COVERAGE INCLUDED		One-year limited hardware warranty
ENVIRONMENTAL SPECIFICATIONS	Temperature during installation	20-30ºC (68-86ºF)
	Operating temperature	20-30ºC (68-86ºF)
	Recommended temperature for best performance	20-30ºC (68-86ºF)
	Storage temperature	-25 to 55ºC (-13 to 131ºF)
	Operating humidity	30-80% without condensation
	Storage humidity	<90% without condensation

HP 3D Printing materials have their own restrictions published in material data sheets.

Ordering information

PRINTER	5C4A2A	HP Jet Fusion 5420W[19] 3D Printer
ACCESSORIES	6Q2U8A	HP Jet Fusion 5420W[19] 3D Processing Station
	6Q2U7A	HP Jet Fusion 5420W[19] 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
	5ZR20A	HP Jet Fusion 5210 3D Processing Station Installation Kit
	3WL35A	HP Jet Fusion 5200/4200 Series 3D Material Unloading Kit[10]
	3FW24A	HP Jet Fusion 5200/4200 Series 3D Material Loading 3-units Bundles[10]
	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 Solutions[11]	Please consult with your local HP Amplify 3D Printing Specialist
ORIGINAL HP PRINTHEADS	6J0B3A	HP 3D710W 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

ORIGINAL HP AGENTS	6J0B5A	HP 3D710W 5L Fusing Agent
	V1Q64A	HP 3D700 5L Detailing Agent
OTHER SUPPLIES	V1Q66A	HP 3D600 Cleaning Roll
ORIGINAL HP 3D HIGH REUSABILITY MATERIALS[12]	6M032A	HP 3D High Reusability PA 12 W[19] 300L (130 kg)[12] Production Material
HP JET FUSION 3D SOLUTION SERVICES[13]	U34YZE	HP 3D Ready-to-Print Service for HP Jet Fusion 5420W[19] 3D Printing Solution
	U34Z0E	HP 3D Installation Service for HP Jet Fusion 5420W[19] 3D Printer
	U34Z1E	HP 3D Installation Service for HP Jet Fusion 5420W[19] 3D Processing Station
	U34Z2E	HP 3D Train-to-Maintain Training Service for HP Jet Fusion 5420W[19] 3D Printing Solution

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
For more information, please visit: hp.com/go/3DPrinter5420W

1. Supported industrial management systems: 3D Control Systems, AMFG, LINK3D . Access to additional data modules available only for the HP Jet Fusion 5420W 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 12 W 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. Compared to selective laser sintering (SLS) technology. Tested according to ASTM D638, ASTM D256, ASTM D790, and ASTM D648. HP Supplies and Automatic Replenishment is currently available in the US, Canada, Austria, Belgium, Check Republic, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Poland, Portugal, Spain, Sweden, the UK, and South Korea. HP 3DaaS Service Only (HP Supplies not included) is available in Mexico, Brazil, Israel, Hungary, Romania, Slovenia, Turkey, United Arab Emirates, Greece, and South Africa (China, Singapore, and Taiwan availability in May 2022).

7. A successful build is a printed job that ends with the exit code "job_completed_successfully."

8. HP 3DaaS defined usage-based price applies for a one-year term.

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

10. This product number is sold directly by HP.

11. This product is only available in Europe and in America. 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.

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

13. 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.

14. HP Supplies and Automatic Replenishment is currently available in the US, Canada, Austria, Belgium, Check Republic, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Poland, Portugal, Spain, Sweden, the UK, and South Korea. HP 3DaaS Service Only (HP Supplies not included) is available in Mexico, Brazil, Israel, Hungary, Romania, Slovenia, Turkey, United Arab Emirates, Greece, and South Africa (China, Singapore, and Taiwan availability in May 2022).

15. Based on using HP 3D High Reusability PA 12 W, 0.09-mm (0.0035-in) layer thickness and 10.01 sec/layer.

16. The HP Jet Fusion 3D Printing Solution should be connected the HP Cloud in order to enable the correct functioning of the printer and to offer better support.

17. Based on using 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.)

18. Compared to selective laser sintering (SLS) technology. Tested according to ASTM D638, ASTM D256, ASTM D790, and ASTM D648.

19. Selected availability from January 2023 in Europe and the US. General availability from April 2023 for the rest of the world.

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