

HP Jet Fusion 3D 4210 Printing Solution

Accelerate your business' transformation to industrial-scale 3D manufacturing



Unlock 3D manufacturing-scale economics with the HP Jet Fusion 3D 4210 Printing Solution. Start producing engineering-grade parts—now at up to 65% lower cost¹ and up to 10 times faster.²

Breakthrough economics for production runs¹

- Achieve up to 65% lower cost-per-part¹—high-volume 3D production is now truly economically viable
- Discover a world of new high-volume applications, made possible with HP Multi Jet Fusion technology
- Best balance between economics and part quality, with industry-leading surplus powder reusability³

Superior,⁴ consistent part quality

- Get excellent dimensional accuracy and fine detail,⁴ enabled by HP's unique Multi-Agent printing process
- Produce truly functional parts with optimal mechanical properties⁵—up to 10 times faster²
- Predictable and reliable final printed parts that match your design⁴
- Access new future materials and applications with the HP Multi Jet Fusion Open Platform

Breakthrough productivity for manufacturing environments

- Produce more parts per day with minimal intervention, continuous printing, and fast cooling⁶
- Streamline your workflow with HP's automated materials mixing and Processing Station
- Cleaner experience with an enclosed Processing Station and materials not classified as hazardous⁷
- Plan production times more accurately and predictably to help increase your overall operational efficiency

Ordering information

HP Jet Fusion 3D 4210 Printing Solution		
Printer	2YG73A	HP Jet Fusion 3D 4210 Printer
Accessories	2YG74A	HP Jet Fusion 3D 4210 Processing Station with Fast Cooling ⁶
	M0P45C	HP Jet Fusion 4210 3D Build Unit
	M0P54B	HP Jet Fusion 3D External Tank 5 units Bundle
	M0P54D	HP Jet Fusion 3D External Tank Starter Kit
	3WL35A	HP Jet Fusion 3D Material Unloading Kit
	3FW24A	HP Jet Fusion 3D Material Loading 3 units Bundle
Recommended accessories	Girbau DY130 Dyeing Solution	Please consult with your local HP Partner First 3D Printing Specialist
Original HP Printheads	F9K08A	HP 3D600 Printhead
	V1Q77A	HP 3D710 Printhead
Original HP Agents	V1Q60A	HP 3D600 3L Fusing Agent
	V1Q61A	HP 3D600 3L Detailing Agent
	V1Q63A	HP 3D700 5L Fusing Agent
	V1Q64A	HP 3D700 5L Detailing Agent
	V1Q78A	HP 3D710 5L Fusing Agent
	V1Q79A	HP 3D710 5L Detailing Agent
Other supplies	V1Q66A	HP 3D600 Cleaning Roll
Original HP 3D materials	V1R10A	HP 3D High Reusability PA 12 30L (13 kg) ⁸
	V1R16A	HP 3D High Reusability PA 12 300L (130 kg) ⁸
	V1R34A	HP 3D High Reusability PA 12 300L (130 kg) Production Material ^{8,9}
	V1R20A	HP 3D High Reusability PA 12 1400L (600 kg) ^{8,9,10}
	V1R12A	HP 3D High Reusability PA 11 30L (14 kg) ^{8,11}
	V1R18A	HP 3D High Reusability PA 11 300L (140 kg) ^{8,11}
	V1R36A	HP 3D High Reusability PA 11 300L (140 kg) Production Material ^{8,11}
	V1R24A	HP 3D High Reusability PA 11 1700L (750 kg) ^{8,10,11}
	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 300L (150 kg) Production Material ^{8,9}
	V1R23A	HP 3D High Reusability PA 12 Glass Beads 1400L (700 kg) ^{8,9,10}
	Certified HP 3D materials	EVNV1R14A
EVNV1R17A		VESTOSINT® 3D Z2773 PA 12 300L (140 kg) ⁸
HP Jet Fusion 3D Solution Services	U9EJ8E	HP Installation w/Introduction to Basic Operation Service for HP Jet Fusion 3D Printer
	U9EL9E	HP Installation w/Introduction to Basic Operation SVC for HP Jet Fusion 3D Processing Station with FC
	U9HQ4E	Ramp up Care Pack for HP Jet Fusion 3D Solution
	1MZ23B	HP 3D Printer Initial Maintenance Kit
	1MZ24A	HP 3D Printer Yearly Maintenance Kit
	1MZ25B	HP 3D Post Processing Maintenance Kit
	U9EK7E	HP Advanced Operation Training Service for Jet Fusion 3D Printer (HP Training Center)
	U9VP8E	HP 3 year NBD* Onsite Hardware Support with DMR**
	U9EQ8E	HP 3 year NBD* Onsite Build Unit Support
	U9EM5E	HP 3 year NBD* Onsite Support for Processing Station with Fast Cooling
	U9VQ3E	HP 3 year Shared HW Support, Parts NBD* with DMR** and 2 onsite visits for Printer
	U9UA2E	HP 3 year Shared Hardware Support, Parts NBD* and 2 onsite visits for Build Unit
	U9UA7E	HP 3 year Shared Hardware Support, Parts NBD* and 2 onsite visits for Processing Station with FC
	U9UB1E	HP Train to Maintain Service for Jet Fusion 3D Printer***
	U9ZS9E	HP Uptime Kit for Jet Fusion 3D Printer***
	U9ZT1E	HP Uptime Kit for Jet Fusion 3D Processing Station***
	U9ZT0E	HP Uptime Kit for Jet Fusion 3D Build Unit***
	U9ZN5E	HP Bulk Enablement Upgrade Service

* Next Business Day

** Defective Media Retention

*** This is only for Shared Hardware Support Services

Technical specifications

HP Jet Fusion 3D 4210 Printer

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	4115 cm ³ /hr (251 in ³ /hr) ¹²
	Layer thickness	0.08 mm (0.003 in)
Dimensions (w x d x h)	Printer	2210 x 1200 x 1448 mm (87 x 47 x 57 in)
	Shipping	2300 x 1325 x 2068 mm (91 x 52 x 81 in)
	Operating area	3700 x 3700 x 2500 mm (146 x 146 x 99 in)
	Weight	Printer 750 kg (1653 lb) Shipping 945 kg (2083 lb)
Network¹³	Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL	
	Hard disk HDD 1TB (AES-256 encrypted, disk wipe DoD 5520M) & SSD 500GB (AES-256 encrypted)	
Software	Included software	HP SmartStream 3D Build Manager, HP SmartStream 3D Command Center
	Supported file formats	3MF, STL
	Certified third-party software	Autodesk® Netfabb® Engine for HP, Materialise Magics with Materialise Build Processor for HP Multi Jet Fusion, Siemens NX AM for HP Multi Jet Fusion
Power	Consumption	9 to 11 kW (typical)
	Requirements	Input voltage three phase 380-415 V (line-to-line), 30 A max, 50/60 Hz / 200-240 V (line-to-line), 48 A max, 50/60Hz
Certification	Safety	IEC 60950-1+A1+A2 compliant; United States and Canada (UL listed); EU (LVD and MD compliant, EN60950-1, EN12100-1, EN60204-1, and EN1010)
	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM)
	Environmental	REACH
Warranty & Service coverage included	One-year limited hardware warranty	

HP Jet Fusion 4210 Processing Station with Fast Cooling⁶

Features	Automated mixing, sieving, and loading; semi-manual unpacking; fast cooling; ⁶ external storage tank	
	Dimensions (w x d x h)	Processing Station with Fast Cooling ⁶
Weight	Shipping	3499 x 1176 x 2180 mm (137.8 x 46.3 x 85.8 in)
	Operating area	3321 x 3071 x 2500 mm (130.7 x 120.9 x 99 in)
Power	Consumption	2.6 kW (typical)
	Requirements	Input voltage single phase 200-240 V (line-to-line), 19 A max, 50/60Hz or 220 - 240 V (line-to-neutral), 14 A max, 50Hz
	Certification	Safety
Warranty & Service coverage included	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM)
	Environmental	REACH
Warranty & Service coverage included One-year limited hardware warranty		

Eco Highlights



- Powders or agents are not classified as hazardous⁷
- Cleaner, more comfortable workplace—enclosed printing system, and automatic powder management⁷
- Minimizes waste due to industry-leading reusability of powder¹⁴
- Take-back program for printheads¹⁵

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

For more information, please visit hp.com/go/JetFusion3DSolutions



1. Based on internal testing and public data, HP Jet Fusion 3D 4210 Printing Solution average printing cost-per-part is 65% lower versus the average cost of comparable fused deposition modeling (FDM) and selective laser sintering (SLS) printer solutions from \$100,000 USD to \$300,000 USD on market as of April, 2016 and is 50% lower versus the average cost of comparable SLS printer solutions for \$300,000 USD to \$450,000 USD. 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.
2. Based on internal testing and simulation, HP Jet Fusion 3D average printing time is up to 10 times faster than average printing time of comparable fused deposition modeling (FDM) and selective laser sintering (SLS) printer solutions from \$100,000 USD to \$300,000 USD on market as of April, 2016. Testing variables for the HP Jet Fusion 4210/4200 Printing Solutions: Part quantity: 1 full build chamber of parts from HP Jet Fusion 3D at 20% of packing density versus same number of parts on above-mentioned competitive devices; Part size: 30 cm³; Layer thickness: 0.08 mm/0.003 inches.
3. Industry-leading surplus powder reusability based on using HP 3D High Reusability 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 for dimensional stability. Testing monitored using statistical process controls. Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.
4. Based on HP's unique Multi-Agent printing process. Excellent dimensional accuracy and fine detail within allowable margin of error. Based on dimensional accuracy of ±0.2 mm/0.008 inches on XY for hollow parts below 100 mm/3.94 inches and ±0.2% for hollow parts over 100 mm/3.94 inches, using HP 3D High Reusability PA 12 material, measured after sandblasting. See hp.com/go/3Dmaterials for more information on materials specifications.
5. Based on the following mechanical properties: Tensile strength at 48 MPa (XYZ), Modulus at 1700-1800 MPa (XYZ). ASTM standard tests with HP 3D High Reusability PA 12 material. See hp.com/go/3Dmaterials for more information on materials specifications.
6. Fast Cooling is enabled by HP Jet Fusion 3D Processing Station with Fast Cooling. HP Jet Fusion 3D Processing Station with Fast Cooling accelerates parts cooling time vs recommended manufacturer time of selective laser sintering (SLS) printer solutions from \$100,000 USD to \$450,000 USD, as tested in April, 2016. Fused deposition modeling (FDM) not applicable. Continuous printing requires an additional HP Jet Fusion 3D Build Unit (standard printer configuration includes one HP Jet Fusion 3D Build Unit).
7. Compared to manual print retrieval process used by other powder-based technologies. The term "cleaner" does not refer to any indoor air quality requirements and/or consider related air quality regulations or testing that may be applicable. The HP powder and agents do not meet the criteria for classification as hazardous according to Regulation (EC) 1272/2008 as amended.
8. Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.
9. Available in May, 2018.
10. Additional material management equipment is required.
11. Available in the second half of 2018.
12. Based on 0.08-mm (0.003-in) layer thickness and 7.55 sec/layer.
13. 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.
14. HP Jet Fusion 3D printing solutions using HP 3D High Reusability PA 12 and HP 3D High Reusability PA 11 provide 80% post-production surplus powder reusability, producing functional parts batch after batch. For testing, material is aged in real printing conditions and powder is tracked by generations (worst case for recyclability). Parts are then made from each generation and tested for mechanical properties and accuracy.
15. Printing supplies eligible for recycling vary by 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.

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4AA7-1532ENE, March 2018

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