

# HP Jet Fusion 3D Printing Solutions

Reinvent making



*The HP Jet Fusion 3D Printing Solutions reinvent how you prototype and produce functional parts, delivering quality output, up to 10 times faster<sup>1</sup> at half the cost or more<sup>2</sup>*



## Superior, consistent part quality<sup>3,4</sup>

- Get excellent dimensional accuracy and fine detail,<sup>3</sup> thanks to HP's unique Multi-Agent printing process
- Produce truly functional parts with optimal mechanical properties,<sup>4</sup> faster<sup>1</sup>
- Obtain predictable, reliable final printed parts that match your design<sup>5</sup>
- Access new future materials and uncover new applications thanks to the HP Multi Jet Fusion Open Platform

## Breakthrough productivity

- Produce more parts per day with continuous printing and fast cooling<sup>1,6</sup>
- Streamline your workflow with HP's automated materials mixing and Processing Station
- Cleaner experience with an enclosed Processing Station and materials not classified as hazardous<sup>7</sup>
- Rely on HP's world-class HP Jet Fusion 3D Solution Services to maximize uptime and productivity
- Choose your ideal end-to-end solution from a range of printing and processing options

## Lowest cost per part<sup>2</sup>

- Achieve lowest cost per part<sup>2</sup> and reduce operational costs, opening your doors to short-run manufacturing
- Benefit from a competitively priced 3D printing solution<sup>2</sup>
- Optimize cost and part quality, with cost-efficient materials that offer industry-leading reusability<sup>8</sup>
- Plan production times more accurately and predictably to help increase your overall operational efficiency

For more information, please visit [hp.com/go/3DPrint](https://hp.com/go/3DPrint)

# HP Jet Fusion 3D 4210/4200 Printing Solutions

**Easy-to-use solution** that scales with your business; integrated **end-to-end process** that delivers both functional prototypes and final parts

Breakthrough speed up to **10 times faster**<sup>1</sup> thanks to **HP's proprietary printing technologies** with 30 million drops per second across each inch (25,4 mm) of the working area

**HP fusing and detailing agents** work with HP Multi Jet Fusion technology and materials to deliver fine details and dimensional accuracy<sup>3</sup>

**Accurate thermal control** of every layer enables predictive corrections voxel by voxel for optimal mechanical properties<sup>4</sup>

**In-printer quality checks** reported via a touchscreen help minimize errors and enable easy and accurate job progress tracking

**Stay connected:**<sup>9</sup> The HP Jet Fusion 3D printing solution collects data to provide a better customer and support experience; connectivity also drives both higher uptime and remote monitoring of your HP system from anywhere

**HP SmartStream 3D Build Manager and Command Center:** complete, easy-to-use in-box software solutions that streamline your workflow from design to final part

**HP 3D printing materials** provide optimal output quality and high reusability at a low cost per part and include HP 3D High Reusability PA 12, HP 3D High Reusability PA 12 Glass Beads, and HP 3D High Reusability PA 11

Change to **different materials:** the HP Jet Fusion 3D External Tank allows the extraction of recycled material from the Processing Station so it can be replaced with a different material



## HP Jet Fusion 3D Printer



Image shows the HP Jet Fusion 4200 Printing Solution

Accelerated **materials innovation** to drive new, high-performance materials thanks to **HP's Open Platform**

## HP Jet Fusion 3D Processing Station with Fast Cooling<sup>6</sup>



**Automated materials mixing and loading systems** help streamline your workflow and reduce labor time



No additional room for parts removal needed with **enclosed unpacking and material collection system**, including a laminar hood



The **HP Jet Fusion 3D Build Unit**—included within the printer—is moved on for cooling right after job completion, allowing a **continuous printing<sup>6</sup>** process and maximizing productivity<sup>1</sup>



The **HP Jet Fusion 3D Fast Cooling Module<sup>8</sup>** reduces cooling time resulting in faster<sup>1</sup> time-to-part and more parts ready within the same day



**HP Jet Fusion 3D Solution Services** stand behind your business to maximize your uptime and productivity, with next-business-day onsite support and spare parts availability<sup>10</sup>

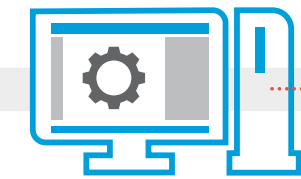
## HP Jet Fusion 3D 4210 Printing Solution

Ideal for manufacturing environments producing 700-1000 parts per week

## HP Jet Fusion 3D 4200 Printing Solution

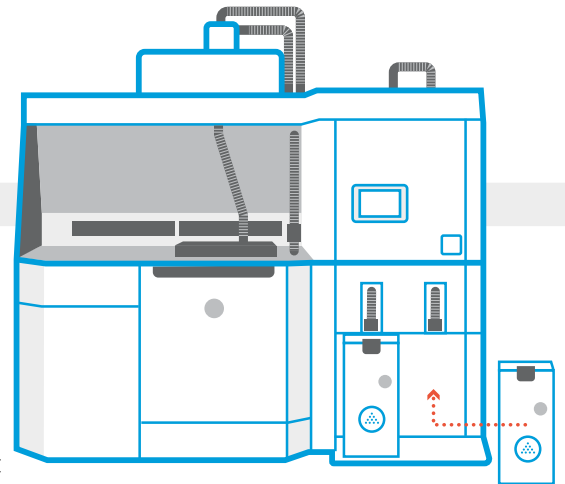
Ideal for industrial prototyping and final part production environments producing 300-699 parts per week

# Reinventing 3D Printing



**1 Prepare your design for printing:**  
Open your 3D model and check for errors with easy-to-use HP software.

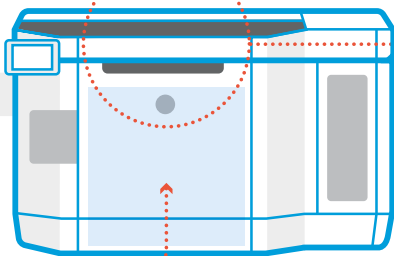
**2 Pack models and send to printer:**  
Place multiple models in build platform and submit job to printer.



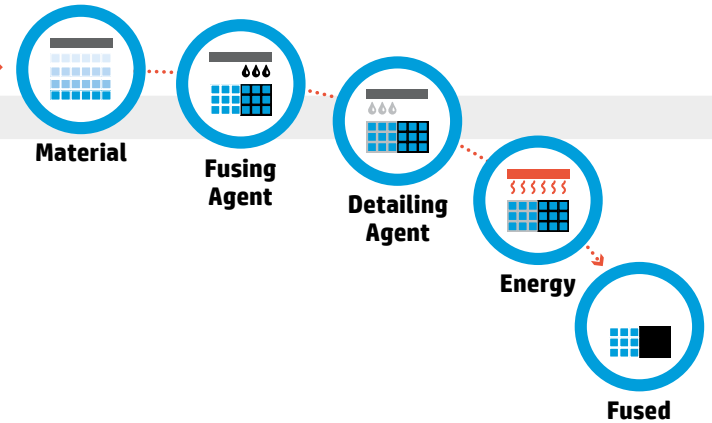
**3 Add materials:**  
Insert the pre-packed HP 3D materials cartridges into the HP Jet Fusion 3D Processing Station.



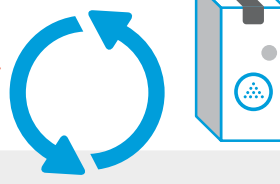
**6 ...Slot the Build Unit into the printer**



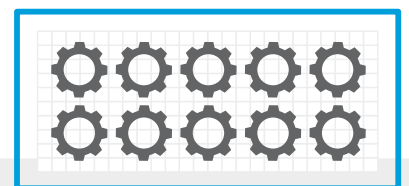
**7 Printing with voxel-level control:**  
Just press Start to get excellent dimensional accuracy and fine detail,<sup>3</sup> thanks to HP's unique Multi-Agent printing process.



**10 Cleaner extraction:<sup>7</sup>**  
Eliminate the need for an additional room for parts removal with enclosed unpacking and material collection system.

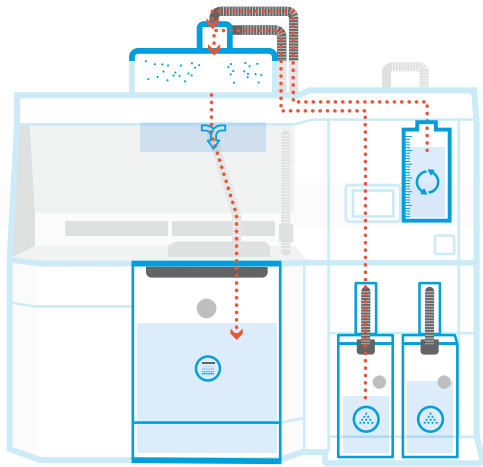


**11 Industry-leading materials reusability:<sup>8</sup>**  
Get consistent performance while achieving 80% surplus powder reusability.<sup>11</sup>



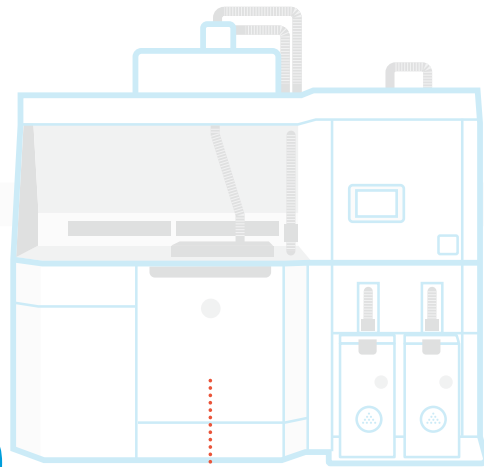
**12 Breakthrough productivity:**  
Produce parts up to 10 times faster<sup>1</sup> at half the cost or more.<sup>2</sup>

Enabled by HP Jet Fusion 3D Processing Station

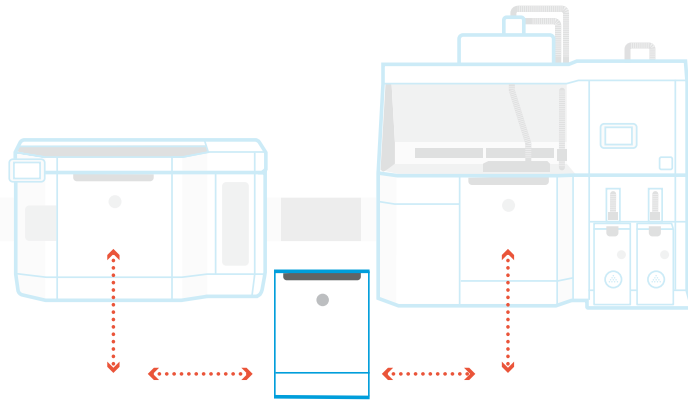
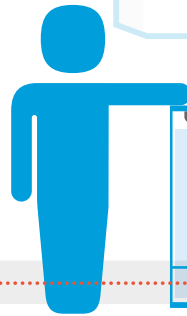


## 4 Automated mixing:

A cleaner loading and mixing experience because the Processing Station is enclosed and automated. Materials are loaded into the HP Jet Fusion 3D Build Unit.



## 5 Remove the HP Jet Fusion 3D Build Unit from the Processing Station...

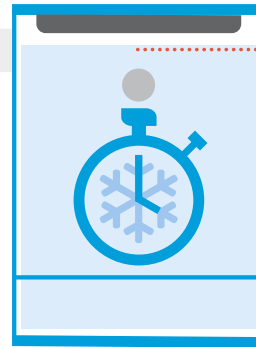


## 8 Streamlined workflow:

The Build Unit is removed from the printer—which is now ready for the next build—and slotted back into the Processing Station.

## 9 Produce more parts per day<sup>1</sup> with the HP Jet Fusion 3D Processing Station:

With continuous printing and fast cooling.<sup>6</sup> Once cooled, parts are ready for post processing.



## 13 Job done:

As soon as the parts are ready, you receive an alert.



## 14 HP Services:

Rely on HP Jet Fusion 3D Solution Services—including Next Business Day Support & Parts<sup>10</sup>—to help maximize uptime and productivity.



keep reinventing

# Ordering information

	HP Jet Fusion 3D 4210 Printing Solution		HP Jet Fusion 3D 4200 Printing Solution		
<b>Printer</b>	ZYG73A	HP Jet Fusion 3D 4210 Printer	MOP44B	HP Jet Fusion 3D 4200 Printer	
<b>Accessories</b>	ZYG74A	HP Jet Fusion 3D 4210 Processing Station with Fast Cooling <sup>6</sup>	MOP49C	HP Jet Fusion 3D 4200 Processing Station with Fast Cooling <sup>6</sup>	
	MOP45C	HP Jet Fusion 4210 3D Build Unit	MOP45B	HP Jet Fusion 3D Build Unit	
	MOP54B	HP Jet Fusion 3D External Tank 5 units Bundle	MOP54B	HP Jet Fusion 3D External Tank 5 units Bundle	
	MOP54D	HP Jet Fusion 3D External Tank Starter Kit	MOP54C	HP Jet Fusion 3D External Tank Starter Kit	
	3WL35A	HP Jet Fusion 3D Material Unloading Kit	N/A	N/A	
	3FW24A	HP Jet Fusion 3D Material Loading 3 units Bundle	N/A	N/A	
<b>Recommended accessories</b>	Girbau DY130 Dyeing Solution	Please consult with your local HP Partner First 3D Printing Specialist	Girbau DY130 Dyeing Solution	Please consult with your local HP Partner First 3D Printing Specialist	
<b>Original HP Printheads</b>	F9K08A	HP 3D600 Printhead	F9K08A	HP 3D600 Printhead	
	V1Q77A	HP 3D710 Printhead	N/A	N/A	
<b>Original HP Agents</b>	V1Q60A	HP 3D600 3L Fusing Agent	V1Q60A	HP 3D600 3L Fusing Agent	
	V1Q61A	HP 3D600 3L Detailing Agent	V1Q61A	HP 3D600 3L Detailing Agent	
	V1Q63A	HP 3D700 5L Fusing Agent	V1Q63A	HP 3D700 5L Fusing Agent	
	V1Q64A	HP 3D700 5L Detailing Agent	V1Q64A	HP 3D700 5L Detailing Agent	
	V1Q78A	HP 3D710 5L Fusing Agent	N/A	N/A	
	V1Q79A	HP 3D710 5L Detailing Agent	N/A	N/A	
<b>Other supplies</b>	V1Q66A	HP 3D600 Cleaning Roll	V1Q66A	HP 3D600 Cleaning Roll	
<b>Original HP 3D materials</b>	V1R10A	HP 3D High Reusability PA 12 30L (13 kg) <sup>12</sup>	V1R10A	HP 3D High Reusability PA 12 30L (13 kg) <sup>12</sup>	
	V1R16A	HP 3D High Reusability PA 12 300L (130 kg) <sup>12</sup>	V1R16A	HP 3D High Reusability PA 12 300L (130 kg) <sup>12</sup>	
	V1R34A	HP 3D High Reusability PA 12 300L (130 kg) Production Material <sup>12,13</sup>	N/A	N/A	
	V1R20A	HP 3D High Reusability PA 12 1400L (600 kg) <sup>12,13,14</sup>	N/A	N/A	
	V1R12A	HP 3D High Reusability PA 11 30L (14 kg) <sup>12,15</sup>	V1R12A	HP 3D High Reusability PA 11 30L (14 kg) <sup>12,15</sup>	
	V1R18A	HP 3D High Reusability PA 11 300L (140 kg) <sup>12,15</sup>	V1R18A	HP 3D High Reusability PA 11 300L (140 kg) <sup>12,15</sup>	
	V1R36A	HP 3D High Reusability PA 11 300L (140 kg) Production Material <sup>12,15</sup>	N/A	N/A	
	V1R24A	HP 3D High Reusability PA 11 1700L (750 kg) <sup>12,14,15</sup>	N/A	N/A	
	V1R11A	HP 3D High Reusability PA 12 Glass Beads 30L (15 kg) <sup>12</sup>	V1R11A	HP 3D High Reusability PA 12 Glass Beads 30L (15 kg) <sup>12</sup>	
	V1R22A	HP 3D High Reusability PA 12 Glass Beads 300L (150 kg) <sup>12</sup>	V1R22A	HP 3D High Reusability PA 12 Glass Beads 300L (150 kg) <sup>12</sup>	
	V1R35A	HP 3D High Reusability PA 12 Glass Beads 300L (150 kg) Production Material <sup>12,13</sup>	N/A	N/A	
	V1R23A	HP 3D High Reusability PA 12 Glass Beads 1400L (700 kg) <sup>12,13,14</sup>	N/A	N/A	
	<b>Certified HP 3D materials</b>	EVNV1R14A	VESTOSINT® 3D Z2773 PA 12 30L (14 kg) <sup>12</sup>	EVNV1R14A	VESTOSINT® 3D Z2773 PA 12 30L (14 kg) <sup>12</sup>
		EVNV1R17A	VESTOSINT® 3D Z2773 PA 12 300L (140 kg) <sup>12</sup>	EVNV1R17A	VESTOSINT® 3D Z2773 PA 12 300L (140 kg) <sup>12</sup>
<b>HP Jet Fusion 3D Solution Services</b>	U9EJ8E	HP Installation w/Introduction to Basic Operation Service for HP Jet Fusion 3D Printer	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	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	U9HQ4E	Ramp up Care Pack for HP Jet Fusion 3D Solution	
	1MZ23B	HP 3D Printer Initial Maintenance Kit	1MZ23B	HP 3D Printer Initial Maintenance Kit	
	1MZ24A	HP 3D Printer Yearly Maintenance Kit	1MZ24A	HP 3D Printer Yearly Maintenance Kit	
	1MZ25B	HP 3D Post Processing Maintenance Kit	1MZ25B	HP 3D Post Processing Maintenance Kit	
	U9EK7E	HP Advanced Operation Training Service for Jet Fusion 3D Printer (HP Training Center)	U9EK7E	HP Advanced Operation Training Service for Jet Fusion 3D Printer (HP Training Center)	
	U9VP8E	HP 3 year NBD* Onsite Hardware Support with DMR**	U9EK4E	HP 3 year NBD* Onsite Hardware Support with DMR**	
	U9EQ8E	HP 3 year NBD* Onsite Build Unit Support	U9EQ8E	HP 3 year NBD* Onsite Build Unit Support	
	U9EM5E	HP 3 year NBD* Onsite Support for Processing Station with Fast Cooling	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	U9TZ7E	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	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	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***	U9UB1E	HP Train to Maintain Service for Jet Fusion 3D Printer***	
	U9Z59E	HP Uptime Kit for Jet Fusion 3D Printer***	U9Z59E	HP Uptime Kit for Jet Fusion 3D Printer***	
	U9ZT1E	HP Uptime Kit for Jet Fusion 3D Processing Station***	U9ZT1E	HP Uptime Kit for Jet Fusion 3D Processing Station***	
	U9ZT0E	HP Uptime Kit for Jet Fusion 3D Build Unit***	U9ZT0E	HP Uptime Kit for Jet Fusion 3D Build Unit***	
	U9ZN5E	HP Bulk Enablement Upgrade Service	N/A	N/A	
	N/A	N/A	U9VS9E	HP Upgrade to HP Jet Fusion 3D 4210 Printer Hardware Service	
	N/A	N/A	U9VT0E	HP Upgrade to HP Jet Fusion 3D Processing Station w/FC 4210 Hardware Service	

\* Next Business Day

\*\* Defective Media Retention

\*\*\* This is only for Shared Hardware Support Services



# Technical specifications<sup>16</sup>

## HP Jet Fusion 3D 4210/4200 Printer

<b>Printer performance</b>	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 <sup>3</sup> /hr (251 in <sup>3</sup> /hr) <sup>17</sup>
	Layer thickness	0.08 mm (0.003 in)
<b>Dimensions (w x d x h)</b>	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)
<b>Weight</b>	Printer	750 kg (1653 lb)
	Shipping	945 kg (2083 lb)
<b>Network<sup>18</sup></b>	Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL	
<b>Hard disk</b>	<b>4200 printer:</b> 2TB (AES-256 encrypted, FIPS 140, disk wipe DoD 5220M)	
	<b>4210 printer:</b> HDD 1TB (AES-256 encrypted, disk wipe DoD 5520M) & SSD 500GB (AES-256 encrypted)	
<b>Software</b>	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
<b>Power</b>	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
<b>Certification</b>	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
<b>Warranty &amp; Service coverage included</b>	One-year limited hardware warranty	

## HP Jet Fusion 4210/4200 Processing Station with Fast Cooling<sup>6</sup>

<b>Features</b>	Automated mixing, sieving, and loading; semi-manual unpacking; fast cooling; <sup>6</sup> external storage tank	
<b>Dimensions (w x d x h)</b>	Processing Station with Fast Cooling <sup>6</sup>	3121 x 1571 x 2400 mm (122.9 x 61.9 x 94.5 in)
	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)
<b>Weight</b>	Processing Station with Fast Cooling <sup>6</sup>	480 kg (1058 lb)
	Loaded	810 kg (1786 lb)
	Shipping	620 kg (1367 lb)
<b>Power</b>	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
<b>Certification</b>	Safety	UL 2011, UL508A, NFPA, C22.2 NO. 13-14 compliant; United States and Canada (UL listed); EU (MD compliant, EN 60204-1, EN 12100-1 and EN 1010)
	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM)
	Environmental	REACH
<b>Warranty &amp; Service coverage included</b>	One-year limited hardware warranty	

### Eco Highlights



- Powders or agents are not classified as hazardous<sup>7</sup>
- Cleaner, more comfortable workplace—enclosed printing system, and automatic powder management<sup>7</sup>
- Minimizes waste due to industry-leading reusability of powder<sup>11</sup>
- Take-back program for printheads<sup>19</sup>

Find out more about HP sustainable solutions at [hp.com/ecosolutions](http://hp.com/ecosolutions)

For more information, please visit [hp.com/go/3DPrint](http://hp.com/go/3DPrint)



Cofinanced Project by Minetur -SETS  
TSI-100802-2014-1



- 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 cm<sup>3</sup>; Layer thickness: 0.08 mm/0.003 inches.
- 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. Common cost criteria: using HP 3D High Reusability PA 12 material, and the powder reusability ratio recommended by manufacturer. HP Jet Fusion 3D 4200 Printing Solution average printing cost per part is half the average cost of comparable fused deposition modeling (FDM) and selective laser sintering (SLS) printer solutions from \$100,000 to \$300,000 USD. Cost criteria: printing 1 build chamber per day/5 days per week over 1 year of 30 cm<sup>3</sup> parts at 10% packing density. HP Jet Fusion 3D 4210 Printing Solution average printing cost per part is 65% lower versus the average cost of comparable FDM and SLS printer solutions from \$100,000 to \$300,000 USD and is 50% lower versus the average cost of comparable SLS printer solutions for \$300,000 to \$450,000 USD. Cost criteria: printing 1.4 full build chambers of parts per day/5 days per week over 1 year of 30 cm<sup>3</sup> parts at 10% packing density on fast print mode.
- 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](http://hp.com/go/3Dmaterials) for more information on materials specifications.
- 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](http://hp.com/go/3Dmaterials) for more information on materials specifications.
- 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](http://hp.com/go/3Dmaterials) for more information on materials specifications.
- 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 versus 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).
- 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.
- 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.
- For advanced data features charges may apply in the future.
- Available in most countries, subject to Terms & Conditions of HP Limited Warranty and/or Service Agreement. Please consult your local sales representatives for further details.
- 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.
- Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.
- Available in May, 2018.
- Additional material management equipment is required.
- Available in the second half of 2018.
- For latest technical specifications, please visit [hp.com/go/3DPrint](http://hp.com/go/3DPrint).
- Based on 0.08-mm (0.003-in) layer thickness and 7.55 sec/layer.
- 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.
- Printing supplies eligible for recycling vary by printer. Visit [hp.com/recycle](http://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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