

# HP Jet Fusion 3D Printing Solution

Reinventing prototyping and manufacturing



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



Image may differ from actual product.

## Superior, consistent part quality

- Get extreme 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</sup>
- Streamline your workflow with HP's automated materials preparation and post-processing station
- Cleaner experience with an enclosed Processing Station and materials not classified as hazardous<sup>6</sup>
- Rely on HP's world-class Technical Services and Support 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>7</sup>
- Plan production times more accurately and predictably, to increase your overall operational efficiency

For more information, please visit [hp.com/go/JetFusion3DSolutions](https://hp.com/go/JetFusion3DSolutions)

# HP Jet Fusion 3D 4200/3200 Printing Solution



## HP Jet Fusion 3D 4200/3200 Printer

## HP Jet Fusion 3D Processing Station with Fast Cooling<sup>1</sup>

Image may differ from actual product.

### Ordering information

	HP Jet Fusion 3D 4200 printing solution		HP Jet Fusion 3D 3200 printing solution	
<b>Product</b>	MOP44A	HP Jet Fusion 3D 4200 Printer	MOP41A	HP Jet Fusion 3D 3200 Printer
<b>Accessories</b>	MOP49A	HP Jet Fusion 3D Processing Station with Fast Cooling <sup>1</sup>	MOP42A	HP Jet Fusion 3D Processing Station
	MOP45A	HP Jet Fusion 3D Build Unit	MOP45A	HP Jet Fusion 3D Build Unit
<b>Original HP Printheads</b>	F9K08A	HP 3D600 Printhead	F9K08A	HP 3D600 Printhead
<b>Original HP Agents</b>	V1Q60A	HP 3D600 Fusing Agent 3L	V1Q60A	HP 3D600 Fusing Agent 3L
	V1Q61A	HP 3D600 Detailing Agent 3L	V1Q61A	HP 3D600 Detailing Agent 3L
<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 PA12 30L <sup>10</sup> (13 kg)	V1R10A	HP 3D High Reusability PA12 30L <sup>10</sup> (13 kg)
<b>Service and support</b>	U9EK5E	HP Installation and Introduction to Basic Operation	U9EJ8E	HP Installation and Introduction to Basic Operation
		HP Support Contracts (Next Business Day Onsite, Annual)		HP Support Contracts (Next Business Day Onsite, Annual)
	U9EK4E	HP 3 year HP Next Business Day Onsite Support	U9EJ7E	HP 3 year HP Next Business Day Onsite Support
	U9EK7E	HP Operator Training	U9EK0E	HP Operator Training

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

**HP Technical Services and Support** stand behind your business to maximize your uptime and productivity, with next-business-day onsite support<sup>8</sup> and spare parts availability<sup>9</sup>

# Technical specifications<sup>11</sup>

## HP Jet Fusion 3D 4200 Printer HP Jet Fusion 3D 3200 Printer

<b>Printer performance</b>	Technology	HP Multi Jet Fusion technology
	Effective building volume	406 x 305x 406 mm (16 x 12 x 16 in)
	Building speed	<b>3200 Printer:</b> 3500 cm <sup>3</sup> /hr (215 in <sup>3</sup> /hr) <sup>12</sup> <b>4200 Printer:</b> 4500 cm <sup>3</sup> /hr (275 in <sup>3</sup> /hr) <sup>13</sup>
	Layer thickness	<b>3200 Printer:</b> 0.08 to 0.10 mm (0.003 to 0.004 in) <b>4200 Printer:</b> 0.07 to 0.12 mm (0.0025 to 0.005 in)
	Print resolution (x, y)	1200 dpi
<b>Dimensions (w x d x h)</b>	Printer	2178 x 1238 x 1448 mm (85.7 x 48.7 x 57 in)
	Shipping	2300 x 1325 x 1983 mm (91 x 52 x 78 in)
	Operating area	3700 x 3700 mm (146 x 146 in)
<b>Weight</b>	Printer	730 kg (1609 lb)
	Shipping	900 kg (1984 lb)
<b>Network</b>	Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL	
<b>Hard disk</b>	2 TB (AES-128 encrypted, FIPS 140, disk wipe DoD 5220M)	
<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
<b>Power</b>	Consumption	9 to 11 kW (typical)
	Requirements	Input voltage three phase 380 to 415 V (line-to-line), 30 A max, 50/60 Hz / 200 to 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	RoHS, REACH
<b>Warranty</b>	One-year Services and Support coverage <sup>14</sup>	

### Eco Highlights



- Powders or agents are not classified as hazardous<sup>15</sup>
- Enclosed printing system and automated powder management, including post-processing, for a cleaner and more comfortable environment<sup>6</sup>
- Minimum waste thanks to high reusability of powder<sup>7</sup>
- Take back program for PHs<sup>16</sup>

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

## For more information, please visit [hp.com/go/JetFusion3Dsolutions](http://hp.com/go/JetFusion3Dsolutions)

1. Fast Cooling enabled by HP Jet Fusion 3D Processing Station with Fast Cooling, available in April 2017. HP Post Processing Station with Fast Cooling accelerates parts cooling time versus recommended manufacturer time by SLS printer solutions from \$100,000 USD to \$300,000 USD, as tested in April 2016. 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). Based on internal testing and simulation, HP Jet Fusion 3D average printing time is up to 10x faster than FDM & SLS printer solutions from \$100,000 USD to \$300,000 USD on market as of April 2016. Testing variables: Part Quantity-1 full bucket of parts from HP Jet Fusion 3D at 20% of packing density vs same number of parts on above-mentioned competitive devices; Part Size 30 g; Layer thickness: 0.1 mm/0.004 inches.
2. Based on internal testing and public data, HP Jet Fusion 3D average printing cost-per-part is half the cost of comparable FDM and SLS printer solutions from \$100,000 USD to \$300,000 USD on market as of April 2016. Cost analysis based on: standard solution configuration price, supplies price, and maintenance costs recommended by manufacturer. Cost criteria: printing 1-2 buckets per day/ 5 days per week over 1 year of 30-gram parts at 10% packing density using the powder reusability ratio recommended by manufacturer.
3. Based on dimensional accuracy of ±0.2 mm/0.008 inches, measured after sand blasting. See [hp.com/go/3Dmaterials](http://hp.com/go/3Dmaterials) for more information on materials specifications.
4. Based on the following mechanical properties: Tensile strength at 50 Mpa (XYZ), Modulus 1900 Mpa (XYZ). ASTM standard tests with PA-12 material. See [hp.com/go/3Dmaterials](http://hp.com/go/3Dmaterials) for more information on materials specifications.
5. Within allowable margin of error. Based on dimensional accuracy of ±0.2 mm/0.008 inches, measured after sand blasting. See [hp.com/go/3Dmaterials](http://hp.com/go/3Dmaterials) for more information on

## HP Jet Fusion Processing Station with Fast Cooling<sup>1</sup> HP Jet Fusion Processing Station

<b>Features</b>	<b>Processing Station</b> (Only compatible with the HP Jet Fusion 3200 Printer)	Automated mixing, sieving, and loading; manual unpacking
	<b>Processing Station with Fast Cooling<sup>1</sup></b> (Compatible with the HP Jet Fusion 3200 and 4200 Printers)	Automated mixing, sieving, and loading; semi-manual unpacking; fast cooling; external storage tank; compatible with high-capacity material cartridges
<b>Dimensions (w x d x h)</b>	<b>Processing Station</b>	1926 x 1245 x 2400 mm (75.8 x 49 x 94.5 in)
	<b>Processing Station with Fast Cooling<sup>1</sup></b>	3121 x 1571 x 2400 mm (122.9 x 61.9 x 94.5 in)
	Shipping	
	<b>Processing Station</b>	2304 x 1176 x 2180 mm (90.7 x 46.3 x 85.8 in)
	<b>Processing Station with Fast Cooling<sup>1</sup></b>	3499 x 1176 x 2180 mm (137.8 x 46.3 x 85.8 in)
	Operating area	
	<b>Processing Station</b>	2126 x 2745 mm (83.7 x 108.1 in)
	<b>Processing Station with Fast Cooling<sup>1</sup></b>	3321 x 3071 mm (130.7 x 120.9 in)
<b>Weight</b>	<b>Processing station</b>	450 kg (992 lb)
	<b>Processing station (loaded)</b>	700 kg (1543 lb)
	<b>Processing Station with Fast Cooling<sup>1</sup></b>	480 kg (1058 lb)
	<b>Processing Station with Fast Cooling<sup>1</sup> (loaded)</b>	810 kg (1786 lb)
	Shipping	
	<b>Processing Station:</b>	600 kg (1323 lb)
	<b>Processing Station with Fast Cooling<sup>1</sup></b>	620 kg (1367 lb)
<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	RoHS, REACH
<b>Warranty</b>	One-year Services and Support coverage <sup>14</sup>	



6. 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.
7. HP MJF Solution with HP 3D High Reusability PA12 has the highest post-production surplus powder reusability with 80% reusability vs any other powder based 3DP technology using PA12 material. Consistent performance with only 20% powder refresh rate.
8. Within warranty or Care Pack coverage.
9. Next-business-day parts availability in most countries.
10. 30L refers to the materials container size and not the actual materials volume.
11. For latest technical specifications, please visit [hp.com/go/3Dprint](http://hp.com/go/3Dprint).
12. Based on 0.08-mm (0.003-in) layer thickness and 10 sec/layer.
13. Based on 0.1-mm (0.004-in) layer thickness and 8 sec/layer.
14. Only available in certain countries and subject to Terms and Conditions of HP Limited Warranty and/or Service Agreement. Please consult with your local sales representatives for further details.
15. The HP powder and agents do not meet the criteria for classification as hazardous according to Regulation (EC) 1272/2008 as amended.
16. 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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