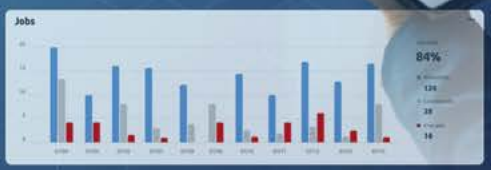
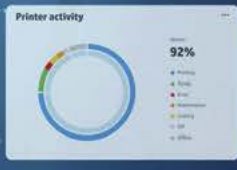
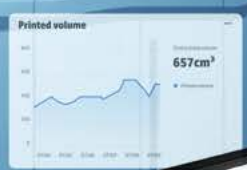




HP 3D Software Solutions



```
printer.insertPart(  
stl.scale(0.25, 0.25, 0.25),  
printer.insertPart(  
prep.scale(0.25, 0.25, 0.25),  
prep.rotate(1, 45, 0),  
envelope = brep.limits(),  
determine  
y_dim = envelope[3] - envelope[1] + 20  
translate  
stl.translate(-x_dim, -y_dim, 0 - stl.limit  
prep.translate(-x_dim, -y_dim, stl.limit  
[5] - brep.limits()[4])
```



HP 3D Software Solutions for HP Jet Fusion 3D Printing and Digital Manufacturing enable you to reach new levels of operational efficiency, part quality and personalization, dimensional accuracy and repeatability, and overall fleet monitoring and optimization.

Gain control across your fleet



Production Flexibility & Agility








Manufacturing Predictability

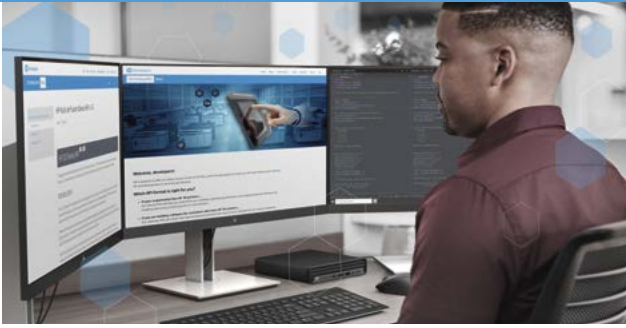


Productivity & Efficiency

A suite of 3D printing software solutions designed to suit your end-to-end production needs:

HP 3D API ¹	HP 3D Center ²	HP SmartStream 3D Build Manager	HP SmartStream 3D Command Center	HP Universal Build Manager powered by Dyndrite ³
				
Streamlined data access and automation across industrial management systems ¹	Dashboard view into production data and remote monitoring for greater efficiency and agility	Quickly and easily prepare your jobs for printing with all the elements you need	Monitor your HP 3D printers, and all other complementary devices, to fully utilize the power of the HP 3D ecosystem	Efficient, automated build preparation across your entire 3D printing fleet ³

HP 3D API¹



Benefits of the HP 3D API:¹

- Robust, automated application programming interface into industrial management systems¹
- Opportunity for partners and third-party ISVs to unlock new markets by enhancing the value of their products to enable end-to-end solutions
- Enables remote job submission and real-time status monitoring
- Access to a wide variety of telemetry, functionality, and data modules¹

HP 3D Center²



HP 3D Center² is a cost-effective, easy-to-use, cloud-based dashboard that delivers current and historical data for greater production control, productivity, and efficiency. From internal reporting to historical data tracking and full traceability, HP 3D Center² takes productivity, quality, and personalization to the next level. Choose from basic and paid versions of the software.

Gain visibility and control:

- Improve workflows and boost productivity through KPI monitoring and real-time data insights
- Keep historical records of every printed job for complete tracking
- Gain visibility into your devices to reduce machine downtime and increase productivity
- Manage operations more efficiently and prevent unscheduled maintenance

HP SmartStream 3D Build Manager and Command Center



The intuitive and powerful **HP SmartStream 3D Build Manager** helps you prepare your jobs for printing and contains the essential features you need to prepare and send to print, including:

- Import 3MF and STL files
- 3D model error detection and correction
- 3D autopacking
- Send to print

Additional HP SmartStream 3D Build Manager features available with the HP Jet Fusion 500 Series 3D Printers include:

- Import OBJ and VRML version two files
- Global color addition, subtraction, and correction⁴

The HP SmartStream 3D Command Center provides secure device connectivity to the HP Cloud and the ability to monitor devices in real-time, locally.

HP Universal Build Manager powered by Dyndrite³



The **HP Universal Build Manager powered by Dyndrite³** simplifies and automates build preparation across all your additive process technologies³ through a single graphics processing unit (GPU) accelerated software platform, enabling improvements in throughput, traceability, and optimization that redefine the potential for overall productivity and efficiency gains in both manually driven and automated or unattended workflows.

The HP Universal Build Manager powered by Dyndrite:

- Supports both industry-standard neutral file formats, as well as product-specific formats for the most popular CAD applications⁵
- Multiple build and support strategies for different additive processes³
- Optimal build packing using a high-performance voxel-based packer
- A plug-in architecture capable of supporting third-party technologies such as analysis, simulation, and machine-specific tool pathing
- The ability to work with large datasets
- Seamless access to data and production information across software tools
- Supports unattended, automated digital factory solutions

Integration with industry-leading software solutions



HP 3D Software Solution compatibility

	HP Jet Fusion 5200 Series 3D Printing Solutions	HP Jet Fusion 4200 Series 3D Printing Solutions	HP Jet Fusion 500/300 Series 3D Printers
HP 3D API ¹	✓	✓	✓
HP 3D Center ²	✓	✓	
HP SmartStream 3D Build Manager	✓	✓	✓
HP SmartStream 3D Command Center	✓	✓	✓
HP Universal Build Manager powered by Dyndrite ³	✓	✓	✓

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/3DSoftware

1. Supported industrial management systems: 3D Control Systems, Siemens NX AM, Siemens Opcenter. Access to additional data modules available only for the HP Jet Fusion 5200 Series 3D Printing Solution. Additional purchases required.

2. Available only for the HP Jet Fusion 5200/4200 Series 3D Printing Solutions. Compatible software. Additional purchase required.

3. Supported additive processes: HP Multi Jet Fusion (polymers), binder jetting (polymers, metals,

ceramics), powder bed fusion DMLS/SLS/SHS (metals), EBM (metals), SLS (polymers), FDM (polymers), SLA/DLP (polymers), LOM (composites, ceramics, glass), CBAM (composites, glass, ceramics). Compatible software. Additional purchase required.

4. Color capabilities are available with the HP Jet Fusion 580 Color 3D Printer only.

5. Supported file formats: STL, 3MF, Parasolid, STEP, CLI, SAT, CATIA, Creo. Inventor, Siemens NX, Rhino3D, Solid Edge, SolidWorks, and more.

