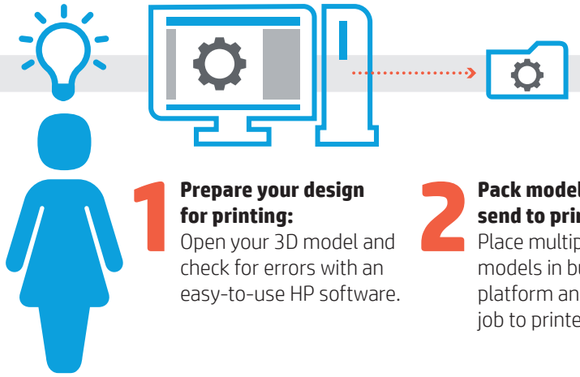
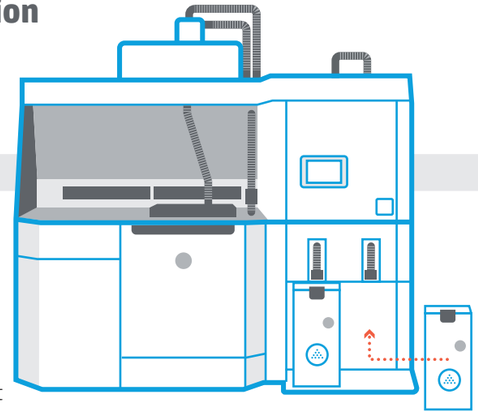
# Reinventing 3D Printing

See how the **HP Jet Fusion™ 3D printing solution** unlocks the full potential of 3D printing.

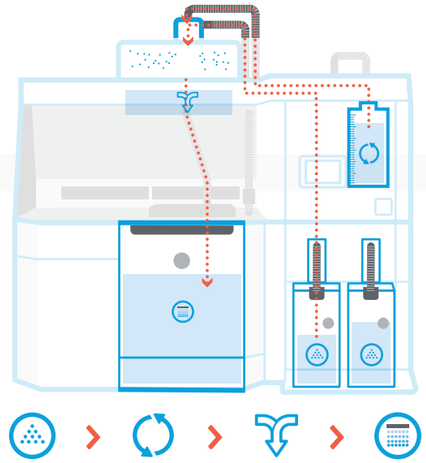


**1 Prepare your design for printing:**
Open your 3D model and check for errors with an easy-to-use HP software.

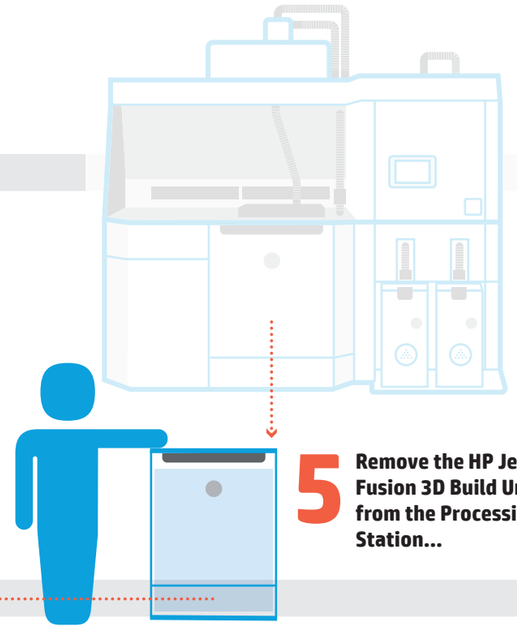
**2 Pack models and send to printer:**
Place multiple models in build platform and submit job to printer.



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



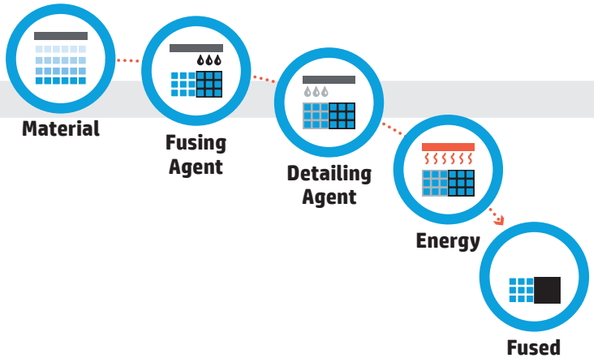
**4 Automated mixing:**
A cleaner loading and mixing experience because the Processing Station is enclosed and automated. Materials are loaded into the HP Jet Fusion 3D Build Unit.

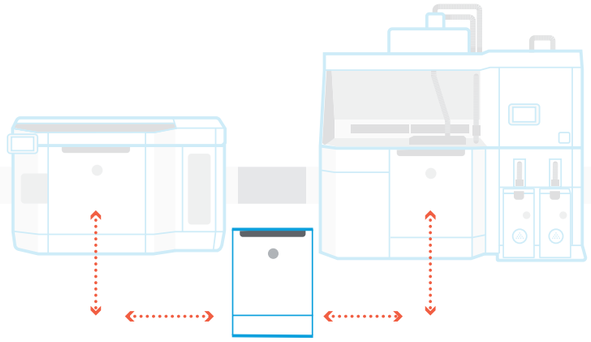


**5 Remove the HP Jet Fusion 3D Build Unit from the Processing Station...**

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

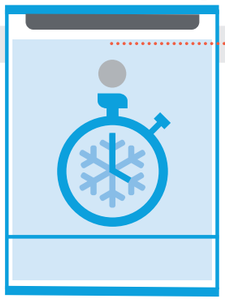
**7 Printing with voxel level control:**
Just press Start to get extreme dimensional accuracy and fine detail,[1] thanks to HP's unique Multi-Agent printing process.



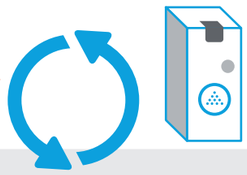



**8 Streamlined workflow:**
The Build Unit is removed from the Printer—which is now ready for the next build—and slotted back into the Processing Station.

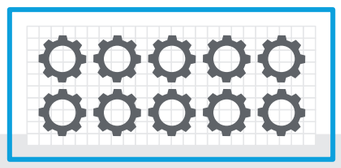
**9 Produce more parts per day with HP Jet Fusion 3D Processing Station:**
With continuous printing and fast cooling.[3] Once cooled, parts are ready for post processing.



**10 Cleaner extraction:[3]**
Eliminate the need for an additional room for parts removal with enclosed unpacking and material collection system.



**11 Industry-leading materials reusability:**
Minimal powder wastage. Get consistent performance with only 20% refresh rates.[4]



**12 Breakthrough productivity:**
Produce parts up to 10 times faster[2] at half the cost.[5]

**Enabled by HP Jet Fusion 3D Processing Station**

**13 Job done:**
As soon as the parts are ready, you receive an alert.

**14 HP Services:**
Rely on HP's world-class Technical Services and Support to maximise uptime and productivity.

keep reinventing

1. Based on a dimensional accuracy of ±0.2mm /0,008 inches, measured after sand-blasting. See hp.com/go/3Dmaterials for more info on materials specifications.
2. Fast Cooling is enabled by HP Jet Fusion 3D Processing Station with Fast Cooling, available in 2017. HP Jet Fusion 3D Processing Station with Fast Cooling accelerates parts cooling time versus recommended manufacturer time of 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 printing solution 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: 30g; Layer thickness: 0.1mm/0.004 inches.
3. 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.
4. HP Jet Fusion 3D print solution with HP High Reusability PA12 has the highest post-production surplus powder reusability with 80% reusability vs any other powder based 3D printing technology using PA12 material. Consistent performance with only 20% powder refresh rate.
5. Based on internal testing and simulation, 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 $300,00 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.