

# WHAT IS Multi Jet Fusion 3D Printing?

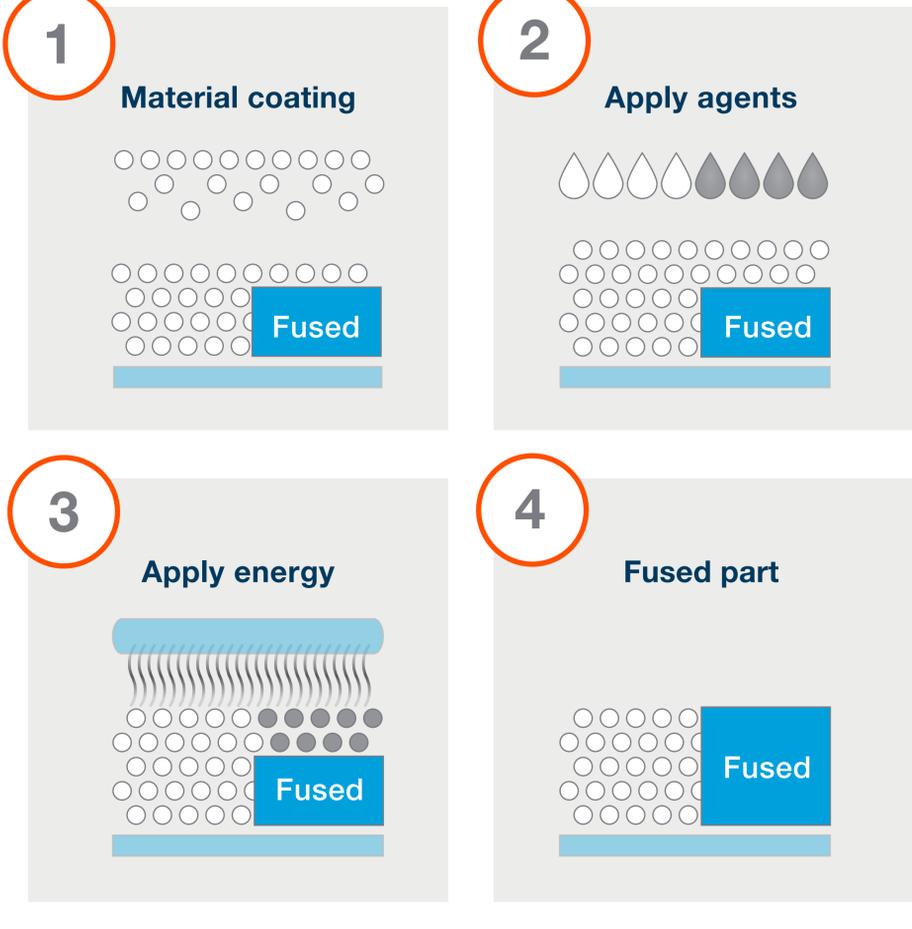
Multi Jet Fusion (MJF) 3D printing offers more possibilities for complex, lower-cost parts. Whether used for single parts, batch manufacturing of multiple part numbers, or serial production, MJF is a fast, cost-effective 3D printing process.

**5x faster\***  
than other 3D printing production technologies, per application requirements

**10% better performance\***  
over similar 3D printing technologies in both lead time & isotropic properties

\*Validated in a 4 month study over 84 builds at Stratasys Direct

## How MJF 3D printing works

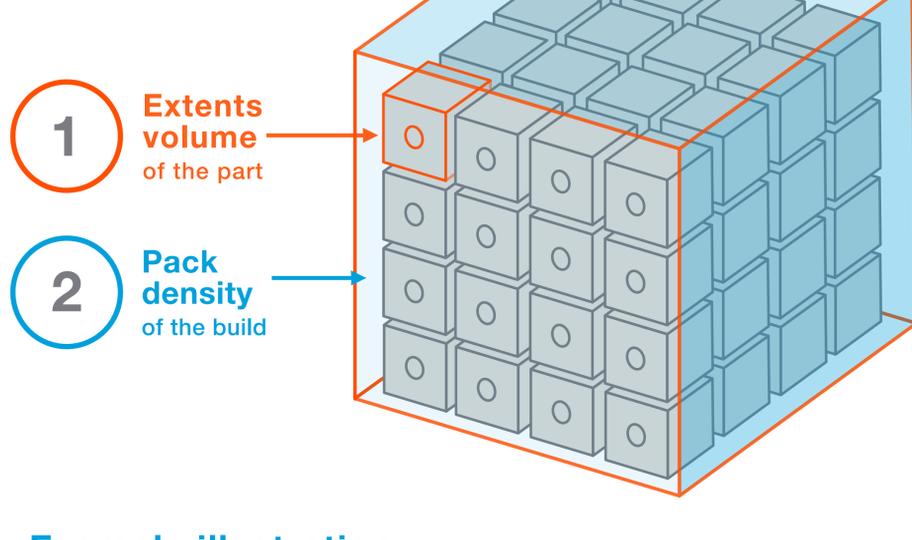


## LS vs. MJF

Laser Sintering	Multi Jet Fusion
<b>Build volume</b> 30 x 20 x 20 in.	<b>Build volume</b> 16 x 12 x 16 in.
<b>Minimum wall thickness</b> 0.040 in. (1 mm)	<b>Minimum wall thickness</b> 0.020 in. (0.5 mm)
<b>Accuracy</b> ±0.015 in. (0.4 mm) or ±0.003 in/in (0.1 mm/mm), whichever is greater	<b>Accuracy</b> 0.02 in. (0.5 mm)
<b>Minimum feature size</b> 0.03 in. (0.8 mm)	<b>Minimum feature size</b> 0.020 in. (0.5 mm)

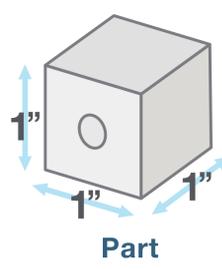
## MJF economies of scale

The main factors driving part cost & production time in MJF are:



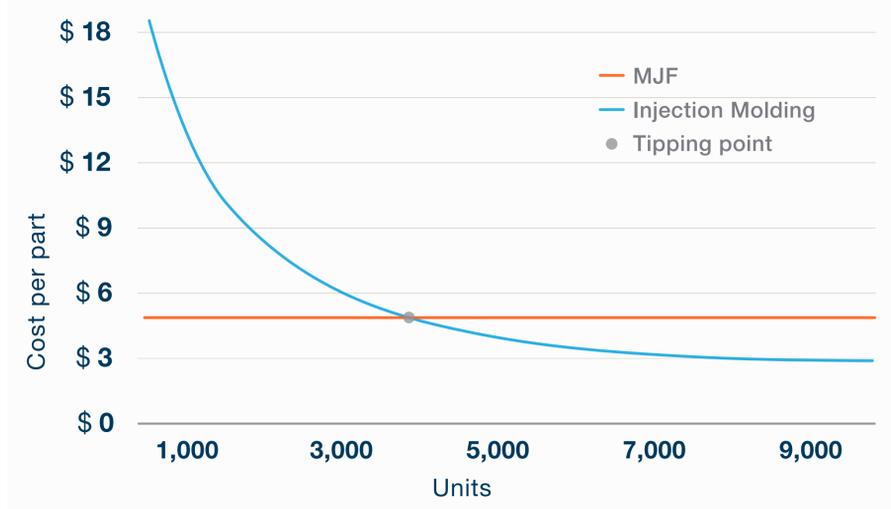
### Example illustration

The tipping point between MJF and Injection Molding is 4,000 units



Injection Molding	Multi Jet Fusion
<b>Cost per part</b> \$1.25	<b>Cost per part</b> \$5*
<b>Tool cost</b> \$15,000	<b>Tool cost</b> —

\*When building at full pack density

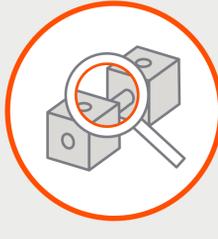


## Benefits of MJF



**Batch manufacturing**  
Build time is constant based on build height, so the greatest value is delivered by packing as many parts as possible into the build chamber.

**Detailed features**  
MJF has some of the best surface feature details of thermoplastic 3D printing technologies.



**Isotropic properties**  
MJF provides near iso-tropic properties with 10% better performance in the Z orientation.