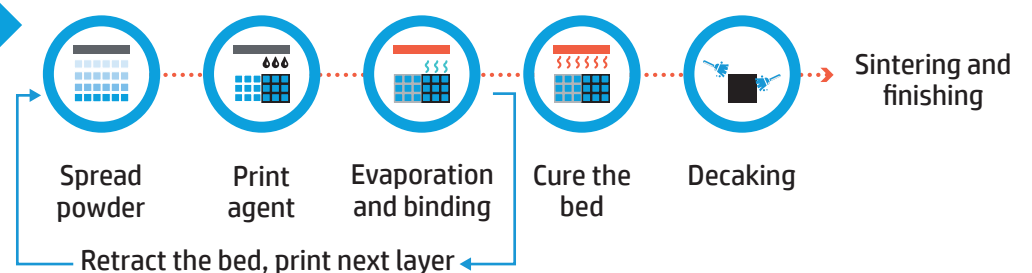


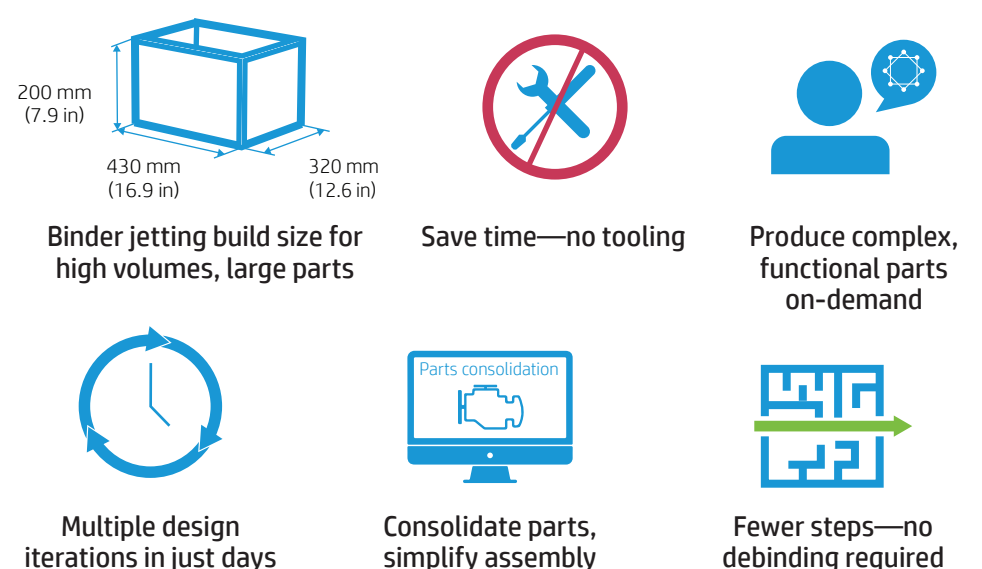
# HP Metal Jet. Reinvent opportunities.

Take on new jobs and unlock new revenue streams. Produce complex parts and new applications, in cost-effective high-volume runs.

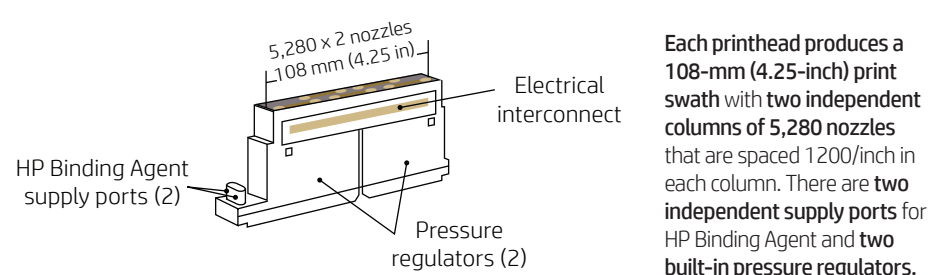
## HP Metal Jet printing process



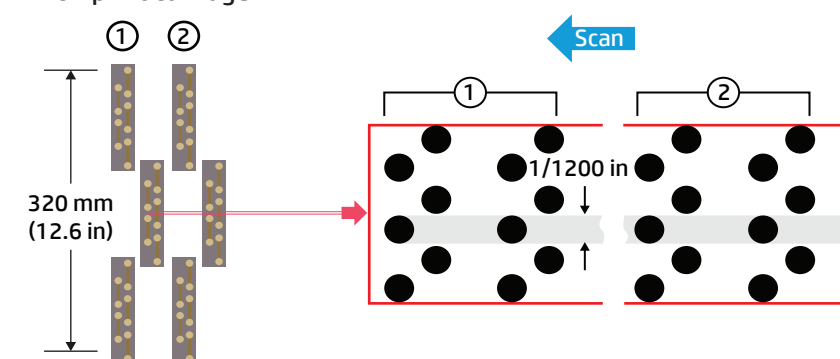
## Up to 50X more productive<sup>1</sup>



## HP Thermal Inkjet printheads—printhead and nozzle arrangement



### Printhead arrangement on print carriage



HP Metal Jet printers use six printheads arranged in two printbars on the print carriage

Four nozzles print in the same 1/1200-inch dot row =  
4X nozzle redundancy: up to four different nozzles can print HP Binding Agent in the same 1200 dpi grid point on the powder bed

## High-quality final metal parts



Get strong, functional final metal parts with HP's isotropic mechanical properties and proprietary binding agent. Compared to selective laser melting (SLM), HP Metal Jet produces more isotropic grain structure in the sintered part that results in more uniform material properties. Count on HP Thermal Inkjet expertise for industrial production-grade quality and consistent output at speed.

## Low cost<sup>2</sup>

Drive new business growth by producing high-quality final metal parts at a low cost per part.<sup>2</sup> High reusability of materials can reduce materials cost and waste.<sup>3</sup> Look to HP's Open Platform for industry-standard, low-cost materials and sintering solution compatibility.



## HP Binding Agent:

### Key enabler for higher quality and productivity

A time-consuming debinding process is unnecessary with HP Metal Jet. With HP Metal Jet, the green part can be up to 99% metal by weight. In metal injection molding (MIM), feedstocks are typically less than 93%. MIM requires a debinding process to remove the wax that can add up to 20 hours to the MIM workflow. HP Binding Agent also allows thicker-walled parts to be produced faster as HP Metal Jet's low polymer loading effectively decomposes more rapidly than the higher load of MIM polymers under sintering temperatures.



No extra time for HP Metal Jet



MIM up to 20 extra hours



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



keep reinventing

1. Based on comparable competitive binder jetting and selective laser melting (SLM) metals 3D printing solutions available as of July 31, 2018. Productivity claim based on: 1) up to 50 times more productive, on average, based on print speed for serial production up to 100,000 parts, and 2) solution acquisition cost.
2. Low cost based on comparable competitive binder jetting and selective laser melting (SLM) metals 3D printing solutions available as of July 31, 2018.
3. Compared to selective laser melting (SLM) and based on internal testing of HP Metal Jet technology, as of September 2018.

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