



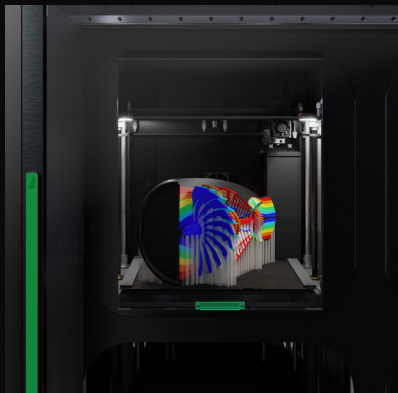
# ARRAY

## Product Sheet

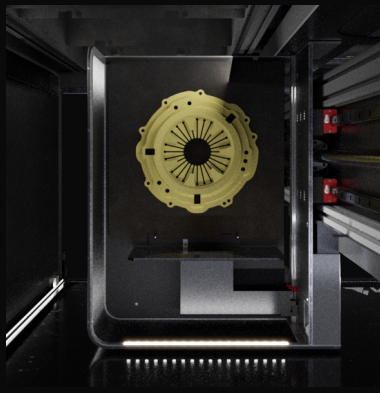
High throughput and low cost  
industrial 3D printing.

# ARRAY

## Key Features



Large volume prints in up to 8 different materials.



Automated systems increase throughput by up to 10 times.<sup>1</sup>



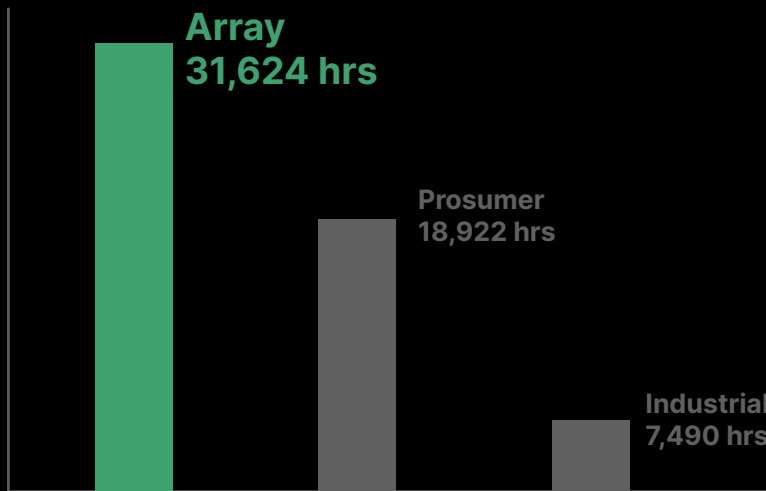
Integrated storage cart maximizes printer uptime.

- ✓ Support for industrial materials including **PEEK, PEKK and Ultem 9085**
- ✓ **72+ hours of continuous** unattended operation<sup>2</sup>
- ✓ **95% more cost effective** on a per print basis<sup>3</sup>
- ✓ **Automated** print bed removal, changeover, and failure detection
- ✓ **Automated** material changover and runout detection with **Palette X**

### Total Print Hours Per Year

↑ **58%**

Throughput increase when compared to other similarly spec'd 3D printing solutions.<sup>4</sup>



1. Research based on currently available commercial 3D printers with comparable specifications being run in normal operating conditions.

2. Continuous runtime is measured as back-to-back print jobs, without print or material failure and/or print material changover issues.

3. Relative total cost factors in material cost, labour, system depreciation over a 5 year period.

4. Based on a total matched investment of \$60,000 or the price of equivalent Prosumer and Industrial 3D printing FFF systems.

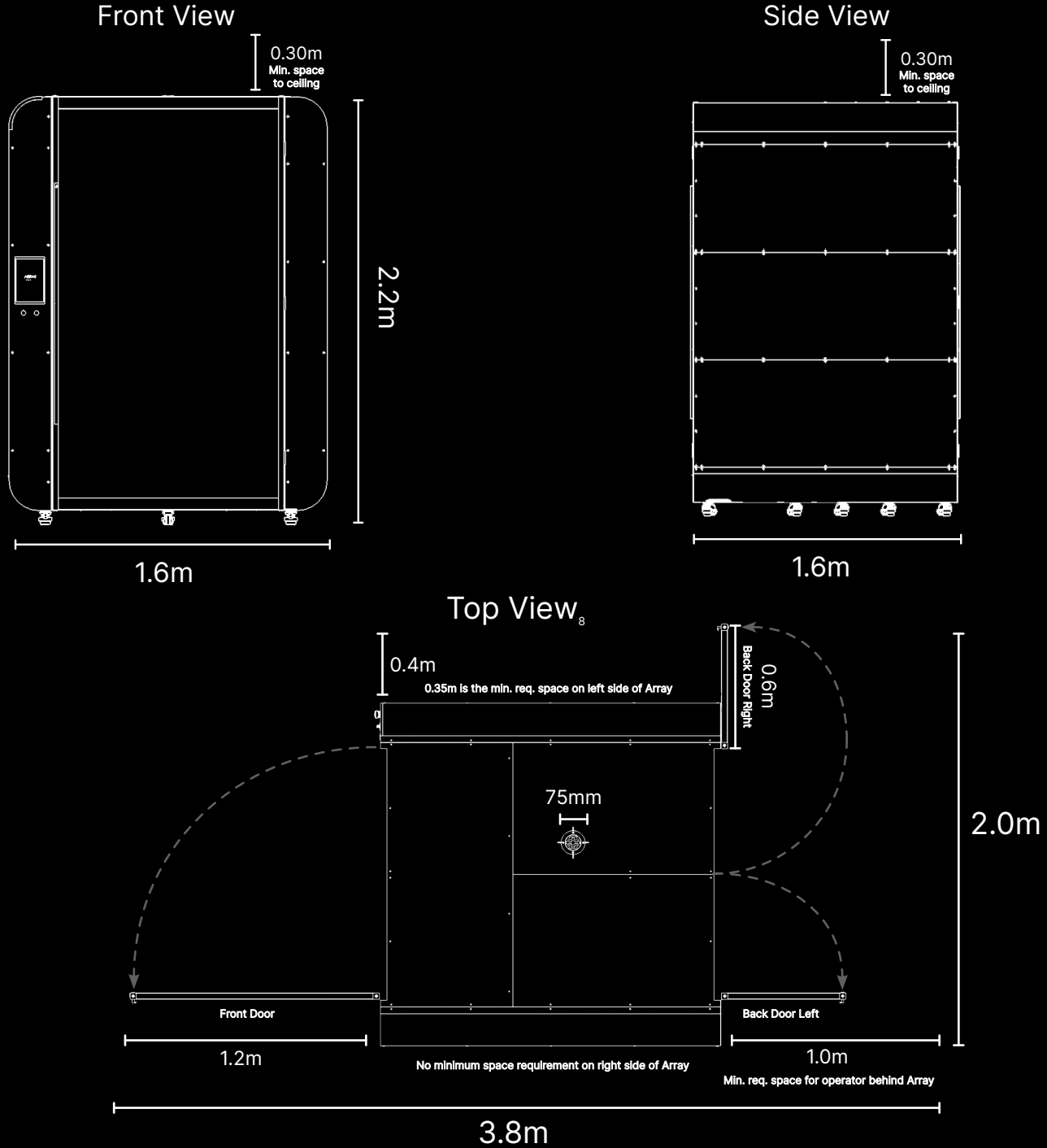
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## Specification Sheet

<b>Construction</b>	Durable All Metal Motion Systems, aluminum outer chasis
<b>Layer Resolution</b>	20-320 Microns
<b>XYZ Resolution</b>	10µm, 4µm, 10µm (X ,Y, Z)
<b>Build Volume</b>	4 Modules of 14"x14"x14" (2744 cubic inches each)
<b>Build Speed</b>	100 mm/s
<b>Build Plate</b>	Spring steel build plate with various coatings, automatically changed via internal robotic system
<b>Heated Bed<sub>5</sub></b>	0-120°C
<b>Thermal Chamber<sub>5</sub></b>	0-80°C
<b>Nozzle</b>	0.4mm hardened steel nozzle
<b>Max Nozzle Temp<sub>5</sub></b>	300°C-500°C
<b>Fume Extraction</b>	Integrated exhaust fan with HEPA filter; optional 3" external fume extraction hook-up (not included)
<b>Print Modules</b>	4 x independent Element Array modules
<b>Build Platform Changing</b>	Automated with Array build plate changing robotics
<b>Max Robotics Travel</b>	100mm/s, 100mm/s, 100mm/s (X,Y,Z)
<b>Available Print Materials<sub>6</sub></b>	Mosaic PLA, Mosaic PETG, Mosaic Origin, Mosaic Matrix, Mosaic Soluble M1, Mosaic ABS, Mosaic Breakaway, Mosaic PEEK, Mosaic PEKK, Mosaic Ultem 9085, Mosaic ESD
<b>Material Type</b>	Mosaic branded materials, other Mosaic Certified materials will also be supported
<b>Material Bays</b>	8 × 1500cc Material Pods Per Printer (12,000cc/Printer Total) 32 × 1500cc Material Pods in Array (48,000cc/Array Total)
<b>Software</b>	Canvas Array, Canvas Teams
<b>Connectivity</b>	WiFi, LAN (Ethernet)
<b>Operating Footprint</b>	1.6m x 3.2m x 1.6 m (5' 2" x 11' 2" x 5' 2" )
<b>Power Required</b>	230V AC, 30A
<b>Certifications</b>	CE, RoHS. TUV Field Certification (USA) / SPE-1000 (Canada)
<b>Warranty &amp; Service<sub>7</sub></b>	1 Year for Array

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## Product Diagrams



**Note:** All diagrams and technical specifications are approximate and subject to change.

5. High temperature beds, chambers and nozzles are only available on the Array HT configuration.

6. Industrial materials like Mosaic Peek, PEKK, and Ultem 9085 are only available for print on the Array HT configuration. Limitations on print size for these materials apply, please contact [sales@mosaicmfg.com](mailto:sales@mosaicmfg.com) to learn more.

7. See product warranty for full details, Array HT configurations include a 2 year warranty.

8. Exhaust Coupler OD is 75mm for 3" pipes, with a vertical depth of 40mm. Includes 4 x  $\varnothing$  5.3 mounting holes for M5 sized bolts.



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