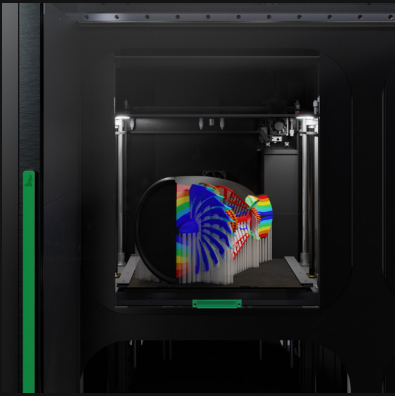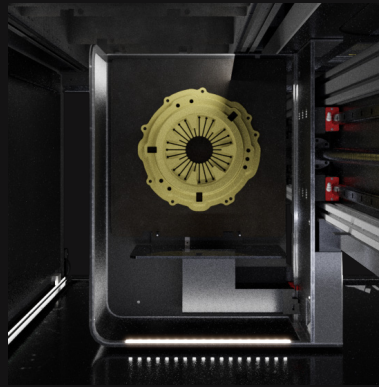# ARRAY
Product Sheet

High throughput and low cost
industrial 3D printing.

ARRAY
Key Features

Large volume prints in up to 8 different materials.

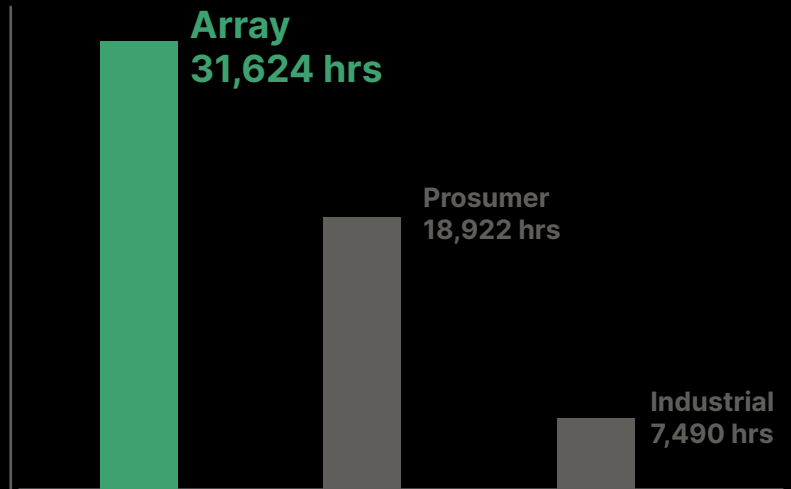**Automated systems increase throughput by up to 10 times.**[1]

Integrated storage cart maximizes printer uptime.

- ✓ Starting at **$59,999 USD**. Shipping begins **December 2021**
- ✓ Support for industrial materials including **PEEK, PEKK and Ultem 9085**
- ✓ **72+ hours of continuous** unattended operation[2]
- ✓ **95% more cost effective** on a per print basis[3]
- ✓ **Automated** print bed removal, changeover, and failure detection
- ✓ **Automated** material changeover and runout detection with **Palette X**

Total Print Hours Per Year

↑58%

Throughput increase when compared to other similarly spec'd 3D printing solutions.[4]

Array 31,624 hrs

Prosumer 18,922 hrs

Industrial 7,490 hrs

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1. Research based on currently available commercial 3D printers with comparable specifications being run in normal operating conditions.
2. Continous runtime is measured as back-to-back print jobs, without print or material failure and/or print material changeover 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 Indsutrial 3D printing FFF systems.
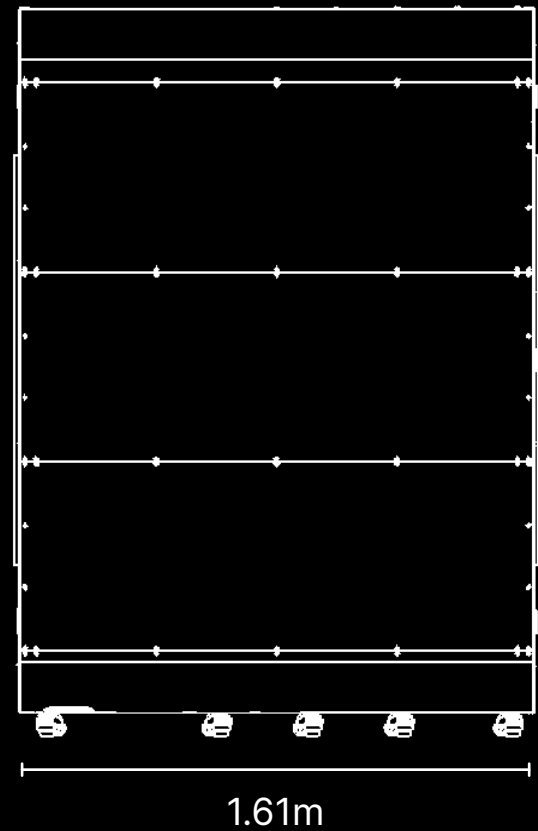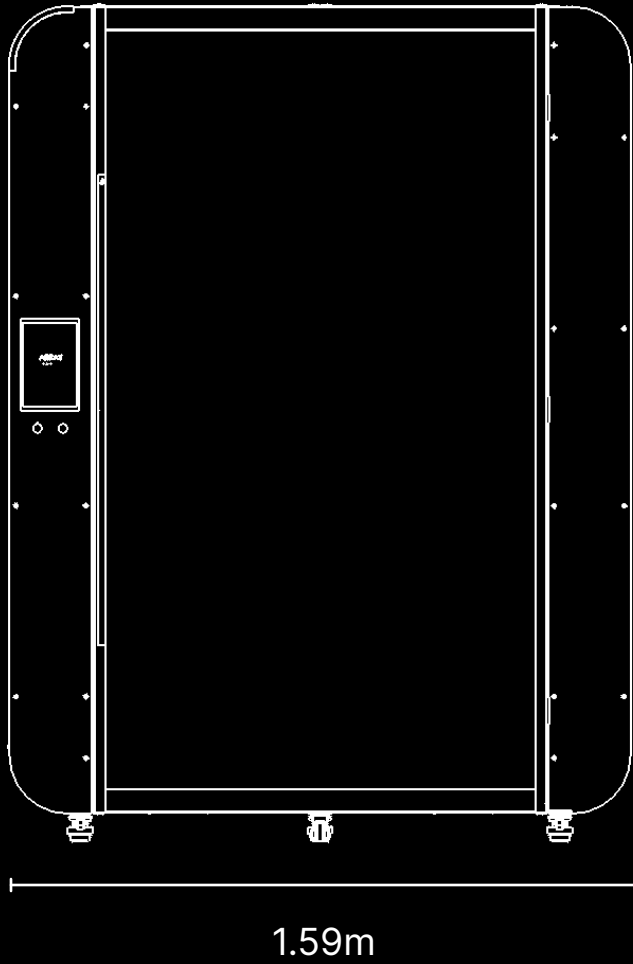
ARRAY
Specification Sheet

Construction	Durable All Metal Motion Systems, Aluminum Outer Chasis
Layer Resolution	20-230 Microns
XYZ Resolution	10μm, 4μm, 10μm (X ,Y, Z)
Build Volume	4 Modules of 14"x14"x14" (2744 Cubic Inches Each)
Build Speed	100 mm/s
Build Plate	Spring Steel Build Plate, Automatically Changed via Internal Robotic Arm.
Heated Bed[5]	0-120°C
Thermal Chamber[5]	0-80°C
Nozzle	0.4mm Hardened Steel Nozzle
Max Nozzle Temp[5]	350°C-500°C
Fume Extraction	Integrated exhaust fan with HEPA filter optional external fume extraction hook-up (not included).
Print Modules	4 x Independent Element HT Array Modules
Build Platform Changing	Automated with Array build plate changing robotics.
Max Robotics Travel	100mm/s, 100mm/s, 100mm/s (X,Y,Z)
Available Print Materials[6]	Mosaic PLA, Mosaic PETG, Mosaic Origin, Mosaic Matrix, Mosaic Soluble M1, Mosaic ABS, Mosaic Breakaway, Mosaic PEEK, Mosaic PEKK, Mosaic Ultem 9085, Mosaic ESD
Material Type	Mosaic Certified, Other Materials Not Supported
Material Bays	4 Modules of 8 × 2kg (16kg per module) 32 × 2kg in the entire system (64kg of material)
Software	Canvas Array, Cavas Teams
Connectivity	WiFi, LAN (Ethernet)
Operating Footprint	1.6m x 3.2m x 2.1 m (5' 2" x 11' 2" x 5' 2")
Power Required	100V - 240V AC, 20A
Certifications	cTUVus, EN62368-1: 2014, EN55032: 2015, EMC, CE, RoHS
Warranty & Service[7]	1 Year

ARRAY
Product Diagrams

2.13m

1.59m

1.61m

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 XT configuration.
6. Industrial materials like Mosaic Peek, PEKK, Ultem 9085 and ESD are only availble for print on the Array XT configuration.
7. See product warranty for full details.

Mosaic