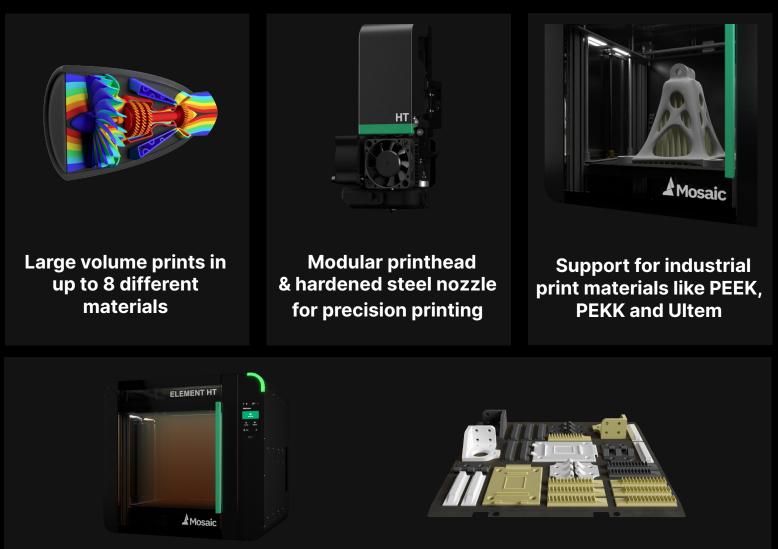


ELEMENT HT Product Sheet

High quality, multi-material, industrial grade 3D printing.





Heated bed & chamber for advanced thermal plastics, Element HT can print high-strength parts with tight tolerences.

- Starting at \$9,999 USD. Shipping begins November 2021
- Controlled remotely to monitor and start prints from anywhere
- Removable build plate speeds up and simplifies bed changes
- Automated calibration with onboard sensors further increases ease of use
- Automated filament changeover to maximize printer uptime
- \checkmark Cloud based print managment with Canvas software integration₂
- All metal construction and on-board UI to maximize usability

1. Mosaic Materials are specially made to work in Element HT and are strongly recommended when printing materials like PEEK, PEKK and Ultem . 2. Standard single user license included with both Element and Element HT.

ELEMENT HT Specification Sheet

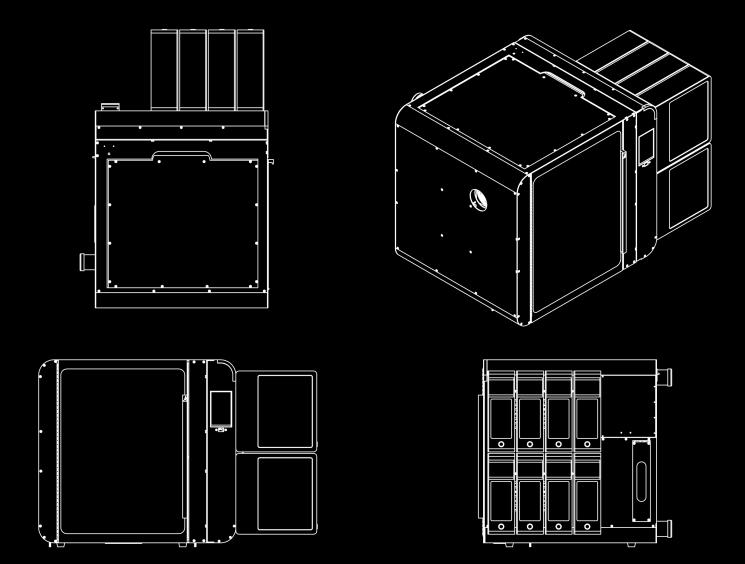
Technologies	Fused Filament Fabrication (FFF) enhanced with Mosaic's Patented Series Enabled Multi-Material Extrusion (SEME)
Build Envelope	356 × 356 × 356mm (14 × 14 × 14in)
Construction	Durable All-Metal Motion Systems
Layer Resolution	20-230 microns
XYZ Resolution	0.2mm,0.2mm, 0.01mm (X ,Y, Z)
Max Speed (Travel)	200mm/s
Build Speed	100mm/s
Build Plate	Various coatings on spring steel removable build plate for easy rapid build plate changes
Heated Bed	Max 120°C
Thermal Chamber	Heated, up to 80°C ₁
Air Filtration	HEPA filter to remove up to 97.5% of UFP's, and Activated Carbon Filter To Reduce VOC's
External Fume Extraction	Integrated 50mm (2 in) inlet and outlet for optional external fume extraction hook up (purchased separately)
Operating Sound	< 60 dBA
User Interface	On Board 5" Color Touch Screen or Remote Access from Canvas
Monitoring	Live camera inside chamber
Status Indidication	RGB Stack Light
Connectivity / File Transfer	WiFi, LAN, USB port
Compatible Models	Print Head 0.4, Print Head 0.4 HT ₁
Nozzle	0.4mm Hardened Steel Nozzle
Max Nozzle Temperature	500°C ₁
Servicibility	Modular extruder, removable In < 60s with a single tool
Sensors	filament homing, filament motion, T _{environment} , T _{hotend} , T _{coldend}

ELEMENT HT Specification Sheet

Filament Cartridges	Mosaic Material Pod V1
Filament Containment	Mosaic Filament Cartridges: Reusable, Environmentally Sealed Dry Boxes. 8 Provided with Element HT
Filament Bays	8 x Recievers for Mosaic Material Pods
Filament Loading	Automated Filament Load, Filament Retraction.
Filament Sensors	Filament homing, filament consumption meter, filament relative humidity, filament temperature
Filament Changover Model	Palette X - Automated Material Server Module including filament drives, a material cutter, filament homing, and filament measurement systems.
Nozzle Cleaning	Integrated nozzle wiping pad for materials up to 350°C,wire nozzle wiping brush and integrat- ed high temp wiping pad for materials up to 500°C
Purge Container	Removable container with 38mm x 264mm x 253mm (X x Y x Z) of storage
Currently Supported Materials	Mosaic PLA, Mosaic PETG, Mosaic Origin, Mosaic Matrix, Dissolve LT, Mosaic ABS, Mosaic Breakaway LT. Mosaic PEEK, Mosaic PEKK, Mosaic Ultem 9085, Mosaic ESD. TPE Not Supported ₃
3rd Party Filament Support	The system is open to support 3rd party materials, and any materials that fit in Mosaic's Material Pod will be able to access material automation and multi-material 3D printing.
Dimensions	911mm x 634mm x 613mm (X x Y x Z) (With 8 Material Pods)
Net Weight	26 kg (57 lbs) (With 8 Material Pods, No Filament)
Gross Weight	50 kg (110 lbs) (With Packaging and Pallet)
Supplied Software	Canvas. Free print preparation software with optional paid functionality.
Supported OS	MacOS, Windows, and Linux
Power Supply Input	100V - 240V AC, 50/60 Hz, 230V @2A
Certficiations	cTUVus, EN62368-1: 2014, EN55032: 2015, EMC, CE, RoHS
Warranty	24 months for Element HT_4

The heated chamber, Print Head 0.4 HT and high temperature nozzle are only available on Element HT.
 A wire nozzle wiping brush and integrated high temp wiping pad are included with the Element HT configuration.
 TPE (Thermoplastic Elastimer) as well as many TPU (thermoplastic eurothane) materials are not supported for printing in Element. Mosaic Flex is recommended.
 See individual product warranty for full details.





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

- 5. High temperature beds, chambers and nozzles are only available on the Element HT configuration.
 6. Industrial materials like Mosaic Peek, PEKK, Ultem 9085 and ESD are only available for print on the Array XT configuration.

7. See product warranty for full details.



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