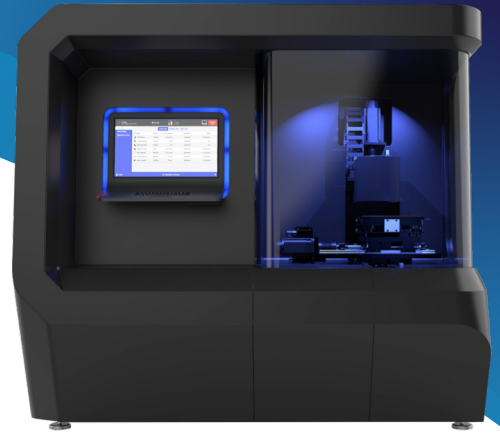




ElemX™ 3D Printer

Additive Manufacturing for a more flexible and resilient supply chain.



System Specifications*

SYSTEM CONFIGURATION

ADDiTEC Provides

- Printer
- Chiller
- Slicer software
- Build plate removal tool
- Initial supplies kit

Customer Provides

- PC for software
- Quench tank for part removal
- Hoist/Crane for part removal
- Ultra high Purity (99.999%)
- Compressed air
- Distilled water for chiller

PERFORMANCE

Build Volume

12 in x 12 in x 4.7 in /
300 mm x 300 mm x 120 mm

Maximum Build Rate

0.5 pounds/hour / 84 ccc/hour
(2 pound part maximum)

Dimensional Accuracy

- XY: +/-0.6 mm
- Z: +/-0.5 mm

Minimum Layer Thickness

0.24 mm

Heat Treatment

As required

Secondary Processing

As required

Inert Gas

Argon in printhead region

Surface Finish

Sand cast comparable

Density

>98.5%

- Distilled water for chiller

WEIGHT AND DIMENSIONS

Printer Weight

4730 lbs / 2146 kg

Printer Dimensions (L x W x H)

9.3 ft x 4 ft x 7.3 ft /
284 cm x 125 cm x 221 cm

Chiller Weight

340 lbs / 154 kg

Chiller Dimensions (L x W x H)

2.5 ft x 1.6 ft x 2.2 ft /
78 cm x 44 cm x 66 cm

Total Space Required (L x W x H)

20.5 ft x 12.4 ft x 10.3 ft /
624 cm x 326 cm x 320 cm

POWER

Printer

- 50 amp
- 480V 3 phase
- 4 wire

Chiller

- 30 amp
- 230V single phase

Build Plate Removal

No power required (mechanical)

SLICER

Features

- Import format: STL
- Move/rotate/scale
- Center on build plate
- Set process parameters
- Slice
- Export g-code

PC Requirements

- Windows 10 operating systems
- Memory: 16 GB RAM min

The world's first liquid metal printer using aluminum wire that's widely available and safe to use, the ElemX exemplifies simplicity and efficiency. Our proprietary process eliminates the need for many traditional 3D post-processes and equipment, meaning a shorter time from start-to-part. The ElemX features an in-house-developed software suite and in-process monitoring system to optimize the printing process.

LIQUID METAL AT A GLANCE

- Uses off-the-shelf materials – currently wire aluminum 4008
- No powder removal, debinding or sintering means shorter cycle times
- Known material properties are as good or better than input material
- Requires only basic safety measures around heat and argon gas

MATERIALS

356 (4008) Aluminum Alloy

Input Material Weight

20 lbs / 9.1 kg spool

Wire Diameter

.062 in / 1.6 mm



For more information visit ADDITEC3D.COM

*These specifications are subject to change without notice.
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