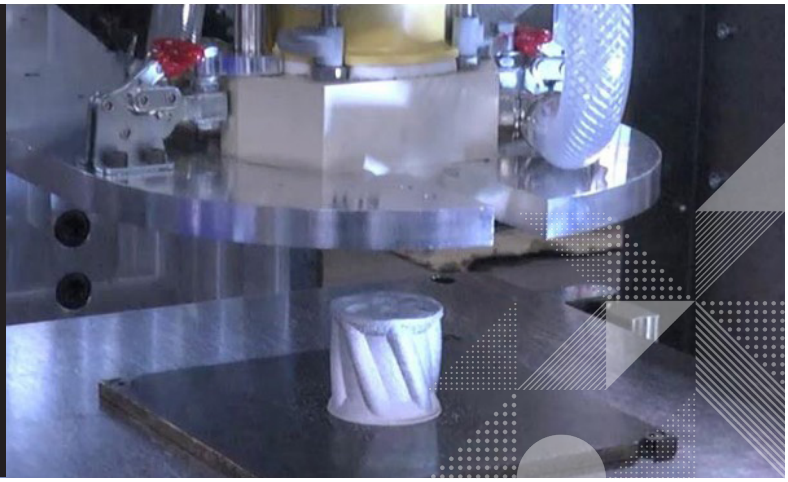
Xerox® ElemX™ 3D Liquid Metal Printer On-Demand Manufacturing

Simpler. Safer. Stronger.



Complex global supply chains leave manufacturers and their customers vulnerable to external risks. Introducing Xerox® ElemX™ 3D Printer, which uses liquid metal, adding greater flexibility and resilience to your supply chain.

EMPOWER YOUR MANUFACTURING SUPPLY CHAINS WITH LOCALIZED 3D PRINTING

- More resilient operations
- Reduced operational risk
- Increased production control

ELEMX™ 3D PRINTING SOLUTIONS

Enhanced Efficiency: Faster time to part with agile manufacturing that adapts to your business needs.

Lower Costs: Removes the hidden costs of inventory maintenance and warehousing and reduces logistics spend.

Increased Agility: Rapidly respond to market changes while reducing supply and shipping risks.

Customer-centric: Quickly deliver parts to customers, thanks to localized production.

Safety First: No need for facility modifications or PPE. Only basic safety measures around heat and argon gas.

Easy to Deploy: ElemX™ is easy to implement and install. It's ready to use the day it arrives.

Reduced Carbon Footprint: Increased materials efficiency and lower transportation costs.

> "By significantly lowering production costs and lead times for a variety of metal parts, 3D printing has the potential to transform the value chain…"
>
> **– McKinsey & Company**

Xerox® ElemX™ 3D Printer

THE XEROX ADVANTAGE

More than a century of experience in bringing business-critical technologies to market.

A highly respected global brand that customers hold to the highest standards with a network of readily available service manufacturers around the world.

We are now applying our **expertise in liquid physics, product development, and production-grade system design** to Additive Manufacturing.

For more information, contact us: 3DPrinting@xerox.com.

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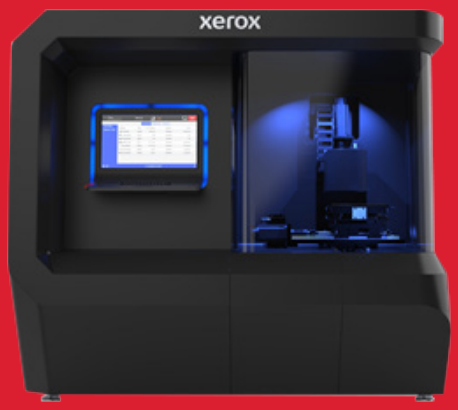


Xerox® ElemX™ 3D Printer

Additive manufacturing for a more flexible and resilient supply chain.

System Specifications*

SYSTEM CONFIGURATION

Xerox Provides

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

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

Maximum Build Rate
0.5 pounds per hour/84 ccc per 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%

WEIGHT AND DIMENSIONS

Printer Weight
4730 lbs/2146 kg

Printer Dimensions (L x W x H)
9.3 x 4 x 7.3 ft/
284 x 125 x 221 cm

Chiller Weight
340 lbs/154 kg

Chiller Dimensions (L x W x H)
2.5 x 1.6 x 2.2 ft/
78 x 44 x 66 cm

Total Space Required (L x W x H)
20.5 x 12.4 x 10.3 ft/
624 x 326 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)

MATERIALS

356 (4008) Aluminum Alloy

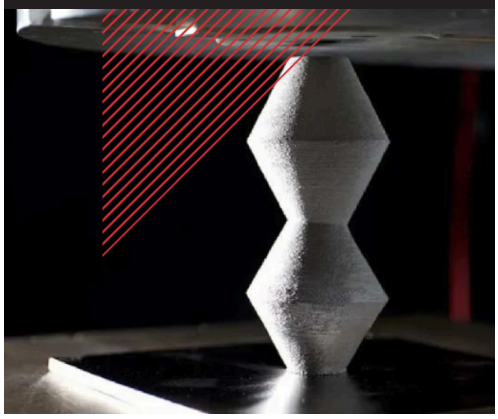
Input Material Weight
20 lbs/9.1 kg spool

Wire Diameter
.062 in/1.6 mm

*These specifications are subject to change without notice.

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



XEROX 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.

For more information, contact us: 3DPrinting@xerox.com.

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