THE MESA 1

Desktop metal 3D printing. Simpler, safer, smarter.

Prints and sinters solid copper and carbon steel parts in one patent-pending machine, from a standard 120 V wall outlet. No gas supply, binders, laser or separate furnace.



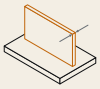
100×100×85 mm	460×610×915 mm	120 V	
LARGEST FINISHED PART	PRINTER W × D × H	WALL OUTLET	Reserve for $50

PRINT SPECIFICATIONS

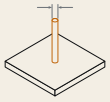
THE FINEST DETAIL THE MESA 1 HOLDS



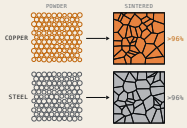
MIN LAYER HEIGHT
0.15 mm



MIN WALL THICKNESS
0.7 mm



MIN PIN DIAMETER
Ø 1.4 mm



DENSITY
>96%*



OVERHANG ANGLES
All supported



SHRINKAGE
Automatic

SYSTEM

Process	Scaffold Contrast Sintering (SCS), patent-pending
Dimensions (W×D×H)	460 × 610 × 915 mm (18 × 24 × 36 in)
Power	120 V, standard wall outlet
Connectivity	Ethernet, Wi-Fi, USB
Furnace	Built-in sintering furnace; parts sinter in place in the crucible
Atmosphere	Internal crucible seal and oxygen-removing chemistry; no gas generator required
Ventilation	Exhaust port, vented outdoors or through an air filtration system

BUILD

Crucible, small	50 × 50 × 85 mm max part size
Crucible, medium	75 × 75 × 85 mm max part size
Crucible, large	100 × 100 × 85 mm max part size
Supports	None needed; all overhang angles supported by the scaffold
Build plate	None; parts print directly into the crucible
Shrinkage	Isotropic; compensated automatically by the slicer
Cycle time	24–48 h typical, including sintering; up to 72 h for the largest parts

SOFTWARE

Slicer	Runs on your computer; generates the scaffold, and calculates and compensates for shrinkage
File formats	STL, STEP, OBJ, 3MF, Parasolid (.x_t)

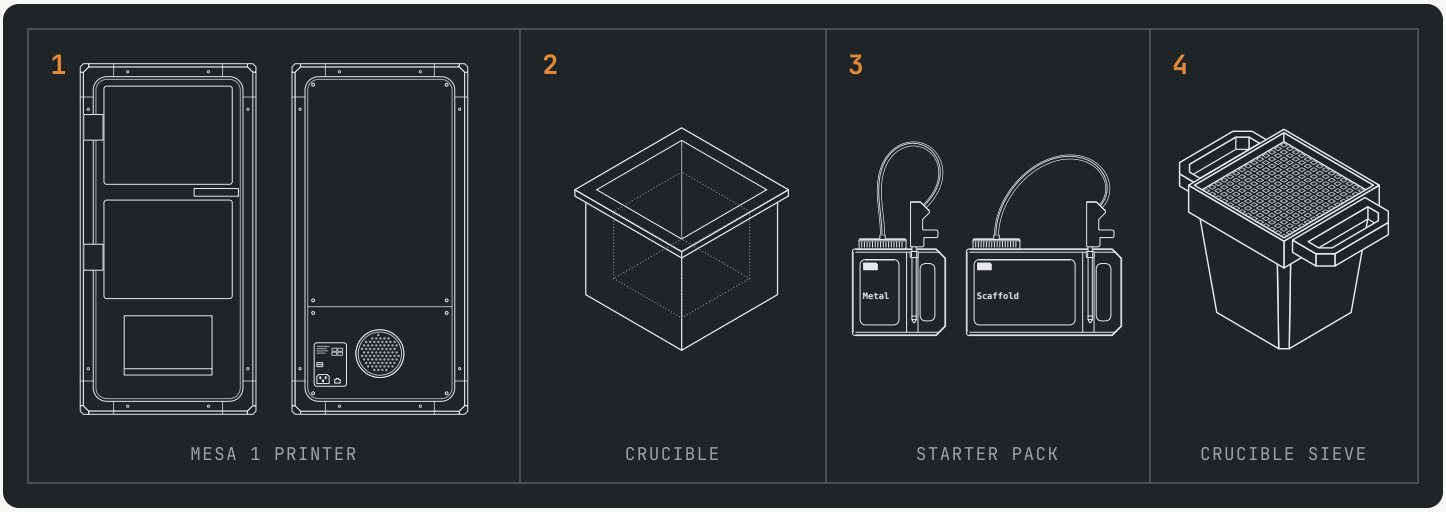
MATERIALS

Metals at launch	Copper, carbon steel
Feedstock	Metal powder and scaffold powder in fully sealed cartridges
Metal powder	1 kg (250 ml) 2 kg (500 ml) 4 kg (1,000 ml)
Scaffold	2 L

*Density tested by the Archimedes method. Preliminary specifications, subject to change before shipping.

THE EARLY-BIRD KIT

EVERYTHING IN THE BOX



	ITEM	DETAIL	QTY
1	**Mesa 1 printer**	Runs from a standard 120 V outlet	1
2	**Crucible**	Small, medium or large, chosen at checkout	1
3	**Material Starter Pack**	1 kg copper or carbon steel powder, chosen at checkout; 2 L scaffold	1
4	**Crucible Sieve**	Tapered basket with a mesh deck and two handles, for part removal and scaffold containment	1

MATERIAL PACKS

SEALED CARTRIDGES

PACK	METAL POWDER	SCAFFOLD	PRICE
Starter in kit	1 kg (250 ml)	2 L	$199
Maker	2 kg (500 ml)	2 × 2 L	$379
Pro	4 kg (1,000 ml)	4 × 2 L	$719

Material pack upgrades and additional materials available at checkout.

AVAILABILITY

Kickstarter	Opens December 1st, 2026
Shipping regions	United States, Canada, Europe
First units ship	End of 2027
Manufacturing	Made in the USA

SAFETY & COMPLIANCE

- **No loose metal powder.** Metal comes in sealed cartridges and all of it ends up in the part.
- **No laser, no binders.** No condensate particles, no debinding solvents or volatiles.
- **No process gas or vacuum.** No hydrogen or other flammable gases.
- **Furnace protection.** Metallurgical-grade heating elements, platinum-type thermocouples, redundant temperature sensing inside and outside the furnace.
- **Fault detection** across hardware, firmware and software, on custom control electronics.
- **Interlocks.** Printer door and furnace lid lock automatically during operation.
- **Failed prints** run an accelerated sinter cycle into one solid piece for safe disposal.
- **Certification.** UL and CE certified before shipping. Safety Data Sheets for all materials.

EARLY-BIRD KIT
$3,500

KICKSTARTER
Dec 1, 2026

DEPOSIT
$50, refundable

SHIPS
End of 2027

Reserve for $50

Questions? contact@studio3e8.com
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