

Real metal printing a lab can simply buy.

A 120 V circuit, a bench you already own, and every process parameter open to you.

BUILD VOLUME	LASER	LAYER	POWER
Ø30 × 60 mm	200 or 300 W fiber	15–100 µm	120 V · max 2.5 kW

\$59,000

200 W · 300 W is \$64,000



- An experiment costs grams**
 71 g of steel or 41 g of titanium for a set of test parts.
- It sits on a bench**
 ≈100 kg on a standard laboratory bench, 120 V single phase. No three-phase, no dedicated room.
- Reproduce any process**
 Rebuild another machine's settings, qualify small, scale later.
- One hour to change material**
 Print, section and measure a new composition in a day.
- Open where it matters**
 Our own slicer, every parameter exposed, proven sets included.
- It grows with the work**
 A50 and A100 share the software and controls — what you develop here transfers.

NINE ALLOYS PROVEN TO DATE. THE LIST IS NOT CLOSED.

Stainless steel

Tool steels H13 · M300

Inconel 625 · 718

Ti-6Al-4V

Cobalt chrome

Aluminium

Magnesium alloys

Gold

Silver

Specifications and what it takes to run one.

71 g of 316L powder to run a set of test parts 10 mm tall.

POWDER TO START A BUILD	316L STEEL	TI-6AL-4V	ALUMINIUM
Test parts, 10 mm tall	71 g	41 g	25 g
A build of 20 mm parts	143 g	82 g	49 g
Dispenser filled to full height	453 g	260 g	156 g
Metal in the part itself – a 10 mm cube	7.9 g	4.5 g	2.7 g

Model	A30-200	A30-300
Technology	Laser powder bed fusion (LPBF)	
Build volume	Ø30 × 60 mm (Ø1.18 × 2.36 in)	
Laser	200 W fiber, 1064 nm	300 W fiber, 1064 nm
Laser spot size	75 µm (55 µm optional)	
Scan system	Galvo scan head + F-theta lens	
Max scanning speed	up to 12 m/s	
Layer thickness	15–100 µm	
Inert gas	Argon, < 2 L/min	
Material changeover	1 hour	
Software · file format	AO Build Studio + AO Build Slicer · STL	
Power supply	120 V AC, 1 phase, 60 Hz · dedicated 50 A circuit	
Power consumption	max 2.5 kW	max 2.5 kW
Dimensions (W × D × H)	1000 × 620 × 1100 mm (39.4 × 24.4 × 43.3 in)	
Weight	≈100 kg (220 lb)	
Alloys proven to date	9 – not a fixed list	
Price	\$59,000	\$64,000

What a system comes with

- AO Build Studio and AO Build Slicer, with proven parameter sets for the alloys you order.
- Build plate, powder dispenser, filters, seals and the tools for a material change.
- **Installation and operator training**, with a named engineer on the account.
- **Warranty**: 12 months on laser, scanner, blower, motors and electrical systems.
- **Lead time**: some configurations ship from stock; built to order is 12–16 weeks.

What you will also need

- **Required**: wet vacuum cleaner (explosion-proof for reactive metals) and a sieving machine.
- **Recommended**: heat-treatment furnace, bandsaw or small lathe, polishing tool.
- **Serviceable in your own lab**: filters, seals, hoses and recoater blades are ordinary components you can source locally.

The rest of the line, when the work outgrows the A30

A30

Ø30 × 60 mm · 200 or 300 W fiber · 120 V, single phase

from \$59,000

A50

Ø50 × 100 mm · 300–1000 W · blue laser and 900 °C plate optional

from \$89,000

A100

Ø100 × 100 mm · 300–1000 W · blue laser and 900 °C plate optional

from \$99,000

The same slicer, the same controls, the same file. A process developed on an A30 transfers to the larger machines without being rebuilt.



Designed and manufactured by Additive Plus in Gardena, California — spares, service and your engineer are all here. Tell us the alloy and the part, and we will say what an A30 does with it.

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