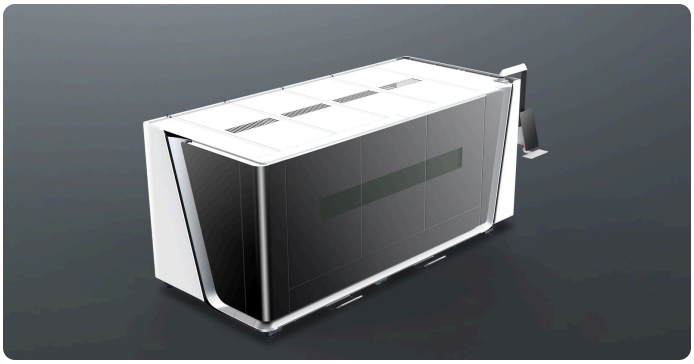
A-I Series

Compact, fully enclosed fiber laser cutter in three sizes

Ascent Lasers Pro
Cut. Weld. Clean. Powered by light





The A-I Series is for shops with limited floor space. It is a fully enclosed machine with laser protective glass and door-open protection, and it comes in three sizes, up to a full 5 ft x 10 ft sheet. Ask us for the floor plan and we will check it against your shop.

Technical data

	5 ft x 10 ft	3.3 ft x 6.6 ft	3.3 ft x 4.9 ft
Working area	3048 x 1524 mm (120 x 60 in)	2000 x 1000 mm (79 x 39 in)	1000 x 1500 mm (39 x 59 in)
Laser source	3 kW or 6 kW	3 kW or 6 kW	3 kW or 6 kW
Max. linkage speed	91 m/min (299 ft/min)	91 m/min (299 ft/min)	91 m/min (299 ft/min)
Max. acceleration	1.5 G	1.5 G	1.5 G
Positioning accuracy	±0.05 mm/m (±0.00197 in/m)	±0.05 mm/m (±0.00197 in/m)	±0.05 mm/m (±0.00197 in/m)
Repositioning accuracy	±0.03 mm (±0.00118 in)	±0.03 mm (±0.00118 in)	±0.03 mm (±0.00118 in)
Z-axis travel	Ask us	Ask us	100 mm (3.94 in)
Table load	Ask us	Ask us	250 kg (551 lb), a 20 mm (0.79 in) sheet
Machine size (L x W x H)	Ask us	Ask us	2956 x 2280 x 2004 mm (9.7 x 7.5 x 6.6 ft)
Machine weight	Ask us	Ask us	1840 kg (4,057 lb)
Total power and current, 3 kW source	Ask us	Ask us	19.2 kW / 47.8 A
Total power and current, 6 kW source	Ask us	Ask us	31.6 kW / 60.0 A
Average power use per hour, 3 kW source	Ask us	Ask us	12.9 kWh
Average power use per hour, 6 kW source	Ask us	Ask us	18.3 kWh
Thinnest sheet	0.8 mm (0.0315 in)	0.8 mm (0.0315 in)	0.8 mm (0.0315 in)
Screen	21.5 in	21.5 in	21.5 in

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Some functions and components are optional. Specifications and appearance may change without notice. The drawings and data shipped with the machine prevail.

Features

Anti-vibration cutting
On thin plate, the machine adjusts its sensitivity automatically to handle high-frequency vibration from gas pressure, which reduces defects.

Cutting parameter AutoMatch
It guides the operator through parameter adjustment.

Anti-burning mineral casting plate
The modular plate separates slag automatically and is easy to replace.

Remnant layout
The built-in camera captures an image of the remnant and arranges shapes in the available space.

Visual collision detection and active obstacle avoidance
Sensors in the laser head detect an obstacle such as a tilted part, and the head avoids it.

Dust removal
A centrifugal fan is standard.

The machine has a stationary bed. Double pneumatic clamping is available as an option.

How thick it cuts

Laser source	Carbon steel with oxygen	Stainless steel with nitrogen
3 kW	16 mm (0.63 in)	12 mm (0.47 in)
6 kW	25 mm (0.98 in)	20 mm (0.79 in)

Reference figures for stable cutting. Material quality and gas quality can change them.

Cutting samples



Warranty and what is included

- 5 years on the laser head, the laser source and the control system
- 3 years on the entire system
- Shipping, on-site installation and training included in the price
- Free ongoing software updates and lifetime remote technical support, with technicians in Buffalo, Toronto and Kentucky
- Ascent laser complies with applicable FDA laser product requirements. ETL-certified.

Each machine's warranty agreement sets out the full terms.

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