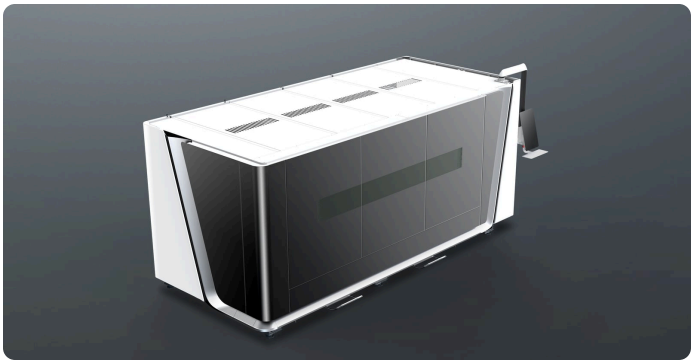
A-I Series

Space-efficient, fully enclosed laser cutter in three sizes

Ascent Equipment





Space-efficient, fully enclosed laser cutter, ideal for shops with limited floor space. Door-open protection and laser protective glass come with the cabinet, and the three sizes run up to a full 5x10 ft sheet. Send us your floor plan and we'll see how it fits.

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

Ascent Equipment | 1-800-927-5107 ext. 1008 | 647-494-7800 ext. 1008 | ascentequipment.com

Not every function or component shown here is on the standard machine. We may change specifications and appearance without notice. What ships with your machine, including its drawings and data, governs.

Features

Anti-vibration cutting
On thin sheet, the machine retunes its sensitivity to deal with fast vibration from gas pressure, so you get fewer bad parts.

Cutting parameter AutoMatch
The system walks the operator through the settings.

Mineral casting plate
This anti-burning plate comes in modules, sheds slag on its own and swaps out easily.

The bed is stationary, and double pneumatic clamping is optional.

Remnant layout
A built-in camera photographs the offcut and fits shapes into the space it finds.

Visual collision detection and active obstacle avoidance
If a cut part tips up, sensors in the head spot it and steer around it.

Dust removal
Comes standard with a centrifugal fan.

Cutting thickness

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)

Figures for steady production cutting. Your material and gas quality can move them.

Cutting samples



Warranty and support

- 5 years: Laser head, laser source, control system
- 3 years: Entire system
- Included: Shipping, on-site installation, and training.
- Ongoing software updates at no additional cost, and lifetime remote diagnostics and assistance, with technicians located in Buffalo, Toronto, and Kentucky
- Ascent laser equipment meets FDA/CDRH laser-product requirements. ETL-certified.

Full terms are provided in the machine's warranty agreement.

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