A-C Series

Fully enclosed 5x10 ft laser cutter with an exchange table

Ascent Equipment



Fully enclosed 5x10 ft laser cutter with an exchange table for enhanced safety and production efficiency. The next sheet goes on the table outside the cabinet, which suits long runs of panels and back plates. It reaches 2.5 G and 180 m/min (590 ft/min).

Technical data

Laser source	3 kW or 6 kW
Working area	3048 x 1524 mm (120 x 60 in, 10 x 5 ft)
Guarding	Full enclosure with door-open protection
Table	Exchange table
Max. linkage speed	180 m/min (590 ft/min)
Max. acceleration	2.5 G
Positioning accuracy	±0.05 mm/m (±0.00197 in/m)
Repositioning accuracy	±0.03 mm (±0.00118 in)
Z-axis travel	320 mm (12.6 in)
Table load	911 kg (2,008 lb), a 25 mm (1 in) sheet
Machine size (L x W x H)	9392 x 2232 x 2307 mm (30.8 x 7.3 x 7.6 ft)
Machine weight	4150 kg (9,149 lb)
Total power and current, 3 kW source	26.5 kW / 61.9 A
Total power and current, 6 kW source	39 kW / 74.1 A
Average power use per hour, 3 kW source	20.3 kWh
Average power use per hour, 6 kW source	25.6 kWh
Thinnest sheet	0.8 mm (0.0315 in)
Screen	21.5 in

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

One-click processing
A single command finds the sheet edge, checks the cutting range and starts the cut.

Visual edge positioning
Vision locates the edge of the sheet.

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

Nesting software
Gets more parts out of every sheet.

Cable harness
Tidy routing keeps power levels apart, which cuts down on interference.

Visual collision detection
The machine looks ahead for likely collisions and warns you first.

Active obstacle avoidance
If a cut part tips up, sensors in the head spot it and steer around it.

Remnant layout
Photograph an offcut and upload it, and the machine locates the piece and nests parts onto it.

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

Dust removal
A centrifugal fan and enhanced-partition dust removal come standard.

You can add bevel cutting, laser scanning cutting or a sheet loading module. Pick scan-and-cut and you give up active anti-collision and Cutting parameter AutoMatch.

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.

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.