

▲ DANGER
AVOID EXPOSURE - Visible and invisible
laser radiation is emitted from this opening.
0849527

LC- α II SERIES

High Speed Laser Cutting Machines

LC- α II Series

The LC- α II series is specifically designed for the high-volume, short-run production of sheetmetal parts.

The LC- α II laser easily outperforms other machine styles with its quick setup, easy material handling, reliable high speed processing, and the automated unloading of multiple parts.

By integrating the 32-bit CNC and the turbine driven, RF excited, CO₂ laser oscillator into the machine frame and utilising a unique motion system, the LC- α II now requires half the floor space of other machine styles.

Clearly the LC- α II raises laser cutting technology to a new, higher level. It provides the inherent flexibility of laser cutting, while delivering a level of production associated with punch presses.

Performance Features:



Fully Integrated Fanuc Control and Laser

The Fanuc FS-16LB, 32-bit control can be configured with a 1,500W or 2,000W oscillator. The control and laser are integrated, providing comprehensive status and diagnostic information on the CNC screen.

Amada's custom FS-16LB control incorporates a Factory Resident Electronic Database, providing years of laser processing experience to the novice user. The control interface is designed to simplify operation and a 1.44MB, PC compatible floppy disk drive is included.

All of the turbine driven, RF excited, fast axial flow CO₂ lasers are integrated into the

machine frame for stable beam alignment. They feature an electronic shutter, automatic calibration, continuous power level monitoring and low gas consumption.

Specification

MAIN MACHINE		LC-1212all	LC-2415all
Maximum Processing Size		2540mm x 1270mm includes one reposition	5040mm x 1550mm includes one reposition
Axis Movement	X Axis	1270mm	2520mm
	Y Axis	1270mm	1550mm
	Z Axis	300mm	300mm
Rapid Axis Speed	X Axis	40m/min	40m/min
	Y Axis	40m/min	40m/min
	Z Axis	20m/min	20m/min
Cutting Speed		0-20m/min	0-20m/min
Maximum Plate Thickness 1500W (*2000W)	Mild Steel	9mm	9mm
	St/Steel	9mm (Oxygen cut) 3mm (*4mm) (Clean cut)	9mm (Oxygen cut) 3mm (*4mm) (Clean cut)
	Aluminium	3mm (*4mm) (Alumi-cut)	3mm (*4mm) (Alumi-cut)
Workchute		1250mm x 550mm	1550mm x 550mm
Maximum Sheet Weight		210 Kg	330 Kg
Positioning Repeatability		±0.005mm	±0.005mm
Assist Gas Change		Automatic (Total 5)	Automatic (Total 5)
Air Consumption		250 NI/min	250 NI/min
Power Consumption 1500W (*2000W)		33 KVA (*43 KVA)	33 KVA (*43 KVA)
		Excludes Chiller & Extractor	Excludes Chiller & Extractor
Machine Weight		4700 Kg	6100 Kg
		Includes Oscillator	Includes Oscillator



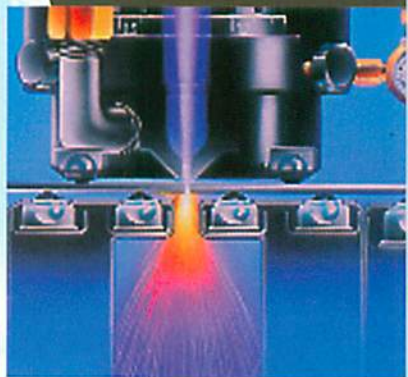
Scratch Free Material Handling

- Replacing support pins with free bearings allows loading and unloading of material to be done by one operator.



Double Cut Productivity

- Up to 80% productivity gains using the contact head and Amada's patented stacked sheet cutting technology.
- Positioning, piercing and cutting time is shared by several sheets increasing productivity and reducing cost per part.



Automated Part Unload

- Oversized, full material width work chute unloads parts automatically for continuous flow manufacturing and reliable, unattended operation.
- Unique machine design allows several parts to be unloaded in a single work chute operation.



Oxygen Cut

Standard laser processing.



Clean Cut

Prevents material burning, dross, and oxidized film layer formation.



Air Cut

Low cost processing.



Easy Cut (Option)

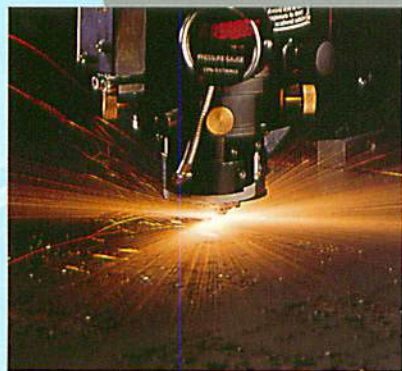
Optimum for processing coated steel sheets.





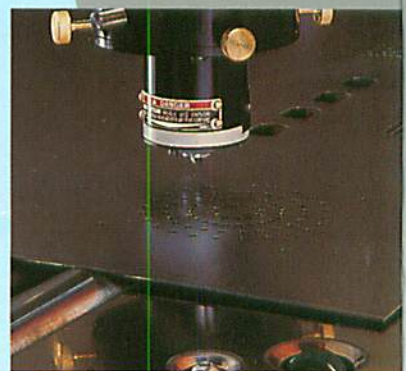
High Speed Piercing

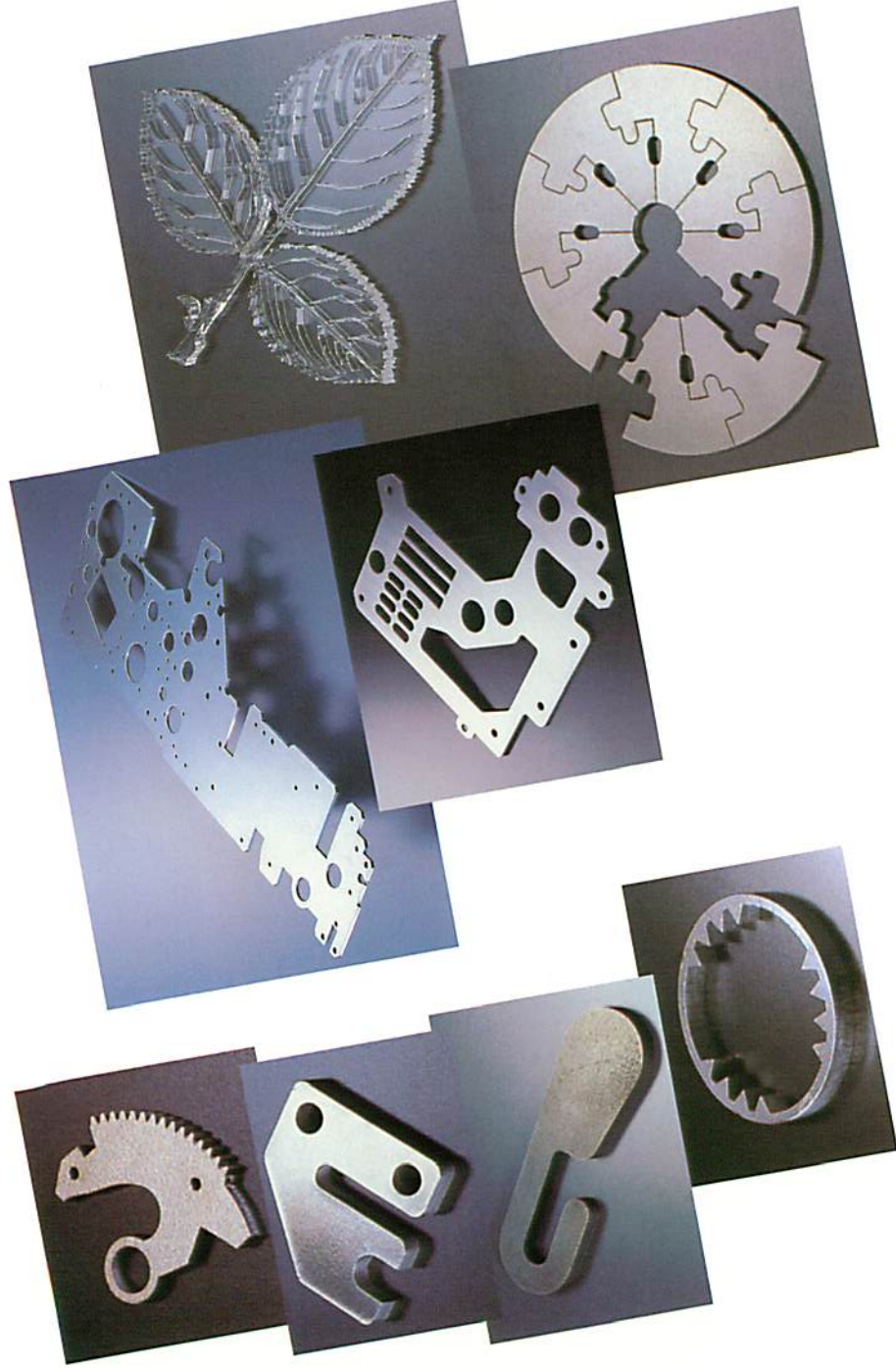
- Digitally controlled electronic shutter and advanced software provides rapid piercing.
- Delivers punch press like productivity.



Mark-Free Processing

- Synchronised stainless rollers and urethane discs prevent marking on the underside of the material.
- Fast reacting, non-contact, capacitive cutting head prevents top surface marking.





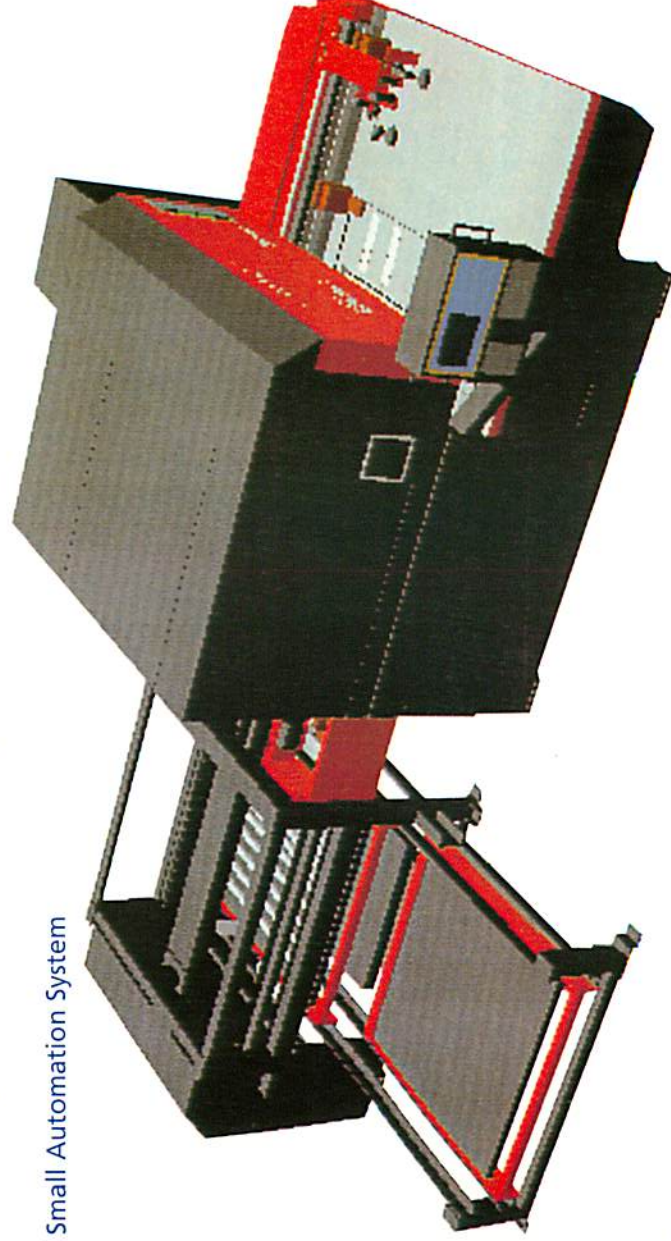
Wide Range of Automation Options

With punch press productivity and the laser's ability to cut any shape, the LC- α ll series is ideal for automated sheetmetal fabrication. Designed to produce scratch-free parts, the LC- α ll is particularly suitable for stainless and aluminium applications.

With a considerable number of installations throughout the world, Amada has the experience to make your sheetmetal automation project successful. From a single laser integrated with a single sheet load/unload unit to a full scale Flexible Manufacturing System, Amada can recommend systems to suit your productivity needs. Any of our turret punch presses, laser, combination machines, material handling systems and advanced part sorting equipment can be integrated into a seamless production system.

With automation, your investment will be working for you 8,760 hours a year with little supervision.

Ideal Small Automation System



AMADA
Amada United Kingdom Limited

SPENNELLS VALLEY ROAD, KIDDERMINSTER, WORCESTERSHIRE, DY10 1XS, ENGLAND.

Tel 01562 749500, Fax 01562 749510

All products shown without obligatory safety devices.

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