

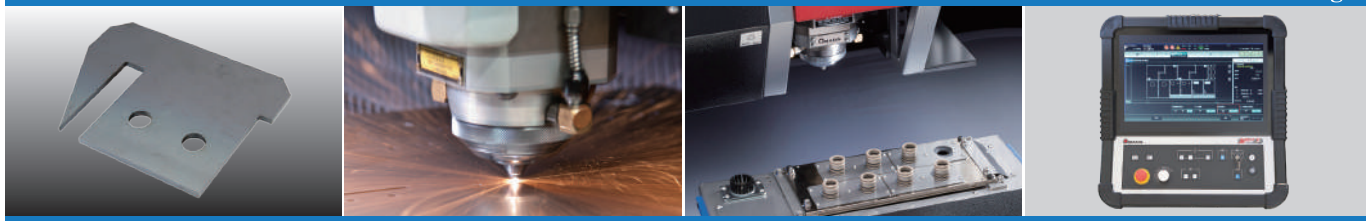
SOLUTION



High speed, high productivity
fiber laser machine
for large plate processing

LC VALSTER 6225 AJ G

Blanking



The Engineering AMADA



6kW 10kW



Supports large plate processing

High speed, high quality laser processing solutions for medium-thick and thick plates.
LC-VALSTER-6225AJ G debut!

① High speed piercing and high speed processing solutions for medium-thick and thick plates

Beam shaping technology, high power and long focus lens working in synergy.

② High quality and stable processing solutions

Processing visualization: Laser Integration System function.

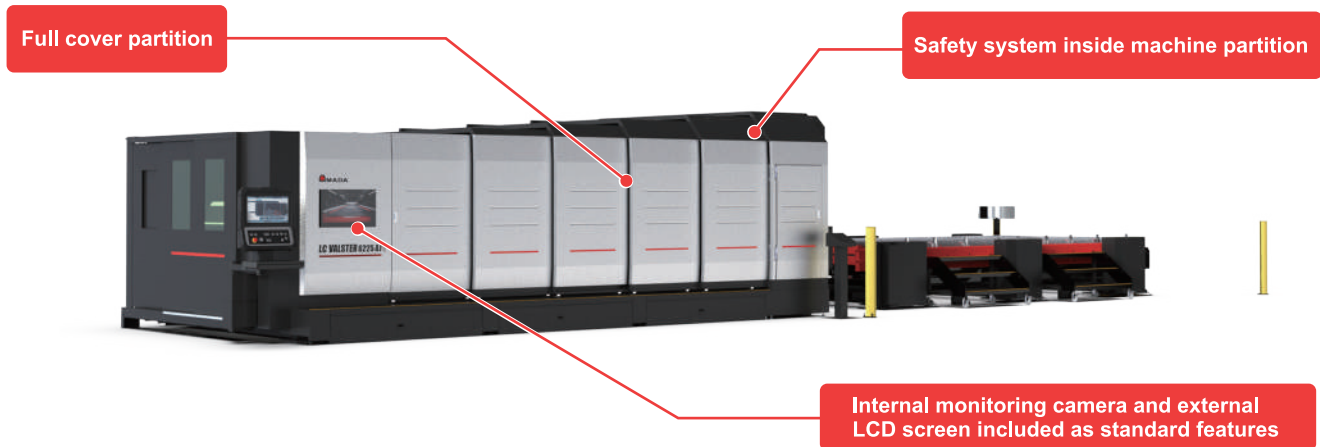
③ Solutions for large material processing

Expanded processing range: 6200mm x 2580mm.

④ Improved machine control with new AMNC3i-Plus operator's panel

Head control optimization Approach time reduction Micro-joint adjustment during operation

Rugged design



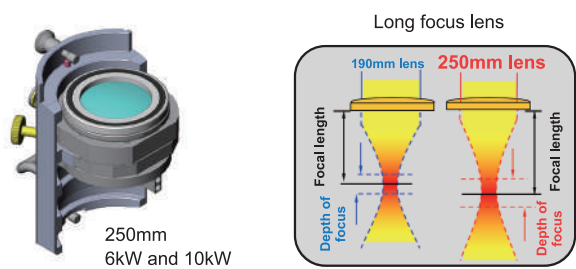
High speed, high productivity fiber laser machine for large plate processing, especially medium to thick plates

LC VALSTER 6225AJ G

Improved processing for wide range cutting

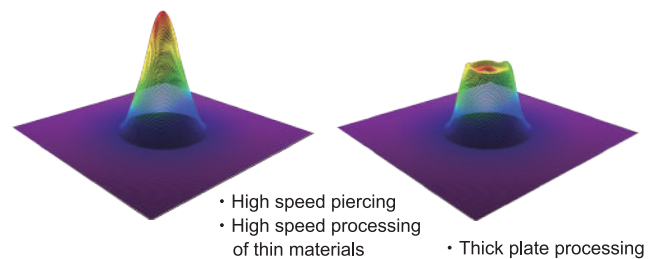
① One Lens operation and Long focus lens

High power oscillator uses longer focus lens for stable plate processing



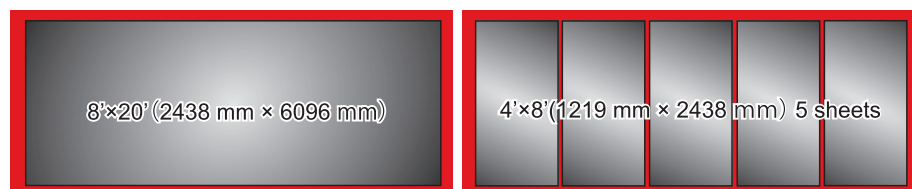
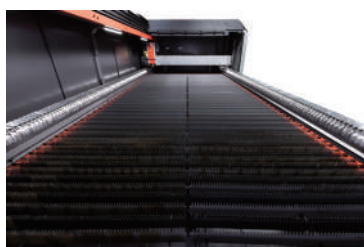
② Mode converter

High speed piercing and high speed processing by beam-shape control



Utilizing large table for flexible worksheet setup

Utilizing large cutting table for material setup flexibility



※The above picture is a representation only and is not true to scale.

Stable processing and Easy operation

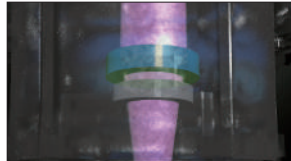
options

We reviewed various operations that rely on operators' skillset and know-how. LC-VALSTER is equipped with advanced functions that decrease the work load of an operator and improve work flow.

i-Optics Sensor

Diagnoses the condition of the protective glass (LIS*)

Periodically diagnoses the protective glass to ensure stable cut quality.



i-Process Monitoring

Monitors piercing and cutting condition (LIS*)

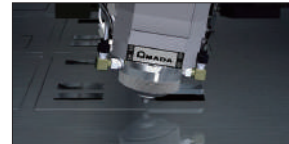
Piercing penetration detection and processing defects are detected by luminance sensor.



Preventing damage during head collision

Protecting cutting head while maintaining stable processing

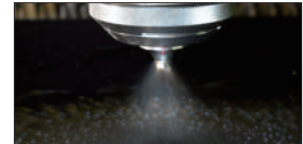
When a head collision is detected, the Z-axis instantaneously moves upward to prevent damage to the cutting head.



Cooling cut WACS II (Tank:30L)

Stable processing of thick mild steel

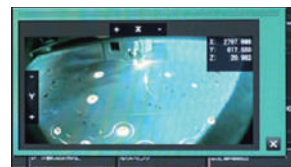
Material is cooled by a fine spray of water mist via the nozzle. Improves material yield and ensures stable processing.



Processing point camera

Monitors cutting status

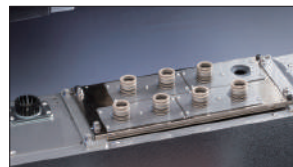
Real-time cutting status monitoring provides easy manual positioning and setup time reduction.



Automatic nozzle changer (8st)

Zero nozzle setup

Automatic nozzle replacement according to material and thickness. Periodic replacement is also possible.



HP EZ Cut

Reduction of processing cost

HP EZ Device can produce nitrogen rich gas that can be used as an assist gas. A separate compressor is required. (1300L/1.37MPa)



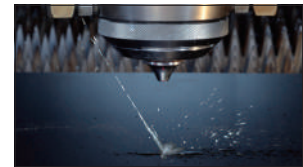
HP EZ Device

NOTE : Depending on local sales conditions, this option may not be available.

Oil Shot

High quality processing of medium thick mild steel

Oil spray for protection from adhesion of the spatter before piercing.



*LIS (Laser Integration System) is a generic term for operation support functions which reduce setup time.

My V-factory (Option)

Visualization of machine utilization and maintenance status

- Machine condition
- Cause of machine stopping
- Machine operation analysis

Visualization of machine operation, production and energy consumption

- Operating condition for the whole factory
- Machine performance (Production Results)
- Material usage and energy consumption



Example Conventional CO₂ lasers (4kW/6kW) vs LC VALSTER 6225AJ G (6kW/10kW)



- Material : Mild Steel
- Thickness : 19.0mm
- Size : 5212 x 1570mm
- Assist gas : Oxygen

model	Conventional CO ₂ lasers (4kW)	Conventional CO ₂ lasers (6kW)	LC-VALSTER 6225AJ G (6kW)	LC-VALSTER 6225AJ G (10kW)
Feed rate	F800	F900	F1100	F1400

Comparison of processing time **37.7%** reduction

Conventional CO ₂ Laser (4kW)	20min. 42sec.
LC-VALSTER 6225AJ G (6kW)	12min. 54sec.

Comparison of processing time **50.9%** reduction

Conventional CO ₂ Laser (4kW)	20min. 42sec.
LC-VALSTER 6225AJ G (10kW)	10min. 10sec.

Comparison of processing time **34.1%** reduction

Conventional CO ₂ Laser (6kW)	19min. 35sec.
LC-VALSTER 6225AJ G (6kW)	12min. 54sec.

Comparison of processing time **48.1%** reduction

Conventional CO ₂ Laser (6kW)	19min. 35sec.
LC-VALSTER 6225AJ G (10kW)	12min. 54sec.

■Dimensions

Unit : mm

■ LC-VALSTER-6225AJ G + Shuttle table (L : 17295 x W : 4060 x H : 2690)



■Machine specifications

Model	LC-VALSTER-6225AJ G		
Registered model name	VS6225AJG		
Axis travel method	X-axis and Y-axis: Rack & pinion Z-axis: Ball screw		
Max. processing size X x Y	mm	6200 x 2580	
Max. axis travel X x Y x Z	mm	6200 x 2580 x 200	
Rapid feed rate	X x Y Axis	m/min	120
	Z Axis	m/min	80
Cutting feedrate	m/min	0-120 (maximum commendable speed)	
Pass line	mm	940	
Max. material weight	kg	4020	
Oscillation method	LD-excitation Fiber laser		
Rated laser power	W	6000 / 10000	
NC model	AMNC-3i Plus		
Partition	Full-partition ceiling open / close integrated telescopic type		
Machine weight (main body only)	kg	17000	

■LST specifications

Shuttle table		LST6225
Maximum material dimensions	mm	6200 x 2580
Passing line	mm	940
Maximum work weight	kg	4020
Machine weight	kg	10000
Protective device		Area sensor

*Specifications, appearance and equipment are subject to change without notice by reason of improvement.

*The official model names of machines and units described in this catalog are non-hyphenated like LC VALSTER 6225 AJ G.

Use these registered model names when you contact the authorities for applying for installation, exporting, or financing.

The hyphenated spellings like LC-VALSTER-6225AJ G. are used in some portions of this catalog for sake of readability. This also applies to other machines.

*The specifications described in this catalog are for the Overseas market



For Your Safety

Be sure to read the operator's manual carefully before use.

●Use of this product requires hazard prevention measures to suit your work.



This laser product uses a Class 4 invisible laser for processing and a Class 3R visible laser for positioning.

- Class 4 invisible laser: Avoid eye or skin exposure to direct or scattered radiation. Never look into the radiation nor touch it.
- Class 3R visible laser: Avoid direct eye exposure.

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inquiry



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