

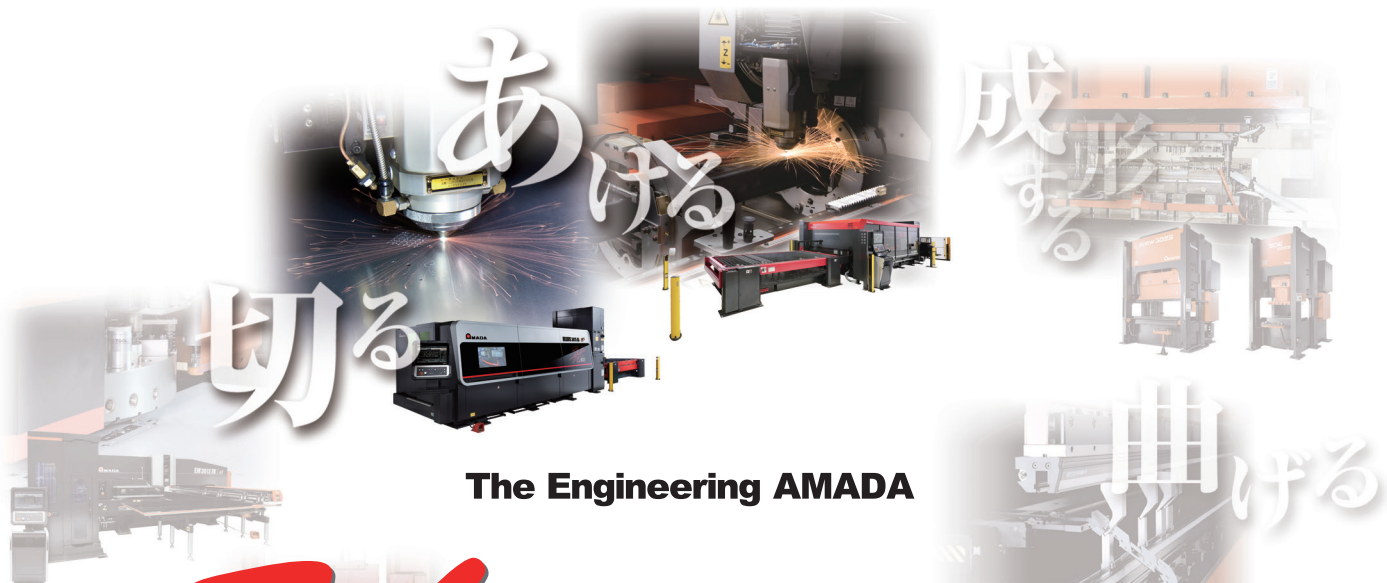
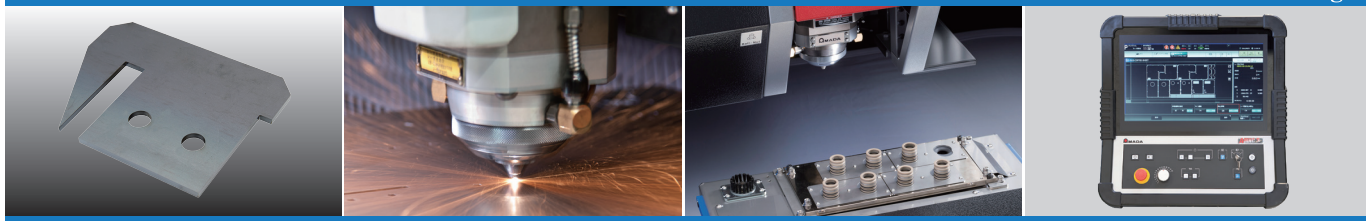
SOLUTION



Processing for thin,
medium and thick plates
High speed, high production
fiber laser machine

LC VALSTER 3015 AJ G

Blanking



The Engineering AMADA



研削



Rugged machine body adapted to various situations

Equipped with Beam-shape control technology and processing visualization functions.
LC-VALSTER-3015AJ G debut!

LC-VALSTER-3015AJ G enables high speed stable processing of thin to thick materials by utilizing beam-shape control technology.

High quality processing is possible thanks to i-Process Monitoring system.

Additionally various automated systems for detecting processing defects realizing more stable and high quality laser cutting are also included

Rugged design



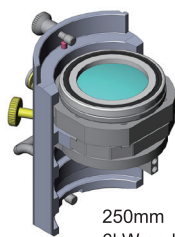
High speed, high production fiber laser machine

LC VALSTER 3015 AJ G

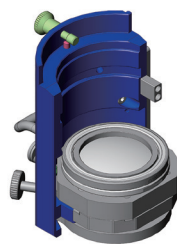
Improved machinability

① One Lens operation according to the machine power output

High power oscillator uses longer focus lens for stable thick material processing



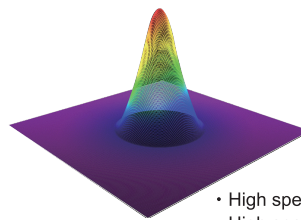
250mm
6kW and 10kW



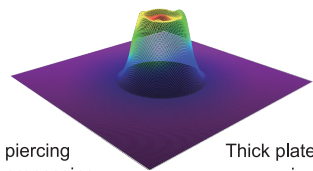
190mm
3kW

② Mode converter

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



- High speed piercing
- High speed processing of thin materials



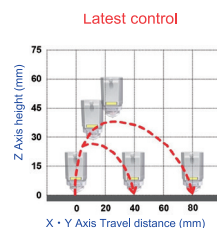
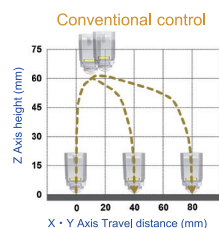
Thick plate processing

Improved machine controllability

AMNC 3i Plus



① Optimization of head control



② Adjustment of the joint amount during operation

Joint amount can be adjusted during operation. No need to change the CAM data to adjust the joint amount, this provides continued processing without stopping the machine.

Stable processing and Easy operation

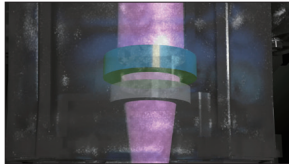
options

We reviewed various operations that tended to rely on work knowledge and know-how. VALSTER is equipped with various functions that do not interfere with the work flow.

i-Optics Sensor

Diagnoses the condition of the protective glass (LIS*)

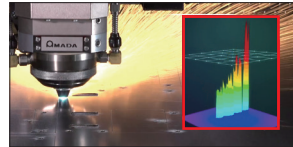
Periodically diagnoses the protective glass to ensure stable cut quality.



i-Process Monitoring

Monitoring Piercing and cutting condition (LIS*)

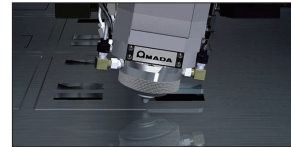
Piercing penetration detection and processing defects are detected by luminance sensor.



Preventing damage due head collision

Protecting the head and stable processing (LIS*)

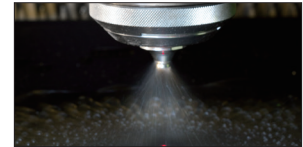
When a head collision is detected, the Z-axis instantaneously moves upward to prevent damage to the cutting head.



Cooling cut WACS II (Tank:20L)

Stable processing of thick mild steel

Water mist spray from nozzle to cool the material for stable processing for thick material and improved yield ratio.



Latest processing technology

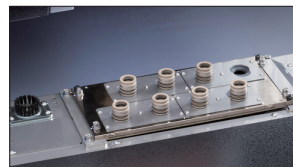
Medium thick plate incredibly high speed

By using the high power oscillator (6kW&10kW) and the new nozzle in the medium-thick plate, Incredibly high speed processing and operation at low running costs are possible by new processing technology "Clean Fast Cut" and "EZ Fast Cut".

Automatic nozzle changer (8st)

No 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 mild steel

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



*LIS (Laser Integration System) is a generic term for operation support functions, which greatly shortens the setup

My V-factory (Option)

Visualization of themachine maintenance and utilization status

- Condition of the machine
- Cause of the machine not running
- Machine operation analysis

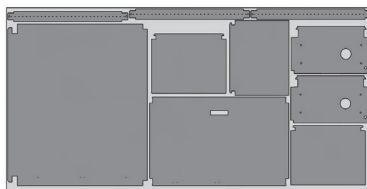
Visualization of machine operation, production, and consumption

- Operating condition of the whole factory
- Machine operation volume (Production & operation Results)
- Consumption of materials and energy

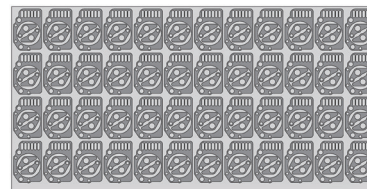


Example

Conventional CO₂ lasers (6kW) vs LC-VALSTER-AJ G (6kW)



- Material : Mild Steel
- Thickness : 2.0mm
- Size : 2438 x 1219mm
- Assist gas : Nitrogen



- Material : Mild Steel
- Thickness : 6.0mm
- Size : 2000 x 1000mm
- Assist gas : Nitrogen

	Conventional CO ₂ lasers (6kW)	LC-VALSTER-AJ G(6kW)
Process command speed	F5200	F25000

	Conventional CO ₂ lasers (6kW)	LC-VALSTER-AJ G(6kW)
Process command speed	F2400	F6000

Comparison of processing time **43.7% reduction**

Conventional CO ₂ Laser (6kW)		7min.10sec.
VALSTER-AJ G (6kW)		4min.2sec.

Comparison of processing time **57.9% reduction**

Conventional CO ₂ Laser (6kW)		1hr.32min.
VALSTER-AJ G (6kW)		38min.40sec.

■Dimensions

Unit : mm

■ LC-VALSTER-3015AJ G + Shuttle table (L : 9507 x W : 2953 x H : 2390)



■Machine specifications

Model	LC-VALSTER-3015AJ G		
Registered model name	VS3015AJ		
Axis travel method	X-axis and Y-axis: Rack & pinion Z-axis: Ball screw		
Max. processing size X x Y	mm	3070 x 1550	
Max. axis travel X x Y x Z	mm	3070 x 1550 x 150	
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	920	
Oscillation method	LD-excitation Fiber laser		
Rated laser power	W	3000 / 6000 / 10000	
NC model	AMNC-3i Plus		
Partition	Full-partition ceiling open / close integrated telescopic type		
Machine weight (main body only)	kg	8600	

■LST specifications

Shuttle table	LST3015G	
Maximum material dimensions	mm	3070 x 1550
Passing line	mm	940
Maximum work weight	kg	920
Machine weight	kg	3000
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 3015 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-3015AJ 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 Safe Use

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.

© AMADA CO., LTD. All Rights Reserved.

AMADA CO., LTD.

www.amada.com

inquiry



E144-HQ01en

Aug. 2022