



# SOLUTION

## ***ENSIS 6225 AJ***

PRECISION & QUALITY  
IN LARGE SHEET PROCESSING



# ENSIS 6225 AJ

## PRECISION & QUALITY IN LARGE SHEET PROCESSING

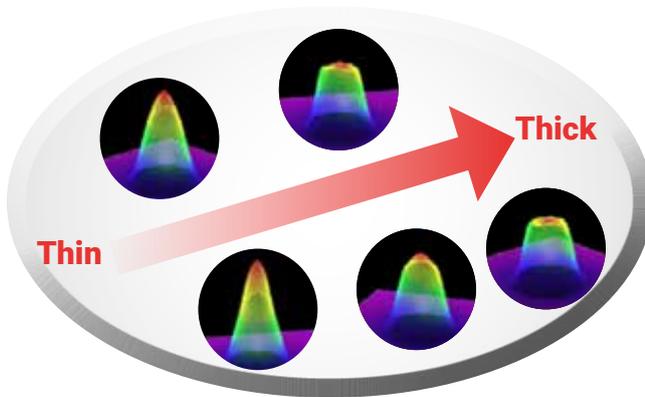
### MAXIMIZING EFFICIENCY

#### FEATURES AND TECHNOLOGIES FOR LARGER, THICKER CUTTING APPLICATIONS

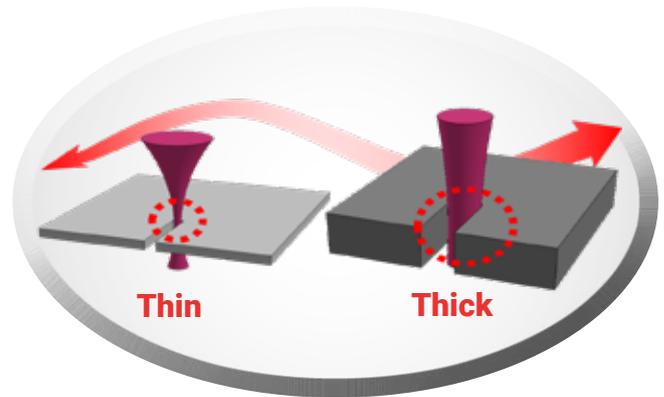
The ENSIS-6225AJ fibre laser cutting machine opens new possibilities for larger sheet and thicker profiling applications by incorporating many standard features aimed at increasing efficiency and productivity, such as a 16 station nozzle changer and single processing lens.

Utilizing AMADA's original Variable Beam Control and Auto Collimation technologies, the ENSIS-6225AJ has the ability to pierce 25mm mild steel extremely quickly versus convention techniques, saving significant production time.

#### VARIABLE BEAM CONTROL TECHNOLOGY



#### AUTO COLLIMATION TECHNOLOGY



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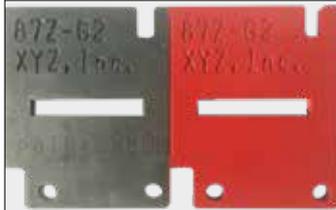
## STANDARD EQUIPMENT AND FUNCTIONS

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### Auto WACS II

AMADA's original Water Assisted Cutting System (WACS) has been updated and improved. The new Auto WACS II is connected to a local water supply to ensure long running without operator intervention, which is ideally suited to large sheet processing.



### Deep Etch

AMADA's Deep Etch function, completed in a single pass of the laser beam, allows part identification to be readable even after coating and without any secondary operation, allowing part traceability through the whole manufacturing process.



### V-Monitor

Check the real-time machine status remotely on your smart device. Additionally, whenever an alarm occurs, V-Monitor will also record HD video to enable diagnosis of the issue.



### Processing Point Camera

The cutting status at the processing point is easily checked by the addition of a camera mounted next to the cutting head. This allows the operator to see the live images on the AMNC 3i control screen, as opposed to having to check through the side windows.



### i-Process Monitoring

The i-Process Monitoring system is capable of checking the piercing and cutting performance of all thicknesses of mild steel, stainless steel and aluminium, and react accordingly when processing difficulties are encountered.



### Multiple Y Axis Conveyors

To make unloading of scrap a much quicker operation, the ENSIS-6225AJ includes as standard 3 Y axis conveyors that shuttle the scrap to bins situated at the side of the machine.

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## OPTIONAL EQUIPMENT AND FUNCTIONS

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### Free Bearing Table

Loading of large, thick sheets is made significantly easier by the addition of the optional free bearing table on the pallet changer. Sheets can be moved into position by a single operator to improve operational efficiency and safety.

Unit: mm

**DIMENSIONS**

**ENSIS-6225AJ 6/9KW + SHUTTLE TABLE (LST)**  
(L) 17414 x (W) 4165 x (H) 2310

**MACHINE SPECIFICATIONS**

			ENSIS-6225AJ
Numerical control			AMNC 3i
Controlled axes			X, Y, Z axes (three axes controlled simultaneously) + B axis
Axis travel distance	X x Y x Z	mm	6200 x 2580 x 200
Maximum processing dimensions	X x Y	mm	6200 x 2580
Maximum simultaneous feed rate	X/Y	m/min	170
Repeatable positioning accuracy			± 0.01
Maximum material mass			4020
Processing surface height			1100
Machine mass (main unit + LST6225)			33500

**OSCILLATOR SPECIFICATIONS**

		ENSIS-6000	ENSIS-9000	ENSIS-12000
Beam generation		Laser diode-pumped fibre laser		
Maximum power	W	6000	9000	12000
Wavelength	µm	1.08		
Maximum processing thickness*	Mild steel	25	25	25
	Stainless steel	25	25	25
	Aluminium	25	25	25
	Brass	15	18	18
	Copper	12	12	12

\* Maximum value depends on material quality and environmental conditions

**SHUTTLE TABLE SPECIFICATIONS**

		LST-6225
Max. material dimensions X x Y	mm	6200 x 2580
Number of pallets		2

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

 For your safe use  
Be sure to read the user manual carefully before use.  
When using this product, appropriate personal protection equipment must be used.

 Laser class 1 when operated in accordance to EN 60825-1

The official model name of the machines and units described in this catalogue are non-hyphenated like EN6225AJ. Use this registered model names when you contact the authorities for applying for installation, exporting, or financing.

The hyphenated spellings like ENSIS-6225AJ are used in some portions of the catalogue for sake of readability. This also applies to other machines.

Hazard prevention measures are removed in the photos used in this catalogue.

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