

■ Dimensions

Unit: mm

■ ENSIS-6225AJ + Storage system (6 pallets) + 2nd Station
(L: 28000 × W: 10000 × H: 5000)

■ ENSIS-6225AJ + Shuttle table
(L: 19000 × W: 7000 × H: 3000)



■ Machine specification

Machine model			ENSIS-6225AJ
Registered machine name			EN6225AJ
Axis travel method			X, Y-axis: Rack & pinion Z-axis: Ball screw
Max. sheet size	X × Y	mm	6200 × 2580
Max. axis travel	X × Y × Z	mm	6200 × 2580 × 200
Rapid feed rate	X, Y-axis	m/min	120 (X, Y composite 170)
	Z axis	m/min	80
Max. material weight		kg	4020
Oscillator model			ENSIS6000*1 / ENSIS9000*2
Oscillator method			Laser diode-pumped fiber laser
Rated laser power	W		6000 / 9000
NC model			AMNC 3i
Max. material thickness	SS	mm	25.0
	SUS	mm	25.0
	AL	mm	25.0

*1, 2: Separate type

■ Pallet changer specification

Machine model		AS-6225
Unit height	mm	4530
No. of pallets		6 (Option: 10)

■ Shuttle table specification

Model		LST6225
Pass line	mm	1100
No. of pallets		2

⚠ For Your Safe Use,
Be sure to read the operator's manual carefully before use.

● When using this product, precautions are necessary to avoid unsafe operation.

*The specifications described in this catalog are for the Japanese domestic market.

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⚠ 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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ENSIS 6225 AJ

High speed, High productivity Fiber Laser Machine
for Large-plate





Achieve extraordinary productivity ENSIS-6225AJ debut!

Expand ENSIS Technology to 8'x20' size

Evolved ENSIS-6225AJ has AMADA's original variable beam control technology to achieve even faster, more stable and high grade processing of thick plates, as well as high speed and low cost processing of medium plates.

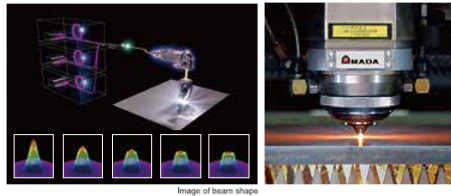


3 concepts

① AMADA original optical technology for high grade processing and high productivity

Piercing 25mm steel plate in 1 second!

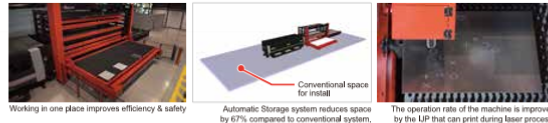
Fiber laser oscillator energy efficiency is about 3 times higher than CO₂, reducing power consumption significantly. Since there are few consumables, maintenance cost is minimized and low operation cost is possible. Additionally, ENSIS technology and auto collimation function allow thin-to-thick materials to be processed with optimal beam shape, achieving high speed, high grade and stable processing in all areas.



② Productivity improvement through continuous operation and off-line setup can be achieved due to automated systems.

Various functions to achieve stable processing

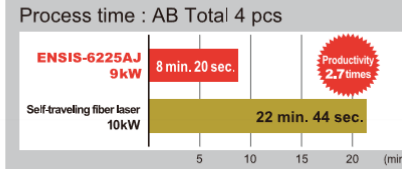
By setting the material on the shelf, it will be automatically loaded to the laser machine, processed, unloaded, and replaced on a schedule. Setup process is improved by adding a second station. If equipped with a IJP on the second station, product printing is possible during laser processing.



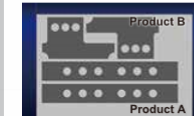
Processing sample & effects

Dynamic beam control improves processing of thick plate (Eco-cut)

Auto collimation function, which optimizes the beam diameter and focal point, is equipped in 6kW/9kW. By assembling with the variable beam control unit, dynamic beam control is realized and thick steel processing issues such as low cutting speed, long piercing time and gouged underside of product are solved all at once. Additionally, cutting by small-diameter nozzle drastically reduces assist gas consumption compared to conventional oxygen cut.



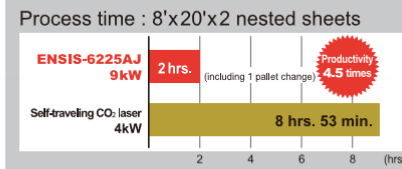
Material: Mild steel 400 22.0mm
Comparison when nested 4 pcs of product A&B



Product size
Product A: 525x78 mm
Product B: 280x162mm

New cutting technology for mid-thick plate (EZ Fast Cut)

Assist gas (Oxygen) cost is not required when utilizing compressed air through HPEZ device*. Cost can be reduced more than Eco-cut and high speed processing is realized max. 6 times faster than conventional machine. *Option



Material: Mild steel 400 9.0mm 8'x20'x2 nested sheets



Product: Building materials
No. of products: 148 types, 439 pcs

③ Significant improvement in operations and working environment

High efficiency production support for easy usage

By reviewing the operations, which tend to rely on an operator's knowledge and know-how, various support functions, which do not interfere with the workflow, are added. Dramatic improvement in operability, setup time, and equipment management. Editing work and express requests that you want to do on-site can be made easily by connecting with multiple cameras. (Including options)

<p>New AMNC 3i</p> <ul style="list-style-type: none"> - Remote screen sharing (Option) - i-CAS support for remnant cutting by AR technology (Option) - Monitor of the protection glass condition (Standard) 	<p>Automatic operation support</p> <ul style="list-style-type: none"> - Automatic nozzle change (Standard 8 pcs) - Process point camera (Standard) - Cabin built-in camera V-monitor (Option) 	<p>Full-cover partition</p> <p>Adopted a work environment-friendly system that prevents dust from scattering, improves efficiency by working in one place, and ensures safety.</p>
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