

# SOLUTION

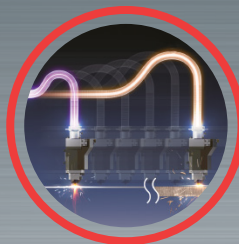
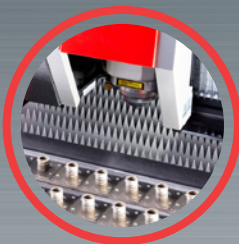
LASER CUTTING



## ENSIS AJ SERIES



UNIQUE BEAM CONTROL FOR HIGHER PRODUCTIVITY



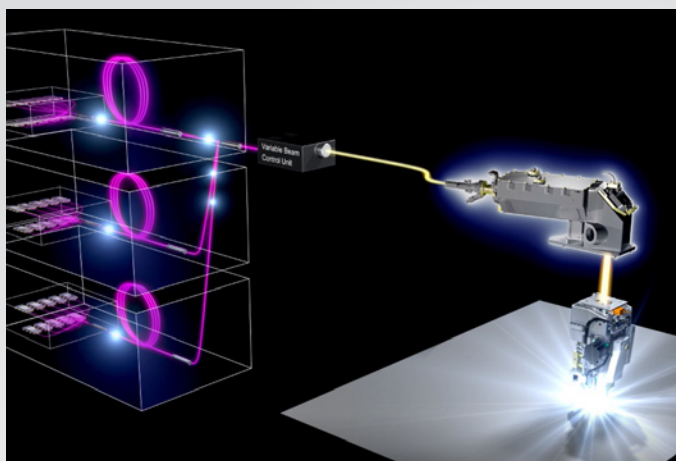
**AMADA**

DATA SHEET

# ENSIS AJ SERIES

## UNIQUE BEAM CONTROL FOR HIGHER PRODUCTIVITY

Now utilising 3kW, 6kW and 9kW fibre laser engines manufactured in-house using the industries highest power single diode modules, the ENSIS-AJ series machines significantly increase processing capabilities. 6kW and 9kW variants introduce AMADA's Auto Collimation system, to provide unrivalled beam spot control. Linked with AMADA's Variable Beam Control technology, this allows single lens processing with very high speed piercing, fast cutting rates and vastly improved bevel angles on thicker materials.



### MAIN FEATURES

- ENSIS technology
- X-axis conveyor
- 16 station nozzle changer
- Pierce monitoring
- 3 MPa assist gas input
- Cooling cut (WACS II)
- Pass line 940 mm
- Side access

### BENEFITS

- Full range processing from thin to thick material without setup (due to single lens and nozzle changer)
- Stable thick material cutting with process monitoring and WACS II
- High pressure assist gas
- Energy saving, low running costs

### MACHINE SPECIFICATIONS

			ENSIS-3015AJ	ENSIS-4020AJ
Numerical Control			AMNC 3i	
Axis travel distance	X x Y x Z	mm	3070 x 1550 x 100	4070 x 2050 x 100
Maximum simultaneous feed rate	X/Y	m/min	170	
Maximum material mass		kg	920	1570
Processing surface height		mm	940	
Machine mass (main machine only)		kg	9100 (3 kW)	12200 (3 kW)
			9500 (6 kW)	12800 (6 kW)
			9600 (9 kW)	12900 (9 kW)

### OSCILLATOR SPECIFICATIONS

			ENSIS-3000	ENSIS-6000	ENSIS-9000
Beam generation			Laser diode excitation, fibre laser		
Maximum power		W	3000	6000	9000
Maximum Processing thickness*	Mild steel	mm	25	25	25
	Stainless steel		15	25	25
	Aluminium		12	25	25
	Brass		8	15	18
	Copper		6	12	12
	Titanium		5	10	15

\* Maximum value depends on material quality and environmental conditions.

### SHUTTLE TABLE SPECIFICATIONS

			LST-3015G	LST-4020G
Maximum material dimensions	X x Y	mm	3070 x 1550	4070 x 2050
Number of pallets			2	

Specifications, appearance and equipment are subject to change without notice by reason of improvement. Hazard prevention measures are removed in the photos used in this sheet.

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