

SOLUTION

WELDING



FLW ENSIS

3 kW WITH ENSIS VARIABLE BEAM CONTROL



EXPANSION OF WELDING CAPABILITIES AND REDUCED LOAD/UNLOAD TIMES



AMADA

DATA SHEET

EXPANSION OF WELDING CAPABILITIES AND REDUCED LOAD/UNLOAD TIMES

The FLW-3000ENSIS takes laser welding to a higher level of quality with a reduction of the total lead time. In addition, our new solution is equipped with an ENSIS oscillator, which is being applied in the welding field for the first time, along with the new Push-Pull filler wire function, which is used to ensure high quality, long welding applications. All these features increase the possibilities for your production.



M3 - 1 table



M5 - 2 tables
(exchange table system)

MAIN FEATURES

- ENSIS technology (variable beam control)
- 2-axis positioner
- Push-Pull filler wire function
- Z indicator
- Vertical articulated 6-axis robot

BENEFITS

- Variable bead welding and depth of penetration with ENSIS technology
- Stable welding with Push-Pull filler wire management and control
- Easy teaching operation by Z indicator
- Less influence to the welding point during lap welding
- High speed lap welding up to 25 m/min

MACHINE SPECIFICATIONS

FLW-3000ENSIS			M3	M5
Numerical Control			AMNC	
Operator protection			Full cover partition (safety level T2 for unattended operation)	
Carriage	Travel stroke	m	1.5	4
	Maximum travel speed	m/min	60	
	Repeatable positioning accuracy	mm	0.1	
Positioner table	Maximum payload capacity	kg	500	
	Rotating axis		±720°	±200°
	Tilting axis		±90°	±90°
	Maximum travel speed	m/min	30	
Mass of machine		kg	4400	8400
Cabin dimension	L x W x H	mm	6000 x 4000 x 3750	8500 x 7700 x 3750

OSCILLATOR SPECIFICATIONS

ENSIS-3000			
Beam generation			Laser diode excitation, fibre laser
Maximum power	W		3000
Processing head			AMADA

ROBOT

MC2000			
Robot	X x Y	mm	Vertical articulated 6-axis robot
Robot controller			DX100

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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