

SOLUTION

WELDING

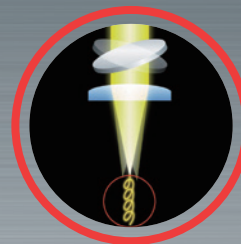


FLW ENSIS

3 kW WITH ENSIS VARIABLE BEAM CONTROL



EXPANSION OF WELDING CAPABILITIES AND REDUCED LOAD/UNLOAD TIMES



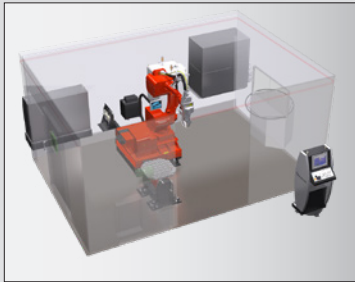
AMADA

DATA SHEET

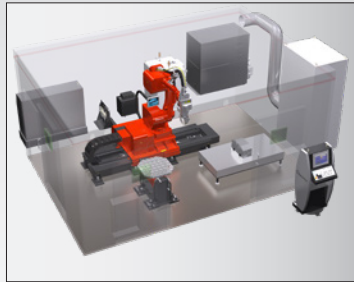
EXPANSION OF WELDING CAPABILITIES AND REDUCED LOAD/UNLOAD TIMES

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.

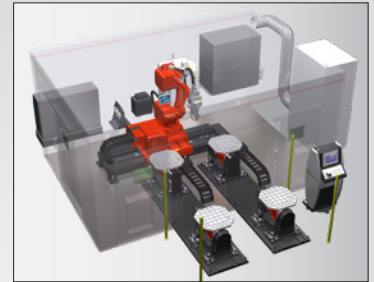
**M2 - 2 tables
(1 positioner, 1 rotating)**



M3 - 1 positioner



**M5 - 2 tables
(exchange table system)**



MAIN FEATURES

- ENSIS technology (variable beam control)
- Various positioning table variants
- Push-Pull filler wire function
- Z indicator
- 6-axis robot depending on the model with linear track
- TAS - Teach Assist System

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
- Manufacturing and positioning tolerances corrected quickly and precisely by TAS

MACHINE SPECIFICATIONS

FLW-3000ENSIS			M2	M3	M5
Numerical control			AMNC		
Operator protection			Full cover partition (safety level T2 for unattended operation)		
Carriage	Travel stroke	m	-	3	4
	Maximum travel speed	m/min	-	60	
	Repeatable positioning accuracy	mm	-	± 0.1	
Positioner table	Maximum payload capacity	kg	500		
	Rotating axis		±720°	±720°	±200°
	Tilting axis		±90°		
	Maximum travel speed	m/min	-	-	30
Rotating table	Maximum payload capacity	kg	2 x 125	-	-
Cabin dimension	L x W x H	mm	5205 x 5000 x 4000	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		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.

AMADA UK LTD.

Spennells Valley Road,
Kidderminster,
Worcestershire DY10 1XS
United Kingdom
Tel: +44 (0)1562 749500
Fax: +44 (0)1562 749510
www.amada.co.uk

AMADA SA

Paris Nord II
96, avenue de la Pyramide
93290 Tremblay en France
France
Tél : +33 (0)1 49 90 30 00
Fax : +33 (0)1 49 90 31 99
www.amada.fr

AMADA GmbH

Amada Allee 1
42781 Haan
Germany
Tel: +49 (0)2104 2126-0
Fax: +49 (0)2104 2126-999
www.amada.de

AMADA ITALIA S.r.l.

Via Amada I., 1/3
29010 Pontenure
(PC)
Italia
Tel: +39 (0)523-872111
Fax: +39 (0)523-872101
www.amada.it

