



SOLUTION

FLW *ENSIS*

EXPANSION OF WELDING CAPABILITIES
AND REDUCED LOAD/UNLOAD TIMES

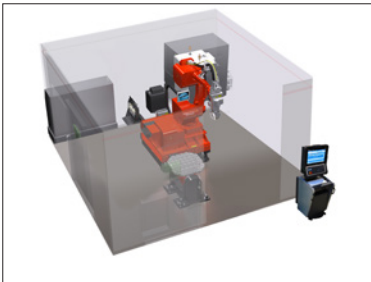


EXPANSION OF WELDING CAPABILITIES AND REDUCED LOAD/UNLOAD TIMES

The FLW-ENSIS 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.

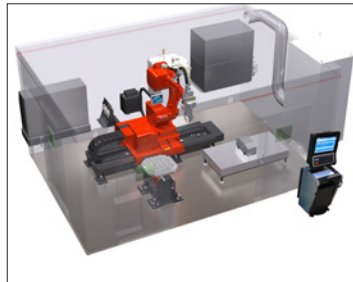
M2

Fixed robot, fixed positioner table



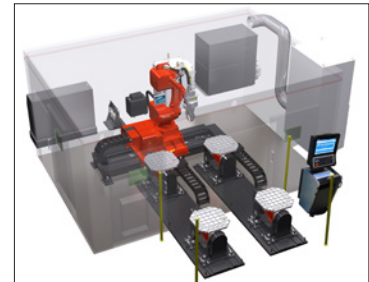
M3

Robot carriage, fixed positioner table



M5

Robot carriage, 2 exchange tables



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
Cabin dimension	L x W x H	mm	4500 x 5000 x 3700	7500 x 5000 x 3700	8500 x 4500 x 3700

OSCILLATOR SPECIFICATIONS

			ENSIS-3000	ENSIS-6000
Beam generation			Laser diode excitation, fibre laser	
Maximum power	W		3000	6000
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.

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