

SOLUTION

FLW 3000 L₂ **3kW**

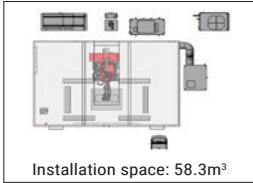
COMPACT FIBRE LASER WELDING MACHINE



FLW 3000Le 3kW

COMPACT FIBRE LASER WELDING MACHINE

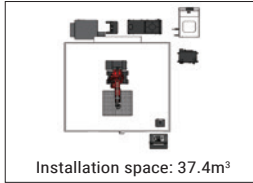
Conventional robotic welder



Installation space: 58.3m³

BEFORE

FLW-3000Le



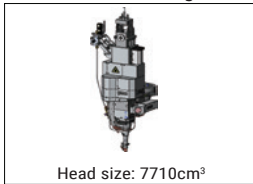
Installation space: 37.4m³

AFTER

COMPACT FOOTPRINT

Create new value for the welding process in a compact footprint. Footprint is 65% of conventional machine.

Conventional welding head



Head size: 7710cm³

BEFORE

FLW-3000Le

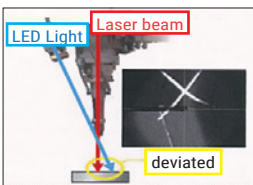


Head size: 2866cm³

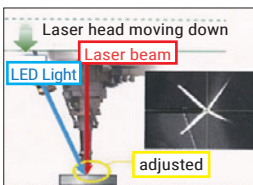
AFTER

SMALL HEAD

Head size is 37% of conventional laser head.



BEFORE



AFTER

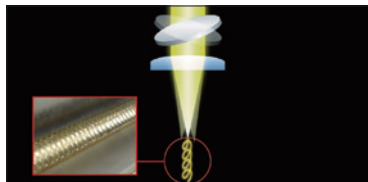
STABLE PROCESS WITH Z INDICATOR

Nozzle gap adjustment at the weld positions is done by projecting the LED light and the image of the camera in the laser head on the monitor. Processing defects caused by incorrect nozzle gap are prevented, resulting in stable process results.



For illustrative purposes only.
Table is an option.

FLW-3000Le WELDING TECHNOLOGY



Beam weaving

The laser beam rotates during the welding operation. This enables stable high quality welding to be achieved.

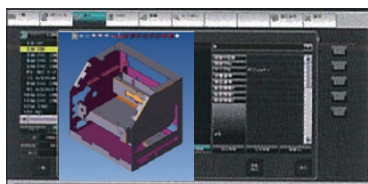


Filler wire feeding unit

Filler for larger gaps can be automatically supplied when necessary. It can be utilized in conjunction with beam weaving.

OPTION

EASY OPERATION



Set up navigation

Register jig work position and CAM pictures in the program to make setup easier.



TAS (Teaching Assist System)

Weld points can be corrected in the NC screen. No need for manual robot teaching.

Nozzle Line Up for various processes



Thin Nozzle

Purpose : Weld
Feature: standard nozzle



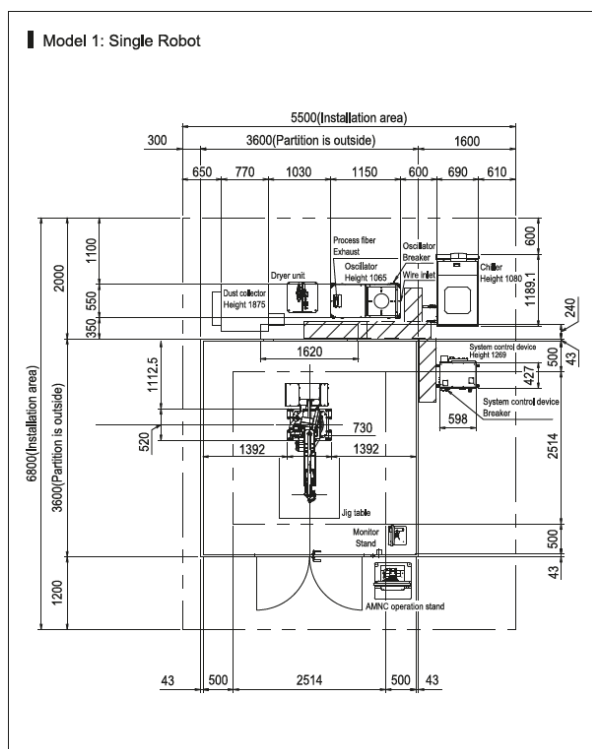
Water cooled Coaxial Nozzle

Purpose : Weld
Feature: Spatter durability

OPTION

DIMENSIONS

Unit: mm



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Table is an option.

MACHINE SPECIFICATIONS

	FLW-3000Le
Oscillator	FL3000
Chiller	Technotrans PURE60K
Robot	GP25 (YASKAWA)
Robot controller	YRC1000 (YASKAWA)
NC controller	AMNC4ie
Process head	AMADA
Partition	Full cover partition
Dust collector	Herding SIMPLEX 6-1-3 SB

OSCILLATOR SPECIFICATION

		FL3000
Rate laser power	W	3000
Dimension W x H x L	mm	550 x 1065 x 1490
Wavelength	µm	1.07
Power requirement	kVA	10.5
Mass	kg	346

Specifications, appearance, and equipment are subject to change without notice by reason of improvement.



For your safe use
Be sure to read the user manual carefully before use.
When using this product, appropriate personal protection equipment must be used.



Laser class 1 when operated in accordance to EN 60825-1

The official model name of the machines and units described in this catalogue are non-hyphenated like FLW3000Le. Use this registered model names when you contact the authorities for applying for installation, exporting, or financing. The hyphenated spellings like FLW-3000Le are used in some portions of the catalogue for sake of readability.

Hazard prevention measures are removed in the photos used in this catalogue.

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