

Pursuing high productivity and cost-effectiveness New ML3015eX-S Edition laser processing system



Features

Superior cost performance for thin plates

A new high-beam convergence resonator has achieved improved productivity and reduced running cost.

- Cutting time of thin plates reduced up to 20%
- Running cost reduced up to 13%

* The above percentages are comparisons with the existing model (LV-20CF3).

Selectable manual pallet for eX Series

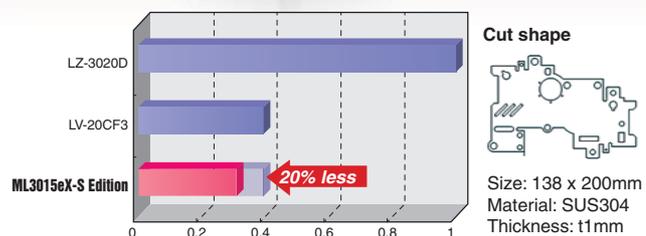
Choose from a variety of systems as to contents of work or installation site (manual pallet, auto pallet changer, stoker system).



Improvement of reliable features ensuring stable processing

- Allows stable processing regardless of worker experience (e-Cutting mode, e-processing condition)
- Interrupt processing meets quick turnaround needs on the spot (easy nesting function)
- Clean technology increases resistance of resonator optical parts

Cutting time (existing model set to one)



Cut shape



Size: 138 x 200mm
Material: SUS304
Thickness: t1mm

Specifications

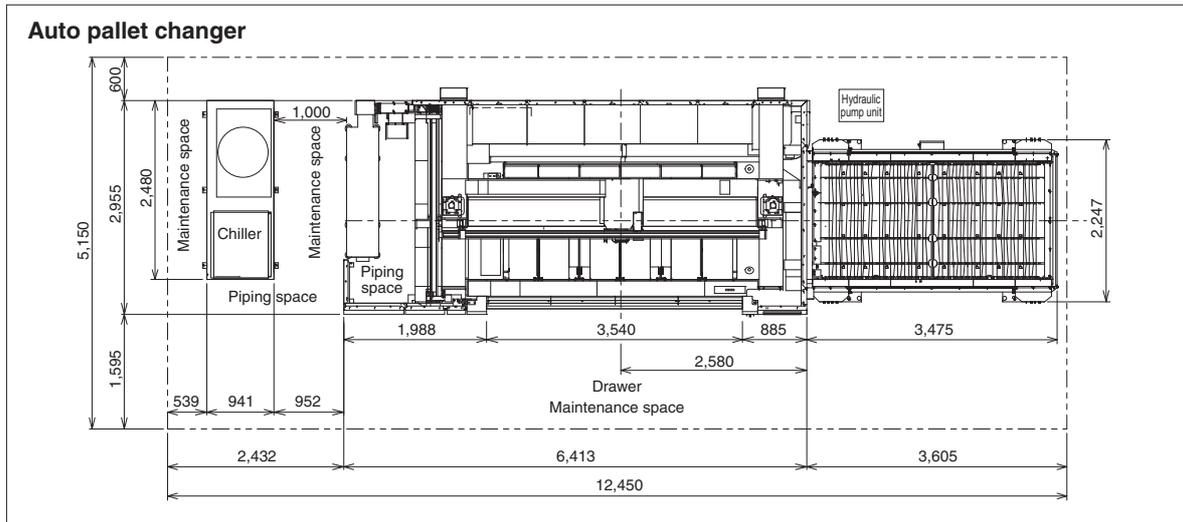
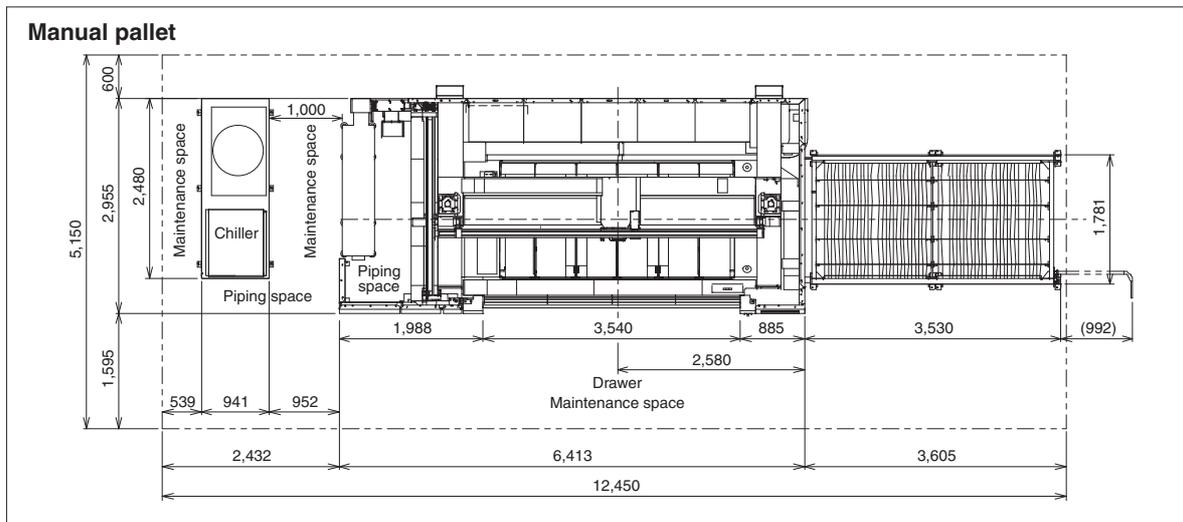
Model name	ML3015eX-S Edition	
	Auto pallet changer	Manual pallet
Movement system	Flying optic	
Target workpiece dimensions (mm)	3,050 x 1,525	
Workpiece weight (kg)	950	
Table pass height (mm)	880	
Stroke	X axis (mm)	3,100
	Y axis (mm)	1,565
	Z axis (mm)	150
Rapid feed rate	X,Y axis (mm/min)	100
	Z axis (mm/min)	65
Maximum processing feed rate (m/min)	50	
Positioning accuracy	X,Y axis (mm)	0.05/500
	Z axis (mm)	0.1/100
Repeatability accuracy	±0.01	
Processing head	Autofocus preset method	
Resonator output power (peak pulse power) (W)	3,200	
Chiller	LCU15AIX (Air-Cooled)	
Workpiece loading	Auto pallet changer	Manual pallet
Workpiece lifter	Optional	-

Processing Capabilities

Material	Assist gas	Thickness(mm)										
		2	4	6	8	10	12	14	16	18	20	22
Mild steel (SS400)	Oxygen	[Processing capability bar for Mild steel (SS400) with Oxygen assist gas]										
Stainless steel (SUS304)	Nitrogen	[Processing capability bar for Stainless steel (SUS304) with Nitrogen assist gas]										
		When using f254mm (f10") lens*										
Aluminum alloy (A5052)	Nitrogen	[Processing capability bar for Aluminum alloy (A5052) with Nitrogen assist gas]										
		When using f254mm (f10") lens*										

- The above processing capabilities are based on specific conditions. The acceptance criteria are as stated in the specifications.
- The actual performance / quality / may vary depending on surface conditions and deviation in the material composition even if materials are of same specifications.
- Variations in processing performance/ quality may occur depending on the part geometry.
- Regarding mild steel (SS400) with a thickness over t19mm, capabilities listed in this catalog are based on LS material (steel plate for laser processing) of Chubu Steel Plate Co.,Ltd.
- Stainless plate with a thickness over t8mm is cut by plasma surface cutting.
- * Lens f 254mm(10") is optional.

Layout ML3015eX-S Edition



MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
 NAGOYA WORKS: 1-14, YADA-MINAMI, 5-CHOME, HIGASHI-KU, NAGOYA 461-8670, JAPAN

- * Not all models are supported for all countries and regions.
- * Machine specifications differ according to the country and region, so please check with your dealer.
- * Processing data provided in this brochure is for reference only.

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems)

