



PROCESSING MACHINE SPECS

Item	Specifications		
Model name	ML1212HV	ML2512HV	ML3015HV
Movement method	Hybrid type (X axis = table movement, Y axis = beam movement)		
Control method	X-Y-Z simultaneous 3-axis control (Z axis height control also possible)		
Target workpiece dimensions*1 (in.)	48.03 x 48.03 x 0.63	96.06 x 48.03 x 0.63	120.07 x 60.03 x 0.63
Stroke	X axis*2 (in.)	49.21 (+5.90)	98.42 (+5.90)
	Y axis (in.)	49.21	49.21
	Z axis (in.)	11.81	
Speed	Rapid feed rate (in./min)	Maximum 1968 (100%, arbitrary, 10% 3-step setup) (Arbitrary: Setting from 0-100% possible)	
	Processing feed rate (in./min)	Maximum 1181	
Accuracy	Positioning accuracy*3 (in.)	0.000394/19.686 (X, Y axes)	
	Repeatability accuracy*3 (in.)	±0.000197 (X, Y axes)	
Assist gas pressure change device	Stepless switching (effective range = 0.02-0.65MPa) or 2.0MPa		
Assist gas type change device	3 type switching, 4W light pressure		
Processing head	Lens cartridge type manual focus preset head		
Applicable resonator	ML20CF2-ML40CF-R		
Weight (lb.)	Approx. 14600	Approx. 16800	Approx. 21200

*1: Target workpiece dimensions indicate work lifter capacity. Processing ability will vary by the resonator selected.

*2: Processing sphere is the stroke figure without parenthesis. "(+5.90)" is possible only for work conveyance and maintenance use.

*3: Accuracy values indicate processing machine mechanical accuracy, and differ from cut workpiece accuracy (processing accuracy). Processing accuracy will vary by materials, plate thickness, processing speed and other factors.

RESONATOR SPECS

Item	Specifications		
Model name	ML20CF2	ML40CF-R	
Excitation method	3-axis cross gas flow silent discharge		
Beam mode	Low-order (TEM ₀₁) main component		
Laser output characteristics	Rated power (W)	4000	
	Power stability (%)	Under ±1 (under power control, rated power)	
	Power setting range (%)	0-100	
Laser gas composition	CO ₂ :CO:N ₂ :He = 8:4:60:28		
Laser gas consumption rate (l/hr)	2	3	
External dimensions (in.)	78.35 x 18.15 x 63.78	98.43 x 31.50 x 71.26	
Weight (lb.)	Approx. 2650	Approx. 4860	

CONTROL SPECS

Retry control	Multiple setup screen	Telephone line interface	Hard disc memory capacity: 2GB Memory capacity: approx. 2MB Input system: Touch panel, 3.5" floppy disc, computer link, network-use LAN, card (optional)
Processing start point return function	Maintenance screen	Processing condition register	
Feed hold point return function	Scaling mirror image	Processing condition search	
Corner control function	Figure rotation	Processing condition adjustment	
Slope control function	Graphics automatic scaling	One-touch 2nd/3rd zero point return	
Error help screen	Laser macro	Character string replacement	
Processing setup screen	Automatic power off	Display screen: 10.4" TFT	