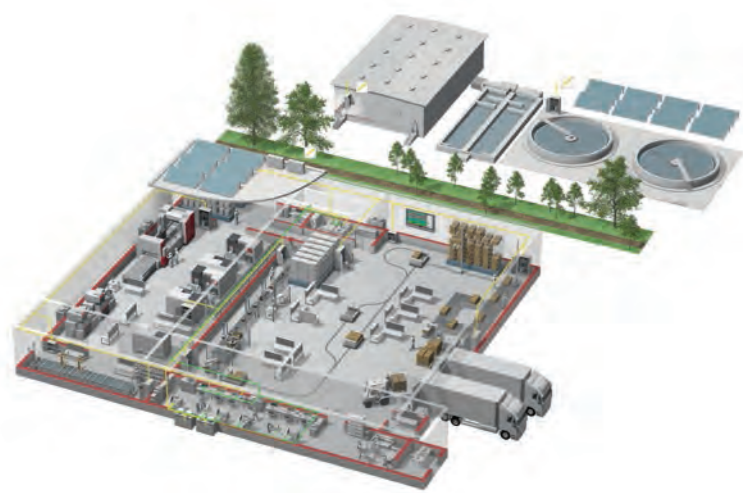


Your solution partner



Mitsubishi Electric is supplying wide ranging automation equipment from graphic operation terminal and programmable logic controller through CNC and electric discharge machine.

Brand of trust

Our brand name "Mitsubishi" has been used as part of approximately the 45 corporation names in the financial, commercial and industrial areas. At present, "Mitsubishi" is globally renowned as a symbol of high quality. Mitsubishi Electric Corporation is engaged in the business sectors of space development, transportation, semi-conductor, energy system, information and communication processing, audio visual device, home appliance, construction, energy management and automation system with our 237 factories and laboratories over 121 countries.

What is the reason why Mitsubishi Electric automation solution is reliable? Since we check our products by using them for the first time at our factories, they are undeniably highly credible, efficient and easy-to-use automation systems. Mitsubishi Electric as one of the world's leading corporations, boasting of its sales volume of 4 trillion yen (exceeding 40 billion dollars) and employing over 100 thousand staff, not only provides the best product but also the top-level service and support to our customers.



Low-voltage circuit breaker, Magnetic motor starter



High-voltage circuit breaker, High-voltage magnetic contactor



Energy-saving support device, Energy monitoring module



Programmable logic controller (PLC), Graphic operation terminal (HMI)



AC servo, Three-phase motor, IPM motor, Inverter, Geared motor



Numerical controller (CNC)



Industrial robot



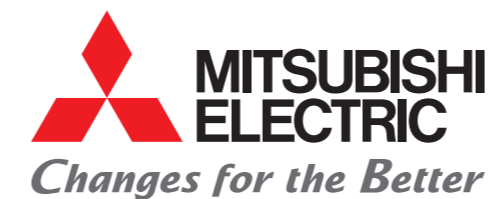
Electric discharge machine, Laser processing machine, Electron beam machine



Transformer for power distribution



Pressurized ventilation fan, Uninterruptible power supply (UPS)



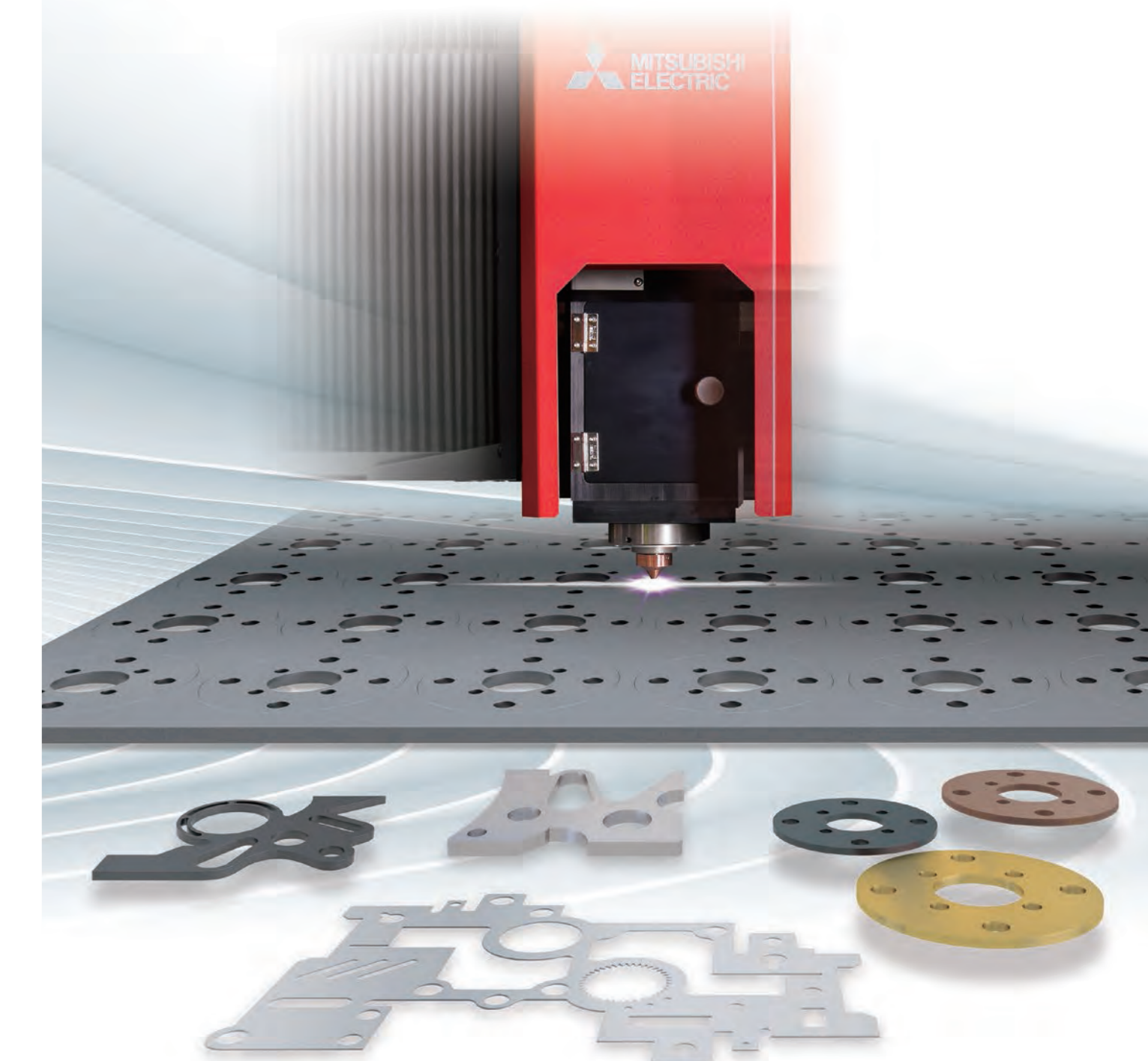
CO₂ 2-Dimensional Laser Processing Systems ML3015SR-32XP



Mitsubishi-Electric-Platz 1 · 40882 Ratingen · Germany
Tel: +49-(0)2102-486 6120 · Fax: +49-(0)2102-486 7090
www.mitsubishi-laser.de

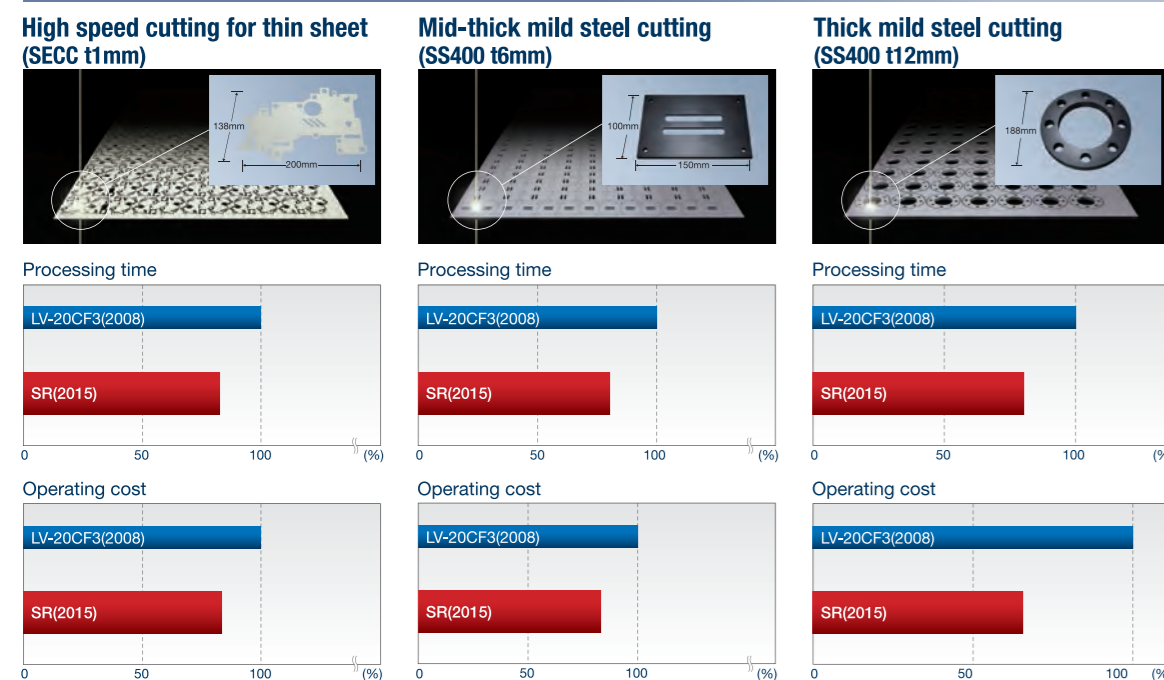
* Not all the models are supported in all the countries and regions.
* The machine specifications differ according to the countries and regions. Please check with your dealer.
* The processing data provided in this brochure is for reference only.

Mitsubishi Electric Laser Processing Machines – supporting the world's production sites –

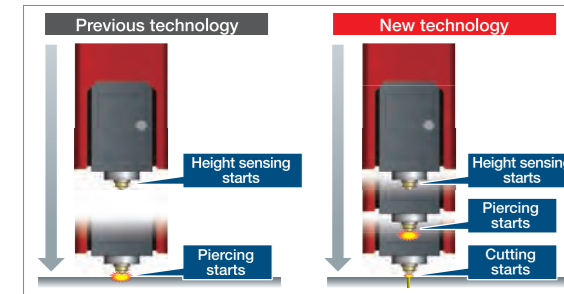


All-around machine that covers all plate thickness

Improvement of processing performance

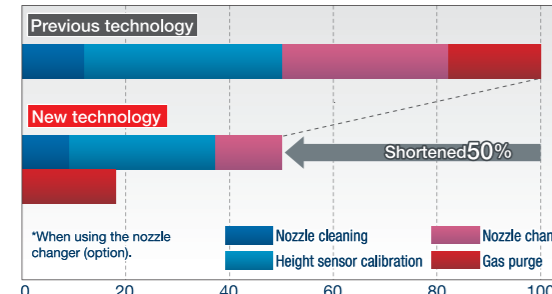


Reduction in processing time of thin sheet



Minimizes the time before starting the piercing operation by performing the beam on and gas on processes before the height sensing completes.

Reduction in non-actual processing time



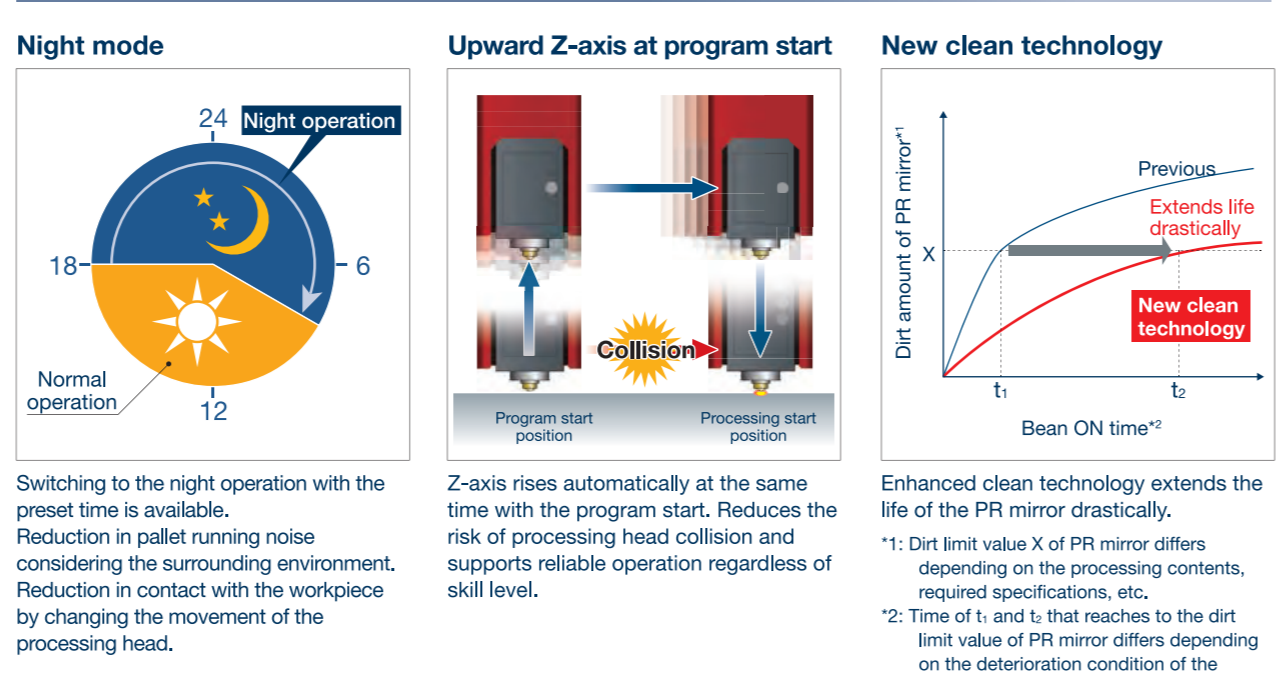
Total productivity has been improved with the high-speed and parallel operation of each movement before processing.

Cutting sample

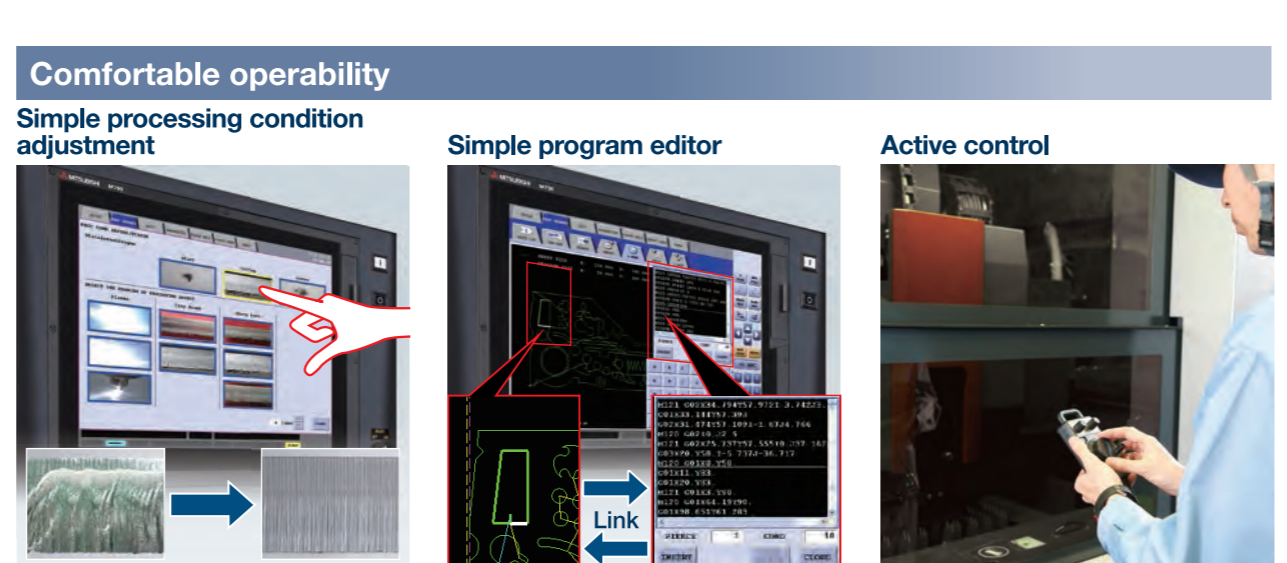


Reliable and comfortable operation attained with the latest technology

Support for reliable operation



Comfortable operability



High quality processing regardless of proficiency is possible by selecting the similar picture to processing status.

Allows the change of program and processing condition numbers easily while checking the shape on the graphic screen.

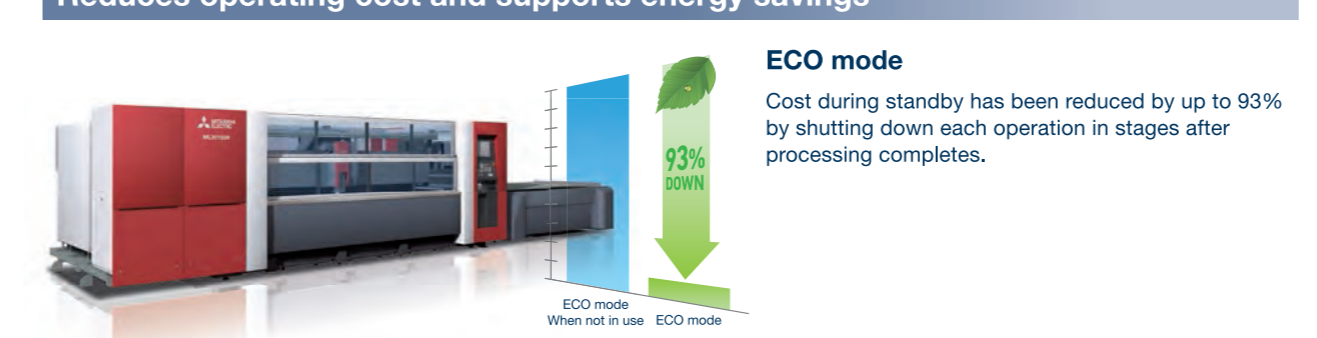
Adjusts the processing condition by a dial while looking at the processing.

Visualization supports energy saving / production plan and reduces operating cost

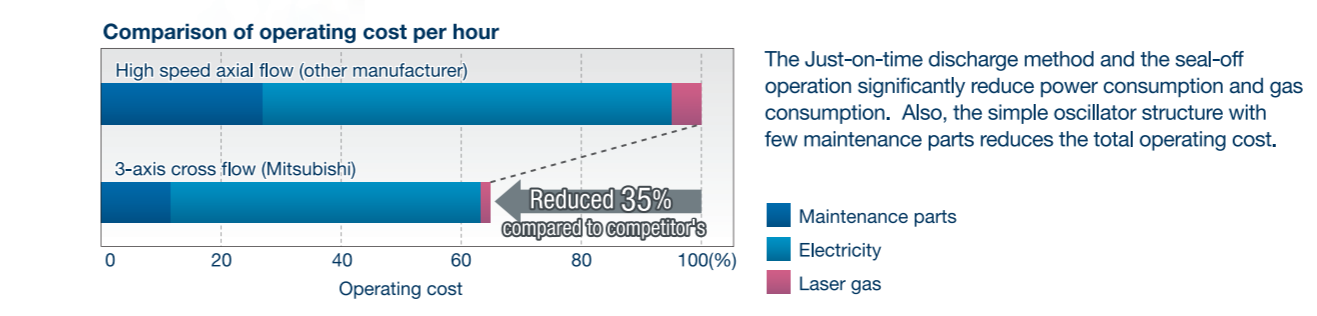
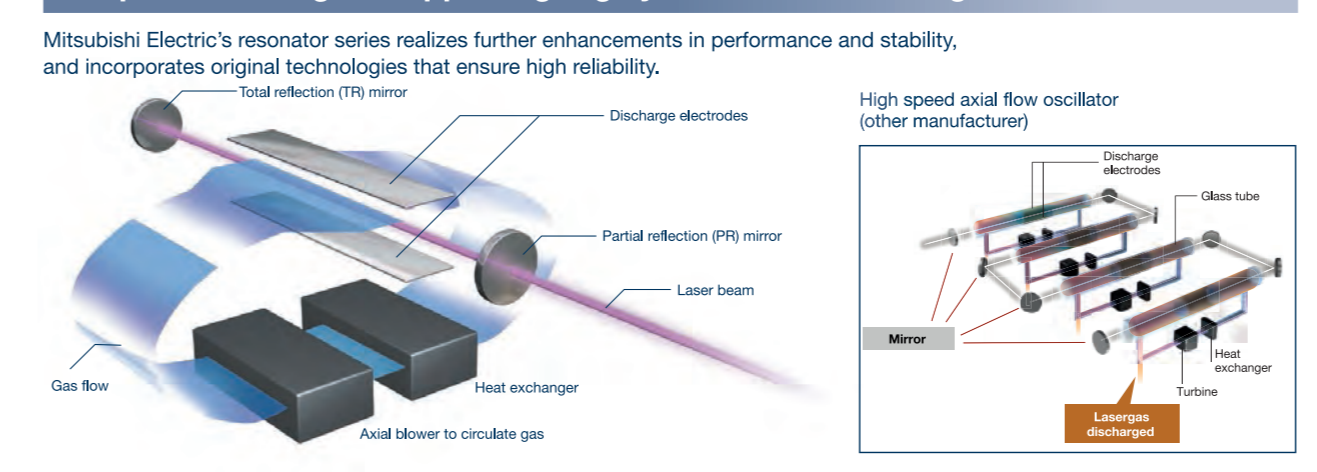
Visualization



Reduces operating cost and supports energy savings



SD Excitation 3-Axis Cross Flow Resonator Unique Technologies Supporting Highly Reliable Processing



Processing capability			
Model	Material	Assist gas	Thickness(mm)
ML3015SR-32XP	Mild steel(SS400)	Oxygen	0-24
	Stainless steel(SUS304)	Nitrogen	0-24
	Stainless steel(SUS304)	Nitrogen	0-24 (When using t254mm(t10") lens (option))
	Aluminum alloy(A5052)	Air	0-24
	Aluminum alloy(A5052)	Nitrogen	0-24 (When using t254mm(t10") lens (option))

*The above are processing capabilities based on special conditions. The acceptance criteria are as stated in the specifications.
 *The actual performance/quality may vary depending on the surface condition and deviation in the material processing even if materials are of the same specifications.
 *Variations in processing performance/quality may occur depending on the part geometry.
 *Regarding mild steel (SS400) with a thickness over t19mm, capacities listed in this catalog are based on the LS material (steel plate for laser cutting) of Chubu Steel Plate Co., Ltd.

Options	
Processing machine	t125mm (t5") lens t254mm (t10") lens Barcode reader FRG(F-CUT Route Generator)
Control unit	Network download

Processing Machine specifications		
Model name	ML3015SR	
Drive system	Flying optic	
Control system	Simultaneously 3-axis (X-Y-Z) control (Z-axis emulation control possible)	
Target workpiece dimensions (mm)	3050×1525 (max. mountable workpiece)	
Built-in pallet weight (kg)	950	
Workpiece support height (mm)	880	
Stroke	X-axis (mm)	3,100
	Y-axis (mm)	1,565
	Z-axis (mm)	150
Speed	Fast feeding XY-axis(m/min)	Max. 100
	Z-axis(m/min)	Max. 65
	Max. processing feed speed (m/min)	50
Accuracy	Positioning accuracy XY-axis(mm)	0.05/500
	Z-axis(mm)	0.1/100
Repetition accuracy (mm)		±0.01 (X,Y-axis)
		Auto-focus preset
Processing head	Processing lens (mm)	ø50.8(ø2.0")×t190.5(t7.5")
Compatible oscillator	ML45CF-R, ML60XF	
Power consumption of entire system (kW)	8	
Exterior dimensions (WxDxH) (mm)	Total system	10,180×3,134×2,260
	Approx.	10,600
	Processing machine main unit (excluding oscillator)	Approx. 8,500
	Pallet changer processor	Approx. 2,100

Cooling system specifications	
Cooling method	Air
Power requirement (kVA)	21
Cooling capacity (kW)	45
External dimensions (mm)	2390×934×1772
Weight (kg)	Approx. 850

Control system specifications	
Display screen	15" TFT (touch panel)
Hard disk (GB)	20
Program input method	Screen creation, USB (ver.2.0), Ethernet
Operation method	Memory operation, HD direct operation

