

Processing Machine Specifications

Model Name		3015 eXs		
Machine structure		X/Y - Precision Rack & Pinion - Z=Precision Ball Screw		
Travel drive method		X-Y-Z simultaneous 3 axes (Z axis height control is also possible)		
Specifications and Performance	Max. workpiece size (inch)	120.1 x 60.0 (3050mm x 1525mm)		
	Table pass height	34.6 (879mm)		
	Processing access	Automatic Up/Down Door		
	Pallet changer	Provided		
	Stroke	X-axis stroke (inch)	122 (3,100 mm)	
		Y-axis stroke (inch)	61 (1,550 mm)	
		Z-axis stroke (inch)	5.9 (150 mm)	
	Speed	Rapid travel speed (X, Y) (inch / min)	3940 (100m/min) 5550 (141m/min) simultaneous	
		Max. processing feedrate (inch / min)	1970 (50m/min)	
	Precision	Positioning precision (inch)	0.0019/20 (0.05/ 500mm) (X, Y axis), 0.0039/4 (0.01/ 100mm) (Z axis)	
Drive motor type		Intelligent AC Servo		
Max. workpiece weight (lb)	1540 (700 kg)			
Machine unit dimensions (W x H x D) (inch)	428.6 x 93.7 x 127.8 (CFR) (10,886 x 2,380 x 3,246 mm)		428.6 x 94.9 x 127.8 (60XF) (10,886 x 2,410 x 3,246 mm)	
Machine system weight (lb)	28090 (12740 kg)			
Machine power requirements	49 KVA 3Ø 208 VAC ±5% 60Hz 141 Full Load Amps			

Control System Specifications

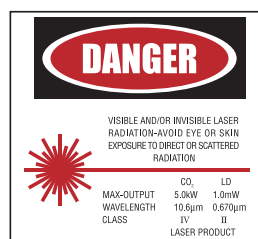
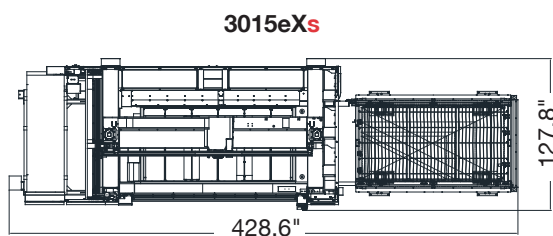
Type	Self-contained
CPU	64-bit
Display screen	15" TFT color LCD Touch screen
Hard disk	20.0GB
Generator output control	Output Power, Frequency, Duty
Generator operation control	Beam ON/OFF, laser gas change, etc.
Drive system	X, Y, Z simultaneous control
Position detection system	Encoder
Min. command input	.001mm / .0001"
Program input system	USB, Computer Link, Ethernet LAN

Pallet Changer Specifications

Type	P7
Drive mechanism	Chain
Pallet change time (sec)	Approx. 40
Work clamps	2 sets on Y axis
Pallet capacity (lb)	1540/pallet (700 kg)
Pallet changer weight (lb)	4500 (2,040 kg)
Applicable machine size	3015 (5' x 10') (1,525 x 3,050 mm)

CO₂ Laser Specifications

Excitation method		3-axis cross flow, SD (silent discharge) excitation	
Ability	Laser Output	Frequency (Hz)	10~3,000 (Guaranteed range during power control: 100~3,000)
		Duty (%)	Settable range: 0~100
		Rated output (W)	2700
		Stability (%)	Below±1 during power control (compared to rated output)
		Settable power range (%)	0~100(Guaranteed range: 10~100, Rated output:100)
Beam characteristics	Wavelength (µm)	10.6	
	Beam mode	Low-order (TEM ₀₁ * Main component)	
	Beam diameter (mm)	Approx. ø21 (rated output)	
	Divergence angle (mrad)	Approx. 2.5 (total angle)	
Laser Gas	Composition	CO ₂ :CO:N ₂ :He=8.4:60:28	
	Consumption (L/hr) (standard)	Approx. 1	
	Gas sealing time (hr)	24	
	Dimensions: (W x D x H) (in)	80.3 x 17.7 x 63.8	
	Weight (lb)	Approx. 1,200	
Chiller Power Requirements		28 KVA 3Ø 208 VAC 15% 60Hz 82 Full Load Amps	



This product complies with CFR 1040. 10.
Data provided in this brochure is for reference only.

MC MACHINERY SYSTEMS, INC.