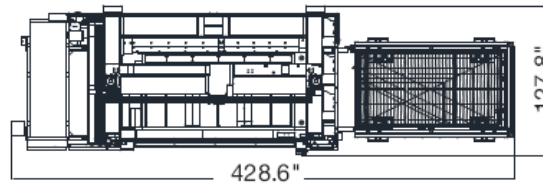


3015eX - 45CF-R Top View



Processing Machine Specifications

Model Name		3015 eX		
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) 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)		2050 (930 kg)		
Machine unit dimensions (W x H x D) (inch)		428.6 x 111.4 x 127.8 (10,886 x 2,830 x 3,246 mm)		
Machine system weight (lb)		28090		
Machine power requirements		77 KVA 3Ø 208 VAC ±5% 60Hz 220 Full Load Amps		

Control System Specifications

Type	Self-contained
CRU	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, Etemet LAN

Pallet Changer Specifications

Type	P7
Drive mechanism	Chain
Pallet change time (sec)	Approx. 30
Work clamps	2 sets on Y axis
Pallet capacity (lb)	2050/pallet (930 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

Model		35CF-R	45CF-R
Excitation method		3-axis cross flow, silent discharge	3-axis cross flow, silent discharge
Performance Laser power	Maximum output power (W)	3500	4500
	Rated output power (W)	3500	4500
	Control method	Power feedback	Power feedback
	Power stability	Less than ±1% of rated power	Less than ±1% of rated power
	Beam mode	Low-order (main component TEM ₀₁)	Low-order (main component TEM ₀₁)
Beam characteristics	Beam outer diameter (inch)	1.02 (26 mm)	1.02 (26 mm)
	Beam divergence (mrad)	Approx. 3.5 or less (total angle)	Approx. 3.5 or less (total angle)
	Laser gas composition	CO ₂ , CO, N ₂ , He	8:4:60:28
Laser gas consumption rate (liter/Hr)	3	3	
Gas sealing time (during rated continuous oscillation) (Hr)	24 (during rated continuous oscillation)	24 (during rated continuous oscillation)	
Wave length (µm)	10.6	10.6	
Frequency setting range (Hz)	10~3000	10~3000	
Duty range (%)	0~100 adjustable	0~100 adjustable	
Output power adjustable range (%)	0~100 of rating	0~100 of rating	
Resonator unit dimensions (W x H x D)	98.4 x 71.3 x 31.5 (2,500 x 1,800 x 800 mm)	98.4 x 71.3 x 31.5 (2,500 x 1,800 x 800 mm)	
Resonator unit weight (lb)	4850 (2,200 kg)	4850 (2,200 kg)	
Chiller power requirements	42 KVA 3Ø 208 VAC ±10% 60Hz 129 Full Load Amps	42 KVA 3Ø 208 VAC ±10% 60Hz 129 Full Load Amps	