

Machine Specifications

TYPE		FO-3015NT	FO-4020NT
Axial travel		X,Y-axis:optic transfer	
Axial control		X,Y,Z - axis control (3 axes same time control)	
Max.processing size		3070 X 1550 X 200	4070 X 2050 X 200
Axis movement	X axis	3420	4420
	Y axis	1550	2050
	Z axis	200	200
Cutting feed speed	X axis	0~20	
	Y axis	0~20	
Max feed speed	X axis	80	
	Y axis	80	
	Z axis	60	
Mass of sheet	kg	850	1500
Least input increment	mm	0.001	
Assist gas control		Automatic change	
Pass line	mm	840	940
Mass of machine	(with oscillator) ton	12	
Power requirement 3phase AC200/220V	AF-2000E kVA	53 (without chiller) 75 (with chiller)	
	AF-4000E kVA	75 (without chiller) 111 (with chiller)	
Standard Accessory		Area Sensor	

Oscillator Specifications

TYPE		AF-2000E	AF-4000E	
Oscillator type		High-speed axial carbon dioxide gas laser using high-frequency discharge excitaion		
Laser output	Rated output	2000	4000	
	Output stability	±1% (for 8-hour rated output under output feedback control)	±2% (for 8-hour rated output under output feedback control)	
	Pulse	Peak output	2700 (for 500Hz of less and a duty cycle of 50% or less)	5000 (for a pulse width of 0.3ms or more)
		Frequency	5 to 2000Hz	
	Duty	0 to 100%		
Output beam	Wave length	10.6		
	Mode	Low-order mode		
	Diameter at exit	Approximately 27mm		
	Divergence angle	2mrad		
Polarized light		Circular polarization		
Laser gas	Pre-mixed gas	CO ₂ :He:N ₂ =5:40:55 (volume ratio with N ₂ balance) with a composition ratio accuracy of ±5%		
	Consumption rate	10		
Cooling water	L/min	75	160	