

5X10			6X12		
SPECIFICATION	INCH	METRIC	SPECIFICATION	INCH	METRIC
440 Laser	CO2 Fast Axial Flow	CO2 Fast Axial Flow	440 Laser	CO2 Fast Axial Flow	CO2 Fast Axial Flow
Maximum Power	4,000w	4,000w	Maximum Power	4,000w	4,000w
Speeds			Speeds		
Rapid X and Y axes	8,500 IPM	216 m/min	Rapid X and Y axes	8,500 IPM	216 m/min
Simultaneous X-Y	12,020 IPM	305 m/min	Simultaneous X-Y	12,020 IPM	305 m/min
Z axis	1,700 IPM	43 m/min	Z axis	1,700 IPM	43 m/min
Maximum cutting	7,200 IPM	182 m/min	Maximum cutting	7,200 IPM	182 m/min
Acceleration of Cutting Head			Acceleration of Cutting Head		
X axis	1.65g	16.2 m/sec ²	X axis	1.5g	14.7 m/sec ²
Y axis	1.65g	16.2 m/sec ²	Y axis	1.5g	14.7 m/sec ²
Simultaneous X-Y	2.0g	19.6 m/sec ²	Simultaneous X-Y	2.0g	19.6 m/sec ²
Z axis	2.9g	28.5 m/sec ²	Z axis	2.9g	28.5 m/sec ²
Machine Travel Limits			Machine Travel Limits		
X axis	121"	3,073 mm	X axis	158.5"	4,026 mm
Y axis	61"	1,549 mm	Y axis	79.75"	2,026 mm
Z axis	10"	254 mm	Z axis	10"	254 mm
Workpiece Dimensions (max)			Workpiece Dimensions (max)		
X axis	120"	3,048 mm	X axis	157.5"	4,000 mm
Y axis	60"	1,524 mm	Y axis	78.75"	2,000 mm
Z axis (above each pallet)	1.5"	38 mm	Z axis (above each pallet)	1.5"	38 mm
NOTE: Lower Pallet Special Function (box cutting).			NOTE: Lower Pallet Special Function (box cutting).		
Z travel is 8" above lower pallet			Z travel is 8" above lower pallet		
Workpiece Weight (max)	2,292 lbs.	1,040 kg	Workpiece Weight (max)	3,949 lbs.	1,791 kg
Accuracies			Accuracies		
Absolute positioning X and Y axes			Absolute positioning X and Y axes	+0.01"	+0.25 mm
Repeatability X and Y axes	+0.01"	+0.25 mm	Repeatability X and Y axes	.001"	.025 mm
Contouring X and Y axes	.001"	.025 mm	Contouring X and Y axes (maximum out of round 1" dia. hole @ 600 IPM)	.003"	.076 mm
(maximum out of round 1" dia. hole @ 600 IPM)	.003"	.076 mm			
Floor Dimensions (approx.)			Floor Dimensions (approx.)		
Length x Width x Height	395" x 183" x 107"	1003cmx465cmx272cm	Length x Width x Height	476" x 202" x 107"	1209cmx513cmx272cm
Machine Weight	36,750 lbs.	16,770 kg	Machine Weight	43,000 lbs.	19,505 kg
Assist Gas Pressure Range	5-400 psig	.4-27.6 bar	Assist Gas Pressure Range	5-400 psig	.4-27.6 bar
Ambient Temperature Range	50° to 105° F	10° to 40°C	Ambient Temperature Range	50° to 105° F	10° to 40°C
Chiller			Chiller		
Resonator, optics, motors, head	37 gal - Distilled Water	140 l - Distilled Water	Resonator, optics, motors, head	37 gal - Distilled Water	140 l - Distilled Water
	17 gal - DowthermSR1 & water	64 l - DowthermSR1 & water		17 gal - DowthermSR1 & water	64 l - DowthermSR1 & water
Fume System			Fume System		
Duct Opening ID	20.38"	517.65 mm	Duct Opening ID	20.38"	517.65 mm
Recommended air flow @ ¾" static	4,500 scfm @ .75" static	127m ³ /min @ 19mm	Recommended air flow @ ¾" static	4,500 scfm @ .75" static	127m ³ /min @ 19mm
Compressed Air Requirements			Compressed Air Requirements		
Air Purge	780 scfh @ 80-140 psig	780 scfh @ 5.5-9.6 bar	Air Purge	780 scfh @ 80-140 psig	7480 scfh @ 5.5-9.6 bar
Max temperature	100°F	37.7°C	Max temperature	100°F	37.7°C
Max oil/water content	.01 OZ/hr	.3 ml/hr	Max oil/water content	.01 OZ/hr	.3 ml/hr
Dewpoint	40° F	4.4° C	Dewpoint	40° F	4.4° C