

5x10			6X12			8x20		
SPECIFICATION	INCH	METRIC	SPECIFICATION	INCH	METRIC	SPECIFICATION	INCH	METRIC
940 Laser			940 Laser			940 Laser		
Maximum Power	4,000w	4,000w	Maximum Power	4,000w	4,000w	Maximum Power	4,000w	4,000w
Feed fiber diameter	.002"	50µm	Feed fiber diameter	.002"	50µm	Feed fiber diameter	.002"	50µm
960 Laser			960 Laser			960 Laser		
Maximum Power	6,000w	6,000w	Maximum Power	6,000w	6,000w	Maximum Power	6,000w	6,000w
Feed fiber diameter	.002"	50µm	Feed fiber diameter	.002"	50µm	Feed fiber diameter	.002"	50µm
980 Laser			980 Laser			980 Laser		
Maximum Power	8,000w	8,000w	Maximum Power	8,000w	8,000w	Maximum Power	8,000w	8,000w
Feed fiber diameter	.004"	100µm	Feed fiber diameter	.004"	100µm	Feed fiber diameter	.004"	100µm
Speeds			Speeds			Speeds		
Rapid X and Y axes	8,500 IPM	216 m/min	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	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	Z axis	1,700 IPM	43 m/min
Maximum cutting	7,200 IPM	182 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			Acceleration of Cutting Head		
X axis	1.65g	16.2 m/sec ²	X axis	1.5g	14.7 m/sec ²	X axis	1.0g	9.8 m/sec ²
Y axis	1.65g	16.2 m/sec ²	Y axis	1.5g	14.7 m/sec ²	Y axis	1.0g	9.8 m/sec ²
Simultaneous X-Y	2.0g	19.6 m/sec ²	Simultaneous X-Y	2.0g	19.6 m/sec ²	Simultaneous X-Y	1.4g	13.7 m/sec ²
Z axis	2.9g	28.5 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			Machine Travel Limits		
X axis	121"	3,073 mm	X axis	158.5"	4,026 mm	X axis	240"	6,096 mm
Y axis	61"	1,549 mm	Y axis	79.75"	2,026 mm	Y axis	98.5"	2,502 mm
Z axis	10"	254 mm	Z axis	10"	254 mm	Z axis	10"	254 mm
Workpiece Dimensions (max)			Workpiece Dimensions (max)			Workpiece Dimensions (max)		
X axis	120"	3,048 mm	X axis	157.5"	4,000 mm	X axis	240"	6,096 mm
Y axis	60"	1,524 mm	Y axis	78.75"	2,000 mm	Y axis	98.5"	2,502 mm
Z axis (above each pallet)	1.5"	38 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), Z travel is 8" above lower pallet			NOTE: Lower Pallet Special Function (box cutting), Z travel is 8" above lower pallet			NOTE: Lower Pallet Special Function (box cutting), 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	Workpiece Weight (max)	6,690 lbs.	3,035 kg
Accuracies			Accuracies			Accuracies		
Absolute positioning X and Y axes	±.001"	±.025 mm	Absolute positioning X and Y axes	±.001"	±.025 mm	Absolute positioning X and Y axes	±.001"	±.025 mm
Repeatability X and Y axes	.001"	.025 mm	Repeatability X and Y axes	.001"	.025 mm	Repeatability X and Y axes	.001"	.025 mm
Contouring X and Y axes (maximum out of round 1" dia. hole @ 600 IPM)	.003"	.076 mm	Contouring X and Y axes (maximum out of round 1" dia. hole @ 600 IPM)	.003"	.076 mm	Contouring X and Y axes (maximum out of round 1" dia. hole @ 600 IPM)	.003"	.076 mm
Floor Dimensions (approx.)			Floor Dimensions (approx.)			Floor Dimensions (approx.)		
Length x Width x Height	412" x 183" x 105"	1047cmx465cmx267cm	Length x Width x Height	455" x 203" x 105"	1156cmx516cmx267cm	Length x Width x Height	708" x 301" x 105"	1798cmx765cmx267cm
Machine Weight	36,750 lbs.	16,670 kg	Machine Weight	42,200 lbs.	19,182 kg	Machine Weight	61,600 lbs.	27,941 kg
Assist Gas Pressure Range	5-400 psig	4-27.6 bar	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	Ambient Temperature Range	50° to 105° F	10° to 40°C
Chiller			Chiller			Chiller		
Circuit 1 – fiber engine	37 gal – Distilled Water	140 l – Distilled Water	Circuit 1 – fiber engine	37 gal – Distilled Water	140 l – Distilled Water	Circuit 1 – fiber engine	37 gal – Distilled Water	140 l – Distilled Water
Circuit 2 – optics, motors, head	17 gal – DowthermSR1 & water	64 l – DowthermSR1 & water	Circuit 2 – optics, motors, head	17 gal – DowthermSR1 & water	64 l – DowthermSR1 & water	Circuit 2 – optics, motors, head	17 gal – DowthermSR1 & water	64 l – DowthermSR1 & water
Fume System			Fume System			Fume System		
Duct Opening ID	20.38"	517.65 mm	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	127m³/min @ 19mm	Recommended air flow @ ¾" static	4,500 scfm @ .75" static	127m³/min @ 19mm	Recommended air flow @ ¾" static	4,500 scfm @ .75" static	127m³/min @ 19mm
Compressed Air Requirements			Compressed Air Requirements			Compressed Air Requirements		
Air Purge	480 scfh @ 80-140 psig	480 scfh @ 5.5-9.6 bar	Air Purge	480 scfh @ 80-140 psig	480 scfh @ 5.5-9.6 bar	Air Purge	480 scfh @ 80-140 psig	480 scfh @ 5.5-9.6 bar
Max temperature	100°F	37.7°C	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	Max oil/water content	.01 OZ/hr	.3 ml/hr
Dewpoint	40° F	4.4° C	Dewpoint	40° F	4.4° C	Dewpoint	40° F	4.4° C