

## FIBERMAK Fiber Optic Laser Cutting Machine

PERSONATOR		Watt	2000-ROFIN FL 020
POWER RANGE		%	10-100
LASER BEAM QUALITY @ COLLIMATOR			≤ 0.1" mrad
POWER STABILITY		%	± 2
PULSE FREQUENCY RANGE		kHz	CW-5
LASER WAVE LENGTH		Nm	1.08 + 10 nm
EXCITATION			Laser diod
COOLING WATER FLOW RATE		Gallons/min	29
MAXIMUM WORKSHEET DIMENSIONS		Inch	118" x 59"
CUTTING CAPACITY (high quality)			
Mild steel		Inch	0.5"
Stainless steel		Inch	0.2"
Aluminum		Inch	0.1"
MAXIMUM BURDEN CAPACITY		Lbs	3300
MACHINE AXES			4-axes (X,Y,Z,U (X2),)
AXIAL MOVEMENTS			
X, U axes	Linear motorized table	Inch	120"
Y axis	Linear motorized bridge	Inch	61"
Z axis	Servo motorized cutting head	Inch	6"
ACCELERATIONS			
X, U axes	Linear motorized table	G	2
Y axis	Linear motorized bridge	G	2
Z axis	Servo motorized cutting head	G	2
MAXIUM AXES VELOCITIES			665" IPM (simultaneous)
POSITIONING ACCURACY			± .001"
REPETITION ACCURACY		Inch	± .00006"
SHUTTLE TABLE (automatic loading/unloading unit)		Palette	2 (35 sec)
ASSIST GAS			
Assist sensor 1	Mild steel	-	Oxygen (0,1-6 bar)
Assist sensor 2	Stainless steel	-	Nitrogen (0,2-25 bar)
Assist sensor 3	Aluminum	-	Dry air or nitrogen (0,2-25 bar)
CUTTING HEAD		-	Precitec HPSSL
CAD/CAM software		-	Lantek Expert Cut
TOTAL ELECTRIC POWER NECESSITY		HP	47 – 40
MACHINE DIMENSIONS (L x W x H)		Inch	353" x 138" x 94"
MACHINE WEIGHT		Lbs	30800