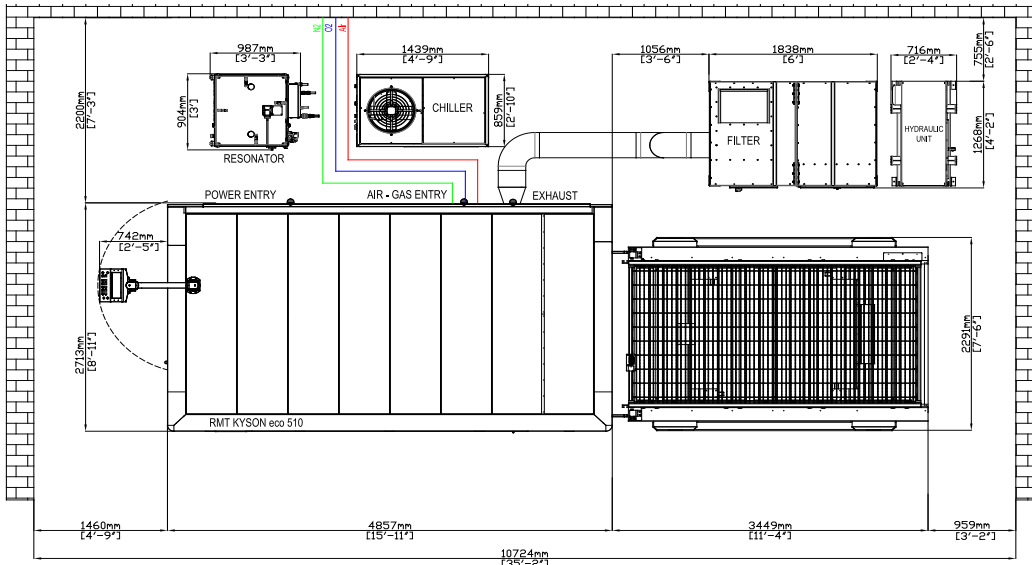




# KYSON

**Rebel**  
510 FIBER LASER



Size		5' x 10' (1550x3050mm)		
Model Number		Kyson Rebel 510-0.5	Kyson Rebel 510-1	Kyson Rebel 510-2
Laser light source		500 W	1000 W	2 kW
Conservative Production Cutting Capacity **	Mild Steel Oxygen	.197" (5mm)	.375" (10mm)	.625" (16mm)
	Mild Steel Nitrogen	.075" (2mm)	.125" (3mm)	.250" (6mm)
	Stainless Steel	.125" (3mm)	.187" (5mm)	.312" (8mm)
	Aluminum	.075" (2mm)	.125" (3mm)	.312" (8mm)
	Brass	.035" (1mm)	.075" (2mm)	.187" (5mm)
	Copper	.035" (1mm)	.075" (2mm)	.187" (5mm)
Laser Fiber Diameter *		.002" (50 µm)	.002" (50 µm)	.004" (100 µm)
Pulse Peak Power		500 W	1 kW	2 kW
Average Power Consumption (380v 3ph 50 Hz+ 10%)		15 kW	17 kW	21 kW
Pulse Mode		Freq: 5 - 5000Hz Duty: 0 - 100%		
Power Stability		± 1-2% (power monitor)		
Beam Mode		Direct		
Protection of Laser Beam		Industrial Fiber Cable		
Laser Gas Composition		N/A		
Cooling Water Flow Rate		1.58 gpm (6 l/m)	2.11 gpm (8 l/m)	2.64 gpm (10 l/m)
CNC Controller & Operator Panel		15" Touch Display, Ethernet Enabled, 2GB RAM with 8 GB Cfast Card		
Axis Movement		High Speed 4 Axes Servo Motor System		
Positioning System		Rack and Pinion		
Axis Speed (X,Y Traverse Speed)		2,755 IPM (70 m/min)		
Acceleration		X,Y 0.5G; Z 2.5G		
Repeatability		± .0020" (± 0.05mm)		
Positioning Accuracy		± .0040" (± 0.1mm)		
Axis	Y AXIS	5' 1" (1550mm)		
	X,U AXIS	10' (3050mm)		
	Z AXIS	5.9" (150 mm)		
Sheet Dimensions		5' x 10' (1530x3050mm)		
Maximum Load Capacity		1,653 lbs (750 kg)		
Z - Axis Distance Control		Non-Contact		
ASSIST GAS	Mild Steel	Oxygen 7.25 - 87 PSI (0.5-6 Bar)		
	Stainless Steel	Nitrogen 7.25 - 362 PSI (0.5-25 Bar)		
	Aluminum	Dry Air or Nitrogen 7.25 - 362 PSI (0.5-25 Bar)		
Cutting Head		Precitec Lightcutter (Manual Focus)		
CAD/CAM Software		RADAN CAD / CAM		
Machine Dimensions (L x W x H)		356" x 107" x 87" (9048x2713x2200mm)		
Machine Weight		16,424 lbs (7,450 kg)		