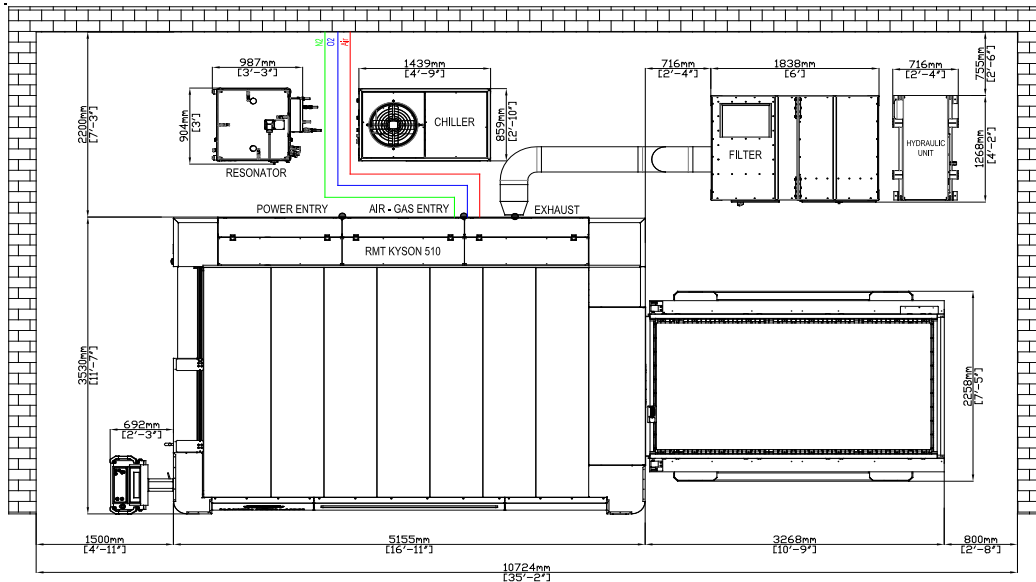




KYSON 510 FIBER LASER



| Size | | 5' x 10' | | | |
|---|---------------------|---|-------------------|-----------------------|--------------------|
| Model Number | | Kyson 510-2 | Kyson 510-3 | Kyson 510-4 | Kyson 510-6 |
| Laser light source | | 2 kW | 3 kW | 4 kW | 6 kW |
| Conservative Production Cutting Capacity ** | Mild Steel Oxygen | .625" | .750" | .875" | 1.00" |
| | Mild Steel Nitrogen | .250" | .250" | .312" | .312" |
| | Stainless Steel | .375" | .500" | .625" | .750" |
| | Aluminum | .312" | .500" | .625" | .625" |
| | Brass | .187" | .250" | .375" | .500" |
| | Copper | .187" | .250" | .312" | .375" |
| Laser Fiber Diameter * | | .004" (100 µm) | .004" (100 µm) | .004" (100 µm) | .004" (100 µm) |
| Pulse Peak Power | | 2 kW | 3 kW | 4 kW | 6 kW |
| Average Power Consumption (220v/460v 3ph ± 10%) | | 21 kW | 31 kW | 34 kW | 38 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 | | 2.64 gpm (10 l/m) | 5.28 gpm (20 l/m) | 5.28 gpm (20 l/m) | 10.56 gpm (40 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 | | Linear | |
| Axis Speed (X,Y Traverse Speed) | | 5,551 IPM (141 m/min) | | 7,874 IPM (200 m/min) | |
| Acceleration | | 1.5G | | 3G | |
| Additional Power Consumption | | - | | + 20 kWh | |
| Repeatability | | ± .0006" (± 0.015mm) | | ± .0004" (± 0.01mm) | |
| Positioning Accuracy | | ± .0012" (± 0.03mm) | | ± .0004" (± 0.01mm) | |
| Axis | X, U AXIS | 5' 1" (1550mm) | | | |
| | Y AXIS | 10' (3050mm) | | | |
| | Z AXIS | 5.9" (150 mm) | | | |
| Sheet Dimensions | | 5' x 10' (1530x3050mm) | | | |
| Maximum Load Capacity | | 3,307 lbs (1500 kg) | | | |
| Shuttle Table Change Time | | Double pallet system. Exchange time 35 sec with max sheet weight | | | |
| 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 Procutter (Auto Focus) | | | |
| CAD/CAM Software | | RADAN CAD / CAM | | | |
| Machine Dimensions (L x W x H) | | 359" x 139" x 85" (9115x3530x2155mm) | | | |
| Machine Weight | | 24,691 lbs (11,200 kg) | | | |