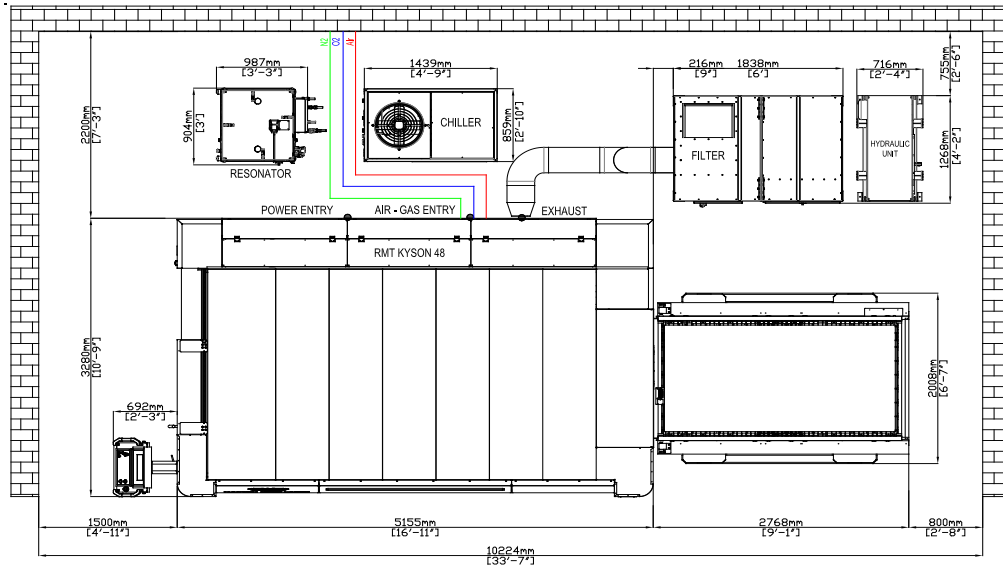




# KYSON

## 48 FIBER LASER



| Size  |                     | 4' x 8'   |                                 |                           |
|---|---------------------|---|---------------------------------|---------------------------|
| Model Number                                    |                     | Kyson 48-0.5  | Kyson 48-1                      | Kyson 48-2                |
| Laser light source                              |                     | <b>500 W</b>  | <b>1 kW</b>                     | <b>2 kW</b>               |
| Conservative Production Cutting Capacity **     | Mild Steel Oxygen   | .197"   | .375"                           | .625"                     |
|   | Mild Steel Nitrogen | .075"   | .125"                           | .250"                     |
|   | Stainless Steel     | .125"   | .187"                           | .375"                     |
|   | Aluminum            | .075"   | .125"                           | .312"                     |
|   | Brass               | .035"   | .081"                           | .187"                     |
|   | Copper              | .035"   | .075"                           | .187"                     |
| Laser Fiber Diameter *                          |                     | .002" (50 µm)   | .002" (50 µm)                   | .004" (100 µm)            |
| Pulse Peak Power                                |                     | 500 W   | 1 kW                            | 2 kW                      |
| Average Power Consumption (220v/460v 3ph ± 10%) |                     | 15 kW   | 17 kW                           | 21 kW                     |
| Pulse Mode                                      |                     | Freq: 5 - 5000Hz Duty: 0 - 100%                                   |                                 |                           |
| Power Stability                                 |                     | ± 0.5 %<br>(power monitor)  | ± 1-3%<br>(power monitor)       | ± 1-2%<br>(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   | 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                    |                     | -   | <b>+ 20 kWh</b>                 |                           |
| Repeatability                                   |                     | ± .0006" (± 0.015mm)  | ± .0004" (± 0.01mm)             |                           |
| Positioning Accuracy                            |                     | ± .0012" (± 0.03mm)   | ± .0004" (± 0.01mm)             |                           |
| Axis  | X, U AXIS           | 4' 2" (1270mm)  |                                 |                           |
|   | Y AXIS              | 8' 4" (2550mm)  |                                 |                           |
|   | Z AXIS              | 5.9" (150 mm)   |                                 |                           |
| Sheet Dimensions                                |                     | 4' 1" x 8' 2" (1250x2500mm)                                       |                                 |                           |
| Maximum Load Capacity                           |                     | 1,322 lbs (600 kg)  |                                 |                           |
| Shuttle Table Change Time                       |                     | Double pallet system. Exchange time 30 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 Light Cutter   | Precitec Procutter (Auto Focus) |                           |
| CAD/CAM Software                                |                     | RADAN CAD / CAM   |                                 |                           |
| Machine Dimensions (L x W x H)                  |                     | 340" x 130" x 85" (8615x3280x2155mm)                              |                                 |                           |
| Machine Weight                                  |                     | 22,928 lbs (10,400 kg)  |                                 |                           |