

PeddiLaser Plate 6025 40kW

Power requirements

(FLA = Full Load Amperage @ 480V) **230.5 total kVA**

Stabilizer (Machine & Laser source).....	137.0 kVA – 164.98 FLA	3ph 200A breaker
Chiller	41.0 kVA - 49.37 FLA	3ph 60A breaker
Dust Collector/Filtration	15.0 kVA - 18.1 FLA	3ph 30A breaker
Air Compressor	37.0 kVA - 44.6 FLA	3ph 60A breaker
Air Dryer	0.5 kVA	1ph 10A breaker

The customer must provide power to all five of the above-listed items, either through a distribution panel or individual fused disconnects.

Gases / Air requirements

Oxygen

- (1) The purity of oxygen (O₂) is required to be $\geq 99.5\%$.
- (2) The working pressure range of the pressure-reducing valve is between 0-290 psi, and the flow rate is 100 CFM

Nitrogen

- (1) Nitrogen (N₂) purity requirement $\geq 99.99\%$.
- (2) Cutting nitrogen must be water-free, oil-free, and oxygen-free (H₂O $\leq$ 100Vpm, CnHm $\leq$ 1Vpm, O₂ $\leq$ 5Vpm)
- (3) The working pressure range of the pressure-reducing valve is between 0-580 psi, and the flow rate is 170 CFM

Compressed air

- (1) Machine operation only - minimum pressure of 120 psi and flow rate of not less than 32 CFM
- (2) Air cutting - minimum pressure of 220 psi and flow rate of 74 CFM

Heavy-duty regulators for Oxygen and Nitrogen are provided with the machine
Any air compressor must meet the above-stated requirements.