



Boss HD Pre Install Guide

Thank you for the purchase of your Boss HD plasma table. In this guide we will go over pre-installation guidelines such as electricity needs, grounding, air and floor space requirements. During the process feel free to contact your Boss Table rep for any questions not covered in this guide.

Consumables & Miscellaneous

Boss Table supplies a starter kit of consumables. Consult with your sales rep for additional consumable orders. Consumables and other miscellaneous items are not supplied at the time of installation and must be preordered.

Supplies Furnished During Installation

- Up to 20' power wire from Kjellberg unit to power disconnect. (additional wire length available, see sales rep)
- #4 Grounding wire
- Miscellaneous hardware
- 15' Gas lines (additional hose length available, see sales rep)

Customer Supplied Items Installed Before Machine Installation

- Air Compressor
- Air Lines
- Air Dryer
- Gas Bottles
- Regulators (available through Boss Tables)
- Consumables (additional)
- Power to disconnect box

Rigging

Minimum 10,000lbs forklift or equivalent with fork extensions required at time of installation. Fork machine from the bottom. Do not strap lift or damage may occur.

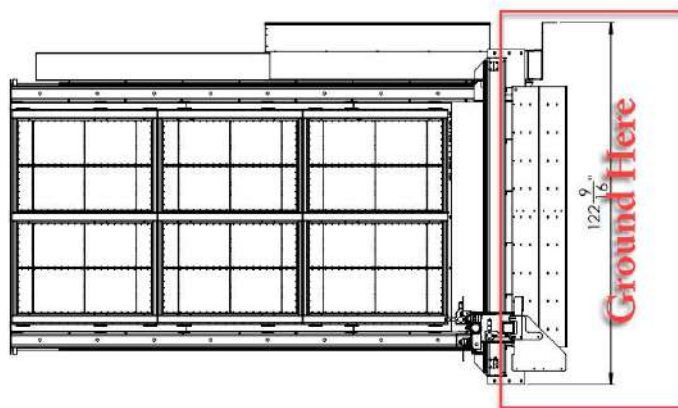


Utility Requirements

- Smart Focus 200 fuse size 80A, 62A draw, wire size 4AWG
- Smart Focus 300 fuse size 125A, 95A draw, wire size 2AWG
- Smart Focus 400 fuse size 180A, 140A draw, wire size 1AWG
- Main cable has to be connected to a circuit breaker in compliance with applicable regulations.
- Power must be visibly disconnected from main connection during installation.
- 110v, 20amp outlet near table location separate from power unit.

Grounding

A dedicated earth ground is required with under 25 ohms resistance and within a 10ft area of the table. It is preferred to place the ground rod in the area below. Grounding wire will be supplied during installation along with grounding tester.



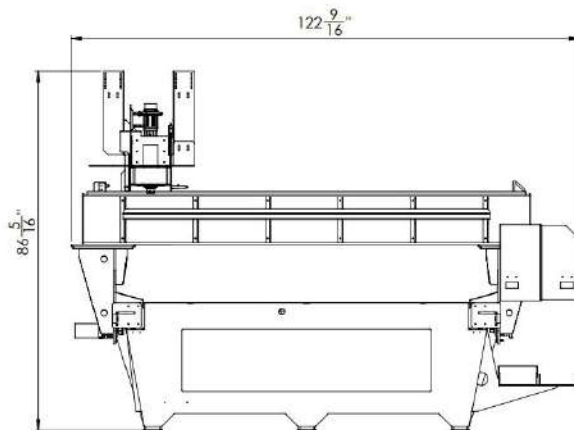
Air & Gasses

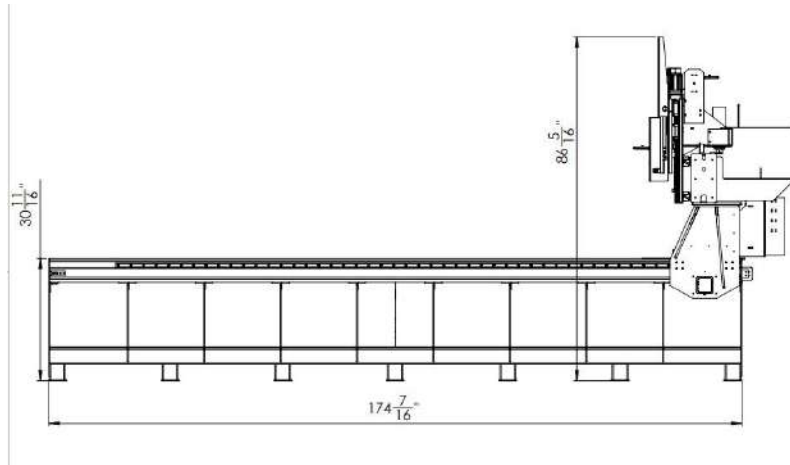
Clean, dry air is required for the Kjellberg plasma unit. Use of a refrigerated air dryer mated with water/oil capture filtration cartridges with 10 cfm of air flow must be used with any compressor. A decant regenerative filter is the preferred way to dry air as it will remove more water than a refrigerated dryer. Air psi must be a consistent 150 psi at the Kjellberg unit. An air booster/maintainer is available through Boss Tables. Bottled air (in extreme cases) or equivalent can be used to meet this need. A bottle bank for the assorted gases will need to be in close proximity to the Kjelberg unit. Plasma gas bottles will need 2- two stage regulators for steel, ar / o2 and 3- two stage regulators for non-ferrous metal, h2, n2 and f5. Regulators can be purchased through Boss Tables.

Floor Space Requirements

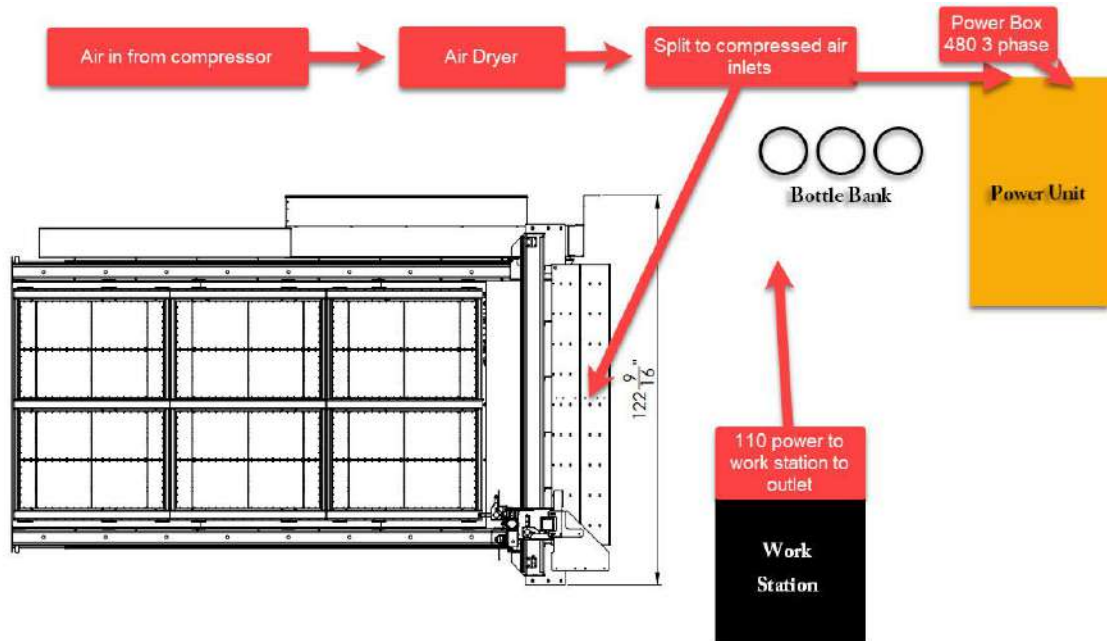
The Kjellburg unit requires 12" of clearance around all four sides during operation. During maintenance 48" of clearance is required. It has a footprint of 27" w x 48" d x 72" h. The suggested minimum space around the table is 36". The computer stand is 29" w x 27" d x 62" t. Bottle banks should be secured to meet local regulations. The Kjellburg unit should be in an area free of explosion and moisture hazards with an ambient temperature of -50f – 104f. Relative humidity should be max 90% @ 68f or max 50% @ 104f. 20ft of torch lead from the table to the power unit standard. Additional torch length available upon request.

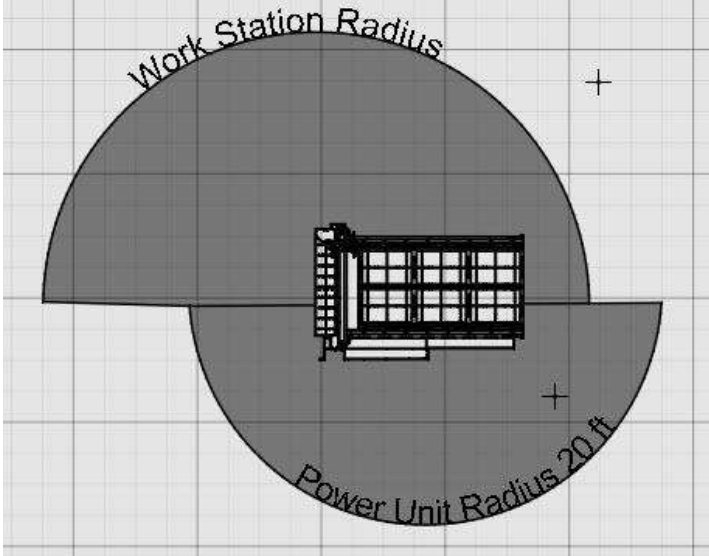
Footprint example- 6'x12'





Potential Layout





BOSS CNC Plasma Tables Specs

