

ESAB INSTALLATION CHECKLIST

This checklist reviews the preparation you should have completed before the installation of your new ESAB Cutting Machine. It contains vital information that must be adhered to in order to expect proper performance of the cutting machine. Failure to follow these instructions may void warranties and incur charges for field service visits. If the machine is to be installed by an ESAB engineering service representative, it is important that these be finished prior to scheduling his arrival. The service engineer will supervise and certify the remaining critical areas of machine installation and provide training. Please advise ESAB approximately 2 weeks prior to completion of your installation requirements. This will avoid any unnecessary delays or service charges. It will also allow more time for operation and maintenance training of your personnel.

GENERAL PROVISIONS AND PREPARATIONS

The following installation requirements are the customer's responsibility. Equipment services supplied by the customer should meet the installation requirements of all regulations or equivalent before placing system in use.

1. Area cleared to required dimensions.
2. RECOMMEND: Concrete floor level and free from severe vibration or major cracks. Minimum six (6) inches thick reinforced with No. 5 re-bar on twelve (12) inch centers. Center of re-bar to be minimum of 1.75 inches above bottom surface of slab. Recommend slab be free of expansion joints.
3. Machine set in position in your plant. Machines are loaded at our facility with forklift. Forks should be long enough to extend under and across the machine (approximately 8').
4. All equipment necessary for proper installation of the machine, such as cranes, forklifts, hand tools, etc.
5. All installation labor of sufficient competency for proper and expeditious installation.
6. Source of electrical power, with all necessary disconnect boxes or outlets installed and ready for connection to machine. Any required voltage regulator is the customer's responsibility.
7. Source of properly regulated gases with all necessary piping, shut-off valves, and filters installed nearby and ready for connection to machine. All safety equipment such as hydraulic back pressure valves, flashback arrestors, and check valves required on oxygen and fuel gas systems are installed per all local industrial standards. See Table 1 for gas requirements.

Unless otherwise specified, hoses and cables will be supplied that extend 15 feet from the termination of the hose trolley system or powertrack, as applies. Hose trolley systems terminate at the end of the rail system while powertracks terminate at the center of the rail system. (additional lengths can be supplied, but must be specified and quoted as special).

8. Machine operators and maintenance personnel available for training when requested by the Service Representative.
9. A suitable ground rod, copper plated steel.
10. Recommend machine be anchored to the concrete.

In order to ensure prompt installation and service to all of our customers, Please verify the following requirements are in place and ready PRIOR to the arrival of our installing engineer.

Installation delays resulting from inadequate prerequisite services will result in additional charges.

Piecemaker 2 MACHINE ONLY Utility Requirements

- Required: 1 – 30 amp disconnect @ 575/460/230VAC/60Hz Single Phase
1 – Air Regulator with ½” NPT Female fitting @ 100psi for 100cfh Maximum
Air MUST be clean and dry, filtered to a minimum of 40 micron.

Plasma Power Source Utility Requirements

- Required: 1 – Fused disconnect or breaker per above specifications
1 – Air Regulator with ½” NPT Female fitting @ 90psi

Input Requirements			Input & Gnd Conductor Size CU / GA	Fuse Size Amps
Volts AC	Phase	Amps		
208	1	55	6	80
208	3	26 / Ph.	6	50
230	1	49	6	80
230	3	24 / Ph.	6	50
400	3	13	10	25
460	3	11	10	25
575	3	9	10	20

VapoJet Liner Cutting Utility Requirements

- Required: Clean, filtered Water Source
1 – 15/30 Amp Fused disconnect or breaker @ 460/230VAC/60Hz 3 phase

Approximate Shipping Weights

Estimate 3600lbs per 6'x12' cutting area

Approximate Floor Space Requirements

Cutting width + 3 feet includes walking area and room to open access panel doors

Cutting length + 6 feet

If cutting area is 5' x 10', Floor Space Required is approximately 8' x 16'.