

## 1 Preparation before installing the machine

Prior to installation of the flatbed cutter a couple of things need to be prepared in order to facilitate a smooth installation. The installation place also needs to meet certain requirements. At the end of the paragraph there is a checklist this must best filled in before the arrival of the machine.

### 1.1 Shipping, arrival and floor plan

- The shipping dimensions of the flatbed crate are 253 cm x 223 cm x 142 cm (99.6" x 87.8" x 56"). The crate itself should be handled with a forklift or hand pallet truck. However a forklift is necessary to lift the machine from the pallet.
- Length of the forks should be at least 180 cm (6') and a lifting capacity of at least 2000 kg (4400 pounds).
- Outside doorway and interior corridors and doorways to the unpacking area should at least be 230cm (90.5"). Wider widths are needed for turning radius.
- If the machine has to be transported inside the facilities without the crate, then the doorways should be at least 243 cm (96") wide. And the route to the installation location should be free of obstacles.
- There may be no stairs or steps between the place where the machine is set with the forklift and where it has to be placed.
- Check figure below for dimensions of the installed machine so that the area can be prepared for installation.
- It is recommended to place the machine on an antistatic floor. A solid and level concrete surface is recommended. Wood framed/constructions are not suitable. The height difference over the whole installation area should not more than 3cm (might be critical if those 3cm is just where the safety poles are fixed)
- Allow extra room during installation.

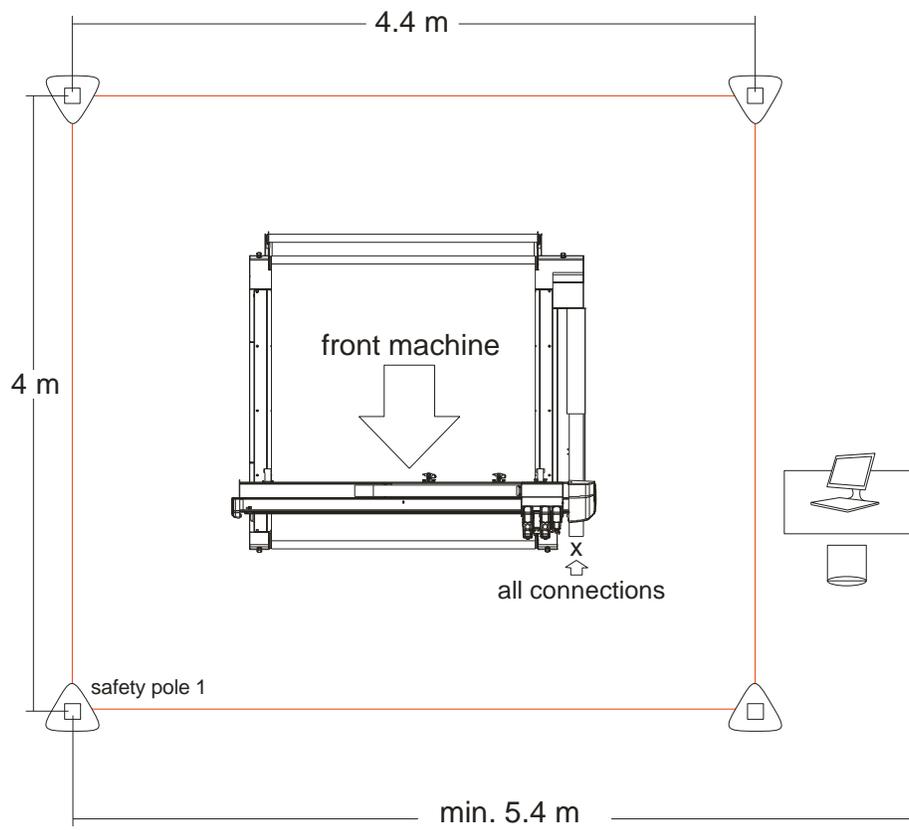


FIG 1-1  
FLOORPLAN

## 1.2 Connections

### 1.2.1 Electrical:

Power requirements (including Summa's vacuum set):

- Or: 3 x 208V + N , 60Hz, max 30A
- Or: 3 x 400V + N , 50Hz, max 15A
- Or: 3 x 230V, 50Hz, max 15A

The flatbed cutter is delivered without a cable for connection between the table and the wall socket. The user should provide such a cable.

The length of the cable should be the distance between the wall socket and the power switch of the cutter plus 2 meter (6 feet).

The cable should be 3 or 4 core + earth (according to the available power).

The diameter of each core should be at least 2.5 mm<sup>2</sup> for European market (3 X 400V + N and 3 X 230V).

The diameter of each core should be at least AWG 10 with MTW rating for American market (3 x 208V).

The overall diameter of the cable should be between 9 mm (0.36") and 17 mm (0.67")

Wall socket and plug on cable should be provided by the user.

The connection to the mains may also be with an electric wall box.



**CAUTION:** Be sure to check regional electrical requirement for type of wall socket and plug and fuse for the wall socket or electrical wall box.

### 1.2.2 Pneumatic:

For machines with pneumatic advance clamps a 7 bar (100 PSI) @ 20 l/min compressed air supply is required.

The air quality should be clean and dry and filtered to 15 microns.

The flatbed is delivered with a plastic tube diameter 8mm to connect with compressed air.

The user should provide the parts for connection.

The length of the tube should be the distance between the wall socket and the power switch of the cutter plus 2 meter (6 feet).

The connection to the tube should be of the type one touch pneumatic fitting for metric tubes diameter 8mm.

### 1.2.3 Computer:

The flatbed cutter is delivered with a 3 meter USB cable and a 0.5 extension USB cable for connection between the flatbed and the computer. These cables should be used to connect the cutter to the computer directly without the use of hubs (powered or not) or extension cables (self-powered or not).

### 1.3 Check list

To avoid complications during the installation, use this checklist for preparation. Fill it and send it to the technician that will install the flatbed cutter.

- The delivery truck can unload the crate and crate can be moved inside.
- A suitable forklift is available for lifting cutter from the crate (lifting capacity 2000kg, fork length min 180cm). A hand pallet truck with the same specifications can also be used to move the crate and machine, but a forklift is necessary to lift the machine from bottom plate of the crate.
- Additional people are available when needed to unpack (4 for lifting top of crate) and set up the cutter (2 people further on).
- The path from the unloading place to the installation place is free of any obstacles (steps, stairs, radiators,..) and doorways are wide enough.
- The floor where the machine has to be installed meets the requirements.
- The power main connection or the parts to connect to the mains are available. A person with knowledge of the local requirements for electrical installation is available or has prepared the connection.
- The compressed air connection or the parts to connect to compressed air are available.
- The environment complies with the requirements for operating the machine.
- The installation area is easy accessible, free of debris. It is recommended if the installation area has been marked on the floor.
- A PC is pre-installed (Windows and internet connection) and ready for use and installation of the programs delivered with the cutter.
- Future operator is available during installation and training.
- Extra info for facilitating installation:
  - Used rip:
  - Used design program:
  - Ordered options and tools:
  - Application description: