

Site Preparation Document



Instructions and Sign-off

Document history :

Publication date :	Release version
1-01-20011	prerelease document
07-03-20011	version 001
08-12-2011	version 002 (remark base safety poles + minimum screen resolution)
25-04-2012	Added monophasic and change system requirements + update
10-10-2012	Changed system requirements
03-05-2012	Added requirements for router option
11-09-2013	Added requirements for POT
17-10-2013	Added no router for monophasic option
05-03-2015	Page added with information over pneumatic connection for POT tool
12/09/2017	Clarify pneumatic air requirements
17/10/2017	Updated Windows versions and added weight info
	General update due to price list change
	Change distance safety poles

Notice

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Site preparation document

How to use this section

This document is divided into two sections.

- The first section provides the information needed to prepare the physical location for the installation of the F1612. It is also helpful to help determine the internal transportation of the flatbed cutter from the customers' loading/unloading dock to its final location. It also includes all the specifications for power and other connections.
- The signatures pages give information on the site the flatbed will have to be installed and on the system configuration (workflow) in which the flatbed has to be configured. All this information will facilitate the installation. There are 2 (two) signatures pages that have to be filled in and then signed afterwards.



Note: Before the installation can be scheduled, the customer location must be prepared. The customer should check and mark all points in the checklist and fill in where necessary and return this document signed to the installation engineer.



Note: There exists also an installation completion document it is recommended to use this document also after that the flatbed is installed. Always make sure there is a copy of the document (completely filled in) for each party.



CAUTION: The amount of time the engineer will spend on the site for installation is limited. Proper site preparation is crucial to the success of the installation. Any delay due to missing machinery, options, accessories, people or other installation requirements will be added to the onsite-time and will be charged supplemental.

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 that must best filled in before the arrival of the machine.

Shipping, arrival and unpacking requirements



FIG 1-1

SHIPPING CRATE – LARGE SUMMA STICKERS INDICATES FRONT OF MACHINE

- The shipping dimensions of the flatbed crate are 99.6 x 87.8 x 56 inch. 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 6 feet and a lifting capacity of at least 4400 pounds.
- Outside doorway and interior corridors and doorways to the unpacking area should at least be 90.5 inches. Wider widths are needed for turning radius.
- If the machine needs to be transported inside the facilities without the crate, then the doorways should be at least 96”inches 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 be not more than 3 cm (might be critical if those 3 cm is just where the safety poles are fixed).
- Allow extra room during installation.
- Weight of the table is 1920 – 1980 lbs. with packaging or 1212-1280 lbs. without packaging, depending on the configuration.

Floorplan

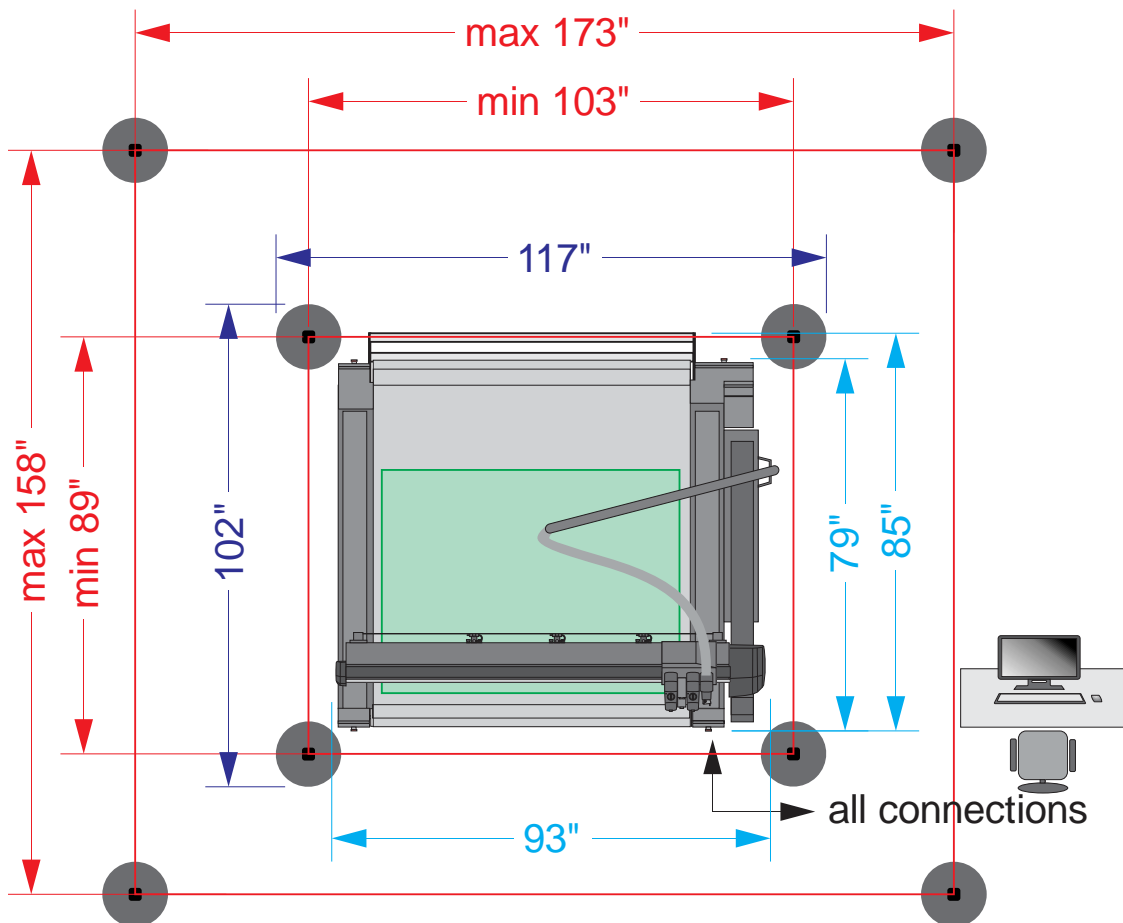


FIG 1-2
FLOORPLAN

Minimum height for optional router system

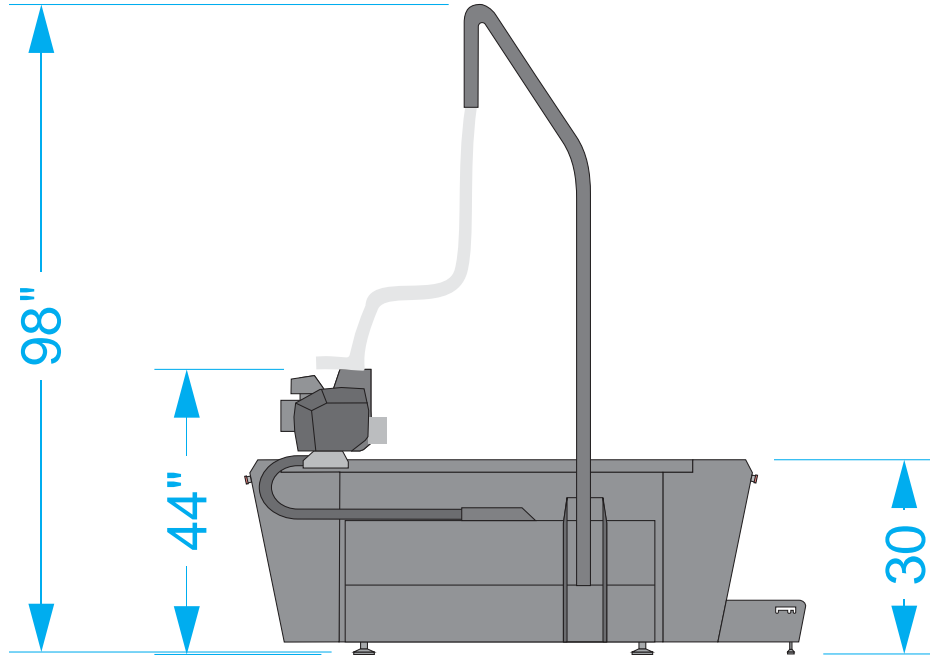


FIG 1-3
SIDE VIEW

The flatbed cutter has two basic connections. One connection is optional.

- Electrical (one power cord for both vacuum pump and flatbed cutter).
- USB connection to the computer.
- Compressed air for certain options.

All routing for the cables/airline are connected around the area indicated by 'all connections' on the figure above.

Do also not forget to provide power and a network connection for the computer.

Installation tools

Please refer to document MI9049 for a complete list of the tools that are needed for installing a F1612.

System requirements

- **CPU:** An x86-32 or x86-64 compatible dual-core processor (Intel or AMD), minimum dual-core 2GHz
- **Memory:** Minimum 1GB RAM.
- **Supported operating systems:** Windows 7 (Professional, Enterprise and Ultimate), Windows 8 (Pro and Enterprise) and Windows 8.1 (Pro and Enterprise). Windows 10.
- **Harddisk:** 5400RPM or above (7200RPM preferred) minimum 500MB free, recommended 5GB. No external USB hard disk.
- **Network:** recommended with connection to internet, Customer support is using Teamviewer for remote access and support over the internet.
- **Video Card:** Minimum 1200x800
- **USB:** USB 2.0 Verify that the USB host controller chipset is Microsoft certified. The F1612 is not guaranteed to operate with a USB 2.0 host driver from OWC.



CAUTION: Apart from the different Windows **versions** mentioned above, there exist also special **editions** of Windows. For Europe, there exist the N edition and for South Korea, there exist the KN edition. If this edition is installed, then the media pack has to be installed also, otherwise there will be problems with the camera. To install media pack got to: <https://support.microsoft.com/en-us/help/3145500/media-feature-pack-list-for-windows-n-editions>



CAUTION: It is highly recommended to use a dedicated computer to connect to the table. If other programs and services not related to driving the table run, then they can take up too many resources so that the minimum system requirements will no longer suffice.

Computer connection

The flatbed cutter is delivered with a 10 feet USB cable and a 2 feet 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). The computer should have at least 4 free USB connections.

Electrical connection

Power requirements 3 phase! (including Summa's standard vacuum set):

- Or: 3 x 208V + N , 60Hz, max 30A
- Or: 3 x 400V + N , 50Hz, max 20A
- Or: 3 x 230V, 50Hz, max 20A

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 meters (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 mm² 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 0.36 and 0.67 inch.

Wall socket and plug on cable should be provided by the user, as described in international standard IEC 60309.

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.

Pneumatic connection

For machines for use without pneumatic tools a 100 PSI @ 0.7cfm compressed air supply is required.

For the POT option a 100 PSI @ 12.4cfm compressed air supply is required.

The air quality should be clean and dry and filtered to 15 microns (Class 4 ISO 8573-1), which usually means that it is necessary to install a compressed air dryer.

The flatbed is delivered with a plastic tube diameter 8 mm 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 meters (6 feet).

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

Pictures to help and determine which connectors to provide

Electrical connector



Size and colour of connector may differ, this depends on supply voltage.
Search tip for the internet: type 'IEC60309 connector' in search engine

Pneumatic connector



Side 1 is for connection to the table. Side 2 is for connection to existing installation, so it might require another connection type than on the picture.



Note: Side 1 is mandatory. This will be connected to the tube diameter 8 mm that comes out of the table.

Search tip for the internet: type 'one touch pneumatic fitting for metric tubes' in search engine.

Requirements for router option

The router is an option that needs to be installed by a technician. It involves both mechanical and electrical changes to the table.

Minimum firmware and program revisions:

- Firmware table: 010 (MD9973) with Summa Flatbed Tools: 1.6
- SummaFlex (PRO): 7.1.02

Currently Summa America offers no vacuum cleaner

Type	3x 208V + N ,60 Hz	3x 208V ,50-60 Hz
3rd party	Max 1500W ⁽³⁾ or	Max 1500W ⁽³⁾ or
	Max 2000W ⁽³⁾ with: Extra socket ⁽¹⁾ Relay 30A ⁽²⁾	Max 2000W ⁽³⁾ with: Extra socket ⁽¹⁾ Relay 30A ⁽²⁾

(1) Extra socket means that a secondary wall socket (single phase) needs to be provided for the vacuum cleaner.

(2) Router options build before September 2017 may have a relay for the vacuum cleaner of 12A. In this case, the relay needs to be changed by a relay 30A (kit 500-9346).

(3) Specifications given for a 110V vacuum cleaner.

The specifications for the vacuum cleaner are:

- Air output (at fan): minimum 106 cfm
- Vacuum: minimum 90 Inch of water
- Hose diameter is 35 – 38 mm (exact specifications of connection can be found on the internet under 'screw cuff a72-84V'). Such a normally the standard hose diameter, check to be sure.

Signature pages

This document consists out of two parts.

First a checklist that has to be completed.

Then some extra info that has to be filled in.

Fill in the checklist and the extra information.



CAUTION: The amount of time the engineer will spend on the site for installation is limited. Proper site preparation is crucial to the success of the installation. Any significant delay due to missing machinery, options, accessories, people or other installation requirements will be added to the onsite-time and will be charged supplemental.

Certification pages:

I certify that all site preparation tasks have been completed and the necessary parts/ tools and people will be available during training. This document consists out of two pages.

Make sure all items, conditions and persons in the following checklist are available and fill in the extra info.

Company name:

Name:

Signed:

.....

Date

If this is complete (both pages), fax it back or scan and mail it to the installation technician.

Check list

- ☐ 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 4400 lbs, fork length min 6 feet). 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. Additional requirement for the safety poles: choose one of the two options below.
 - ☐ The safety poles can be fixed to the floor.
 - ☐ The safety poles cannot be fixed to the floor, but the extra base plates were ordered.
- ☐ 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. Choose one of the options below:
 - ☐ 3 phasic power supply and type:
- ☐ 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. The PC should have 4 free USB connectors.
- ☐ Future operator is available during installation and the entire time allocated for training.

Extra info

Used programs for designing and ripping:

- Operating system:
- Design program:
- RIP:

Extra info or requests:

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