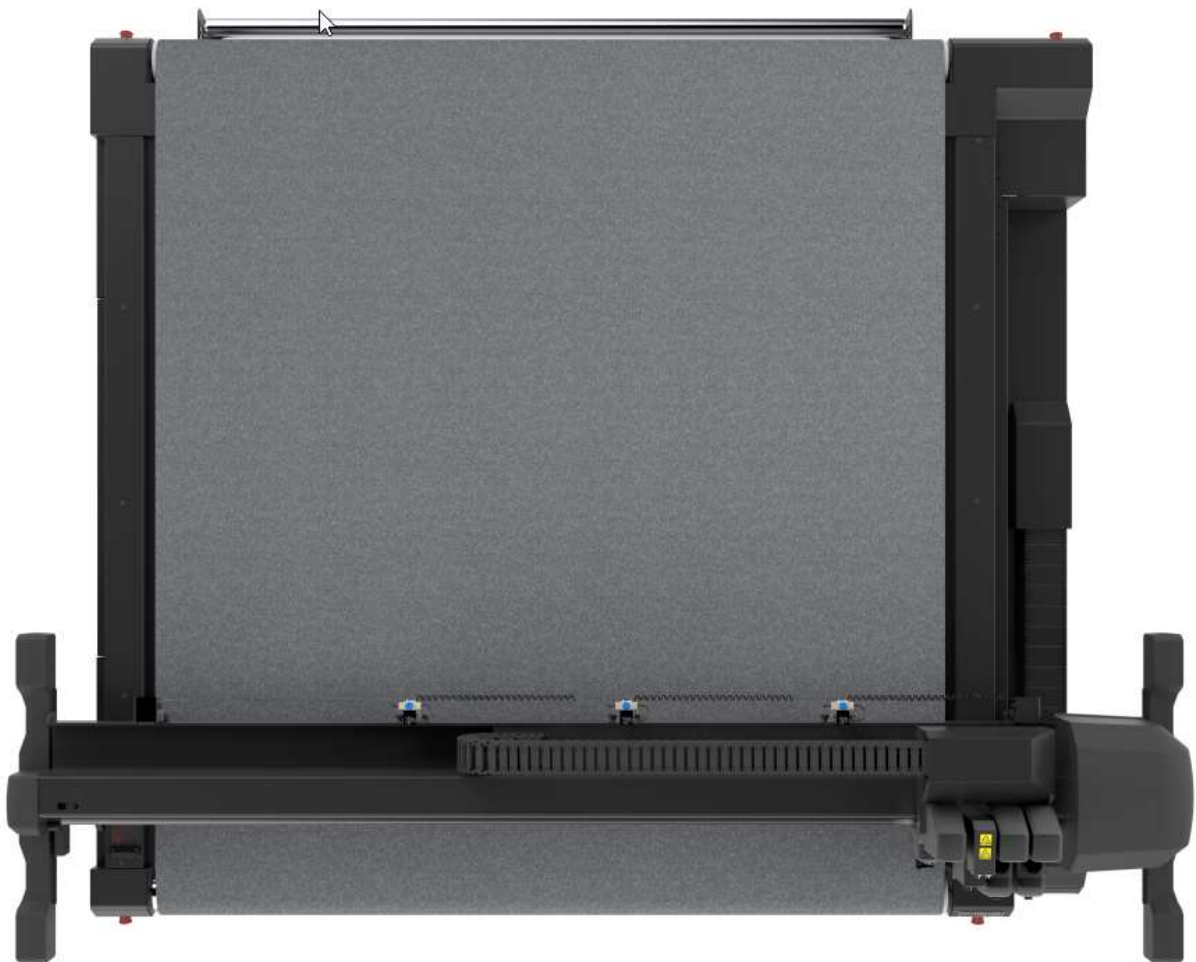


Site Preparation Document F1612

Instructions and Sign-off





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Document history:

Publication date :

05/10/2020

02/04/2021

Release version

Creation document F1612-3X

new layout and safety precautions

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Document Sections

This document is divided into two sections.

- The first section provides the information needed to prepare the physical location for the installation of the F-Series Flatbed Cutter. Also included are transportation and connection specifications.
- The second section contains the signature and information pages. This will give an overview of the installation site, system configuration and workflow at the end user. This information will facilitate the installation.

Section 1: Site Preparation Document



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 out where necessary and return this signed document 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 the 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. In section 2 of this document there is a checklist that must be checked before the arrival of the machine.

Shipping, Arrival and Unpacking



Figure 1 Crate

The machine is delivered in 1 crate

There are several options for unloading and transporting the crate. Use the info below to determine the correct lift capacity of the transportation vehicles.

F1612 (Packed)				
	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Crate	2230	2680	125	900

Forklift:

- Fork length: Min 1800mm (6')
- Lifting capacity of at least 2000 kg (4400 pounds).
- A forklift is necessary to lift the machine from the pallet.
- If the machine needs to be transported inside the facilities without the crate, then the doorways should be at least 265 cm (101") wide. And the route to the installation location should be free of obstacles.

Pallet truck(s) : one of the below configurations is recommended

- 2 Pallet trucks min fork length: 1m
- 1 Pallet truck min fork length: 1.8m

The width of the outside and inside corridor doorways depend on how the crates are moved. Check the crate dimensions table above to know the exact width needed for the doorways/corridors. Take in account a minimum of 10cm extra space.

Points of attention:

- No stairs during unpacking and the installation position
- If the machine needs to be transported inside the facilities without the crate, then the doorways should be at least 265 cm (101") wide. And the route to the installation location should be free of obstacles. Wider widths are needed for turning radius.

Floorplan

Use the floorplan to determine if the installation area and/or positioning is suited for the machine.

- A solid and level concrete surface is recommended, preferably antistatic.
- Wooden frames/floors/constructions are not suitable.
- The height difference over the whole installation area should not be more than 3cm.

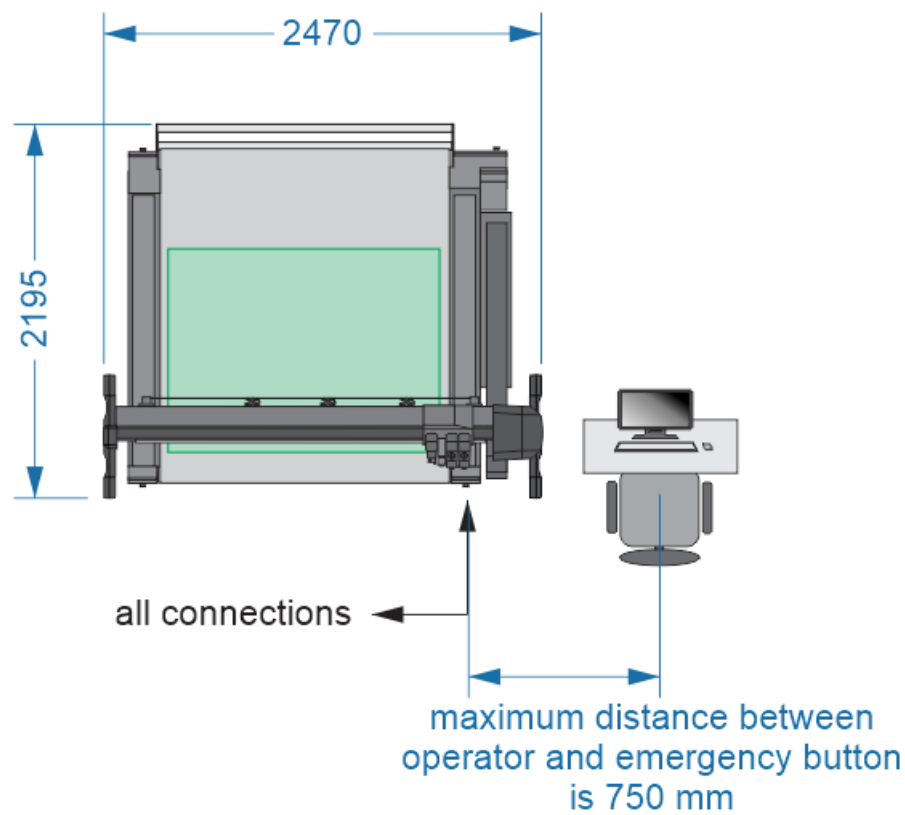


Figure 2 Floorplan Top View

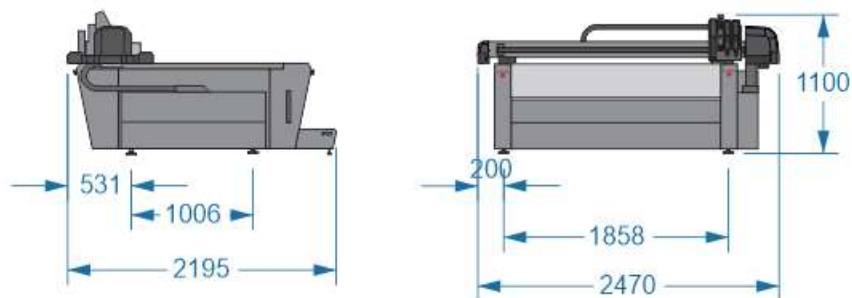


Figure 3 Floorplan right side and front View

F1612 with Optional Router System :

Minimum Ceiling Height

- With gantry: 2500 mm

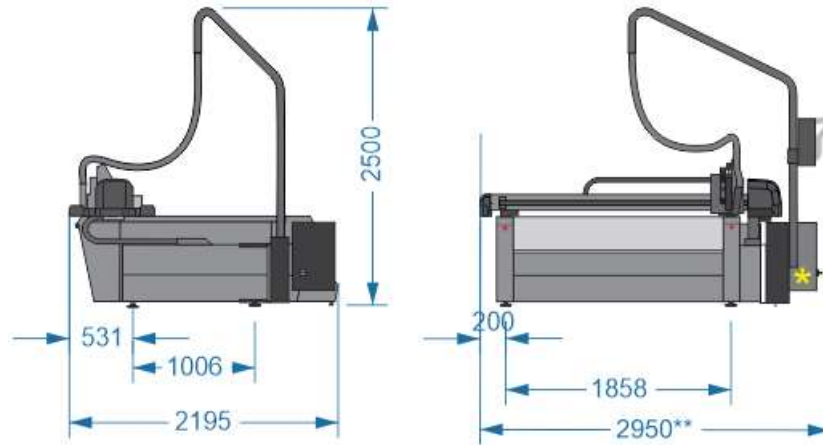


Figure 4 Floorplan Right side view and Front view

*The fire enclosure box is not applicable for the standard Router. This does not influence the width dimensions as the module station defines the width on the right side.

** extra space at the right side is recommend to safely attach and remove the router module to the module station

F1612 with optional conveyor extension:

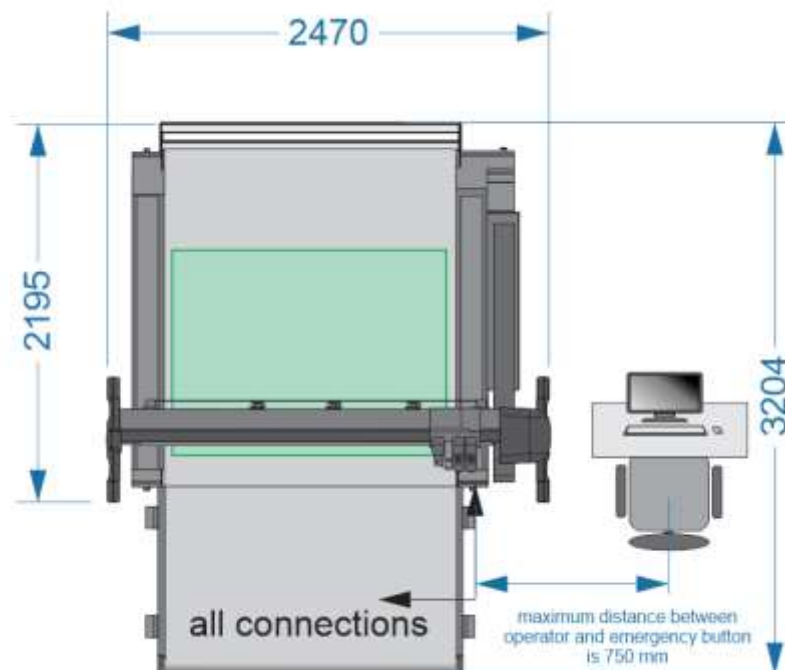


Figure 5 Floorplan Top view with optional conveyor extension

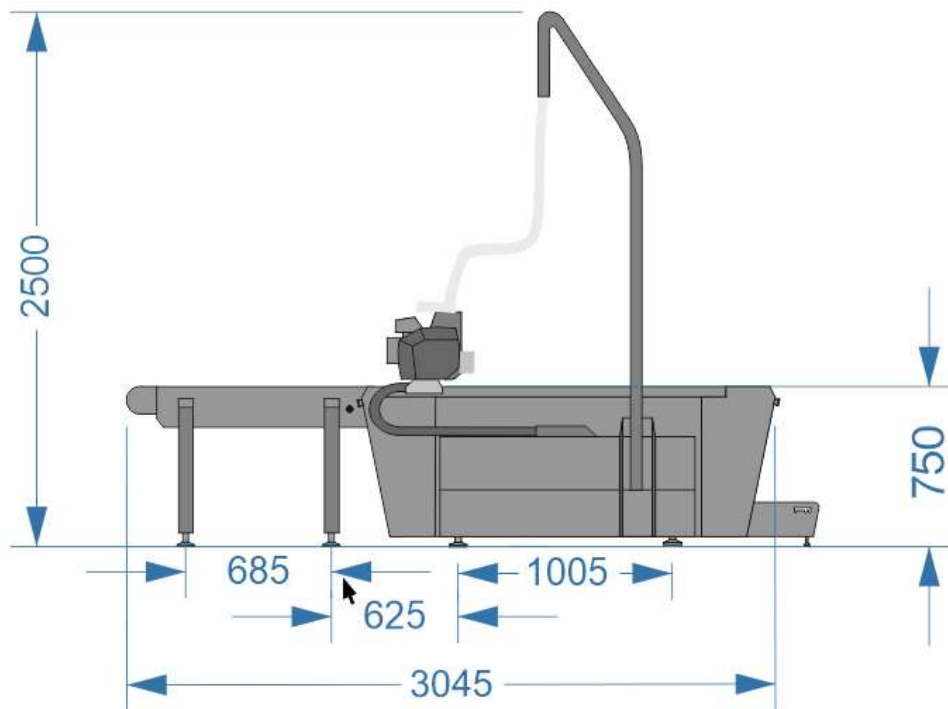


Figure 6 Floorplan Right side with optional conveyor extension

Connections

The flatbed cutter has three connections marked with 'All Connections' on the figure above.

USB Connection

The flatbed cutter is delivered with a 3 meter USB cable and a 0.5m extension USB cable for connection to the PC.

DO NOT USE:

- A USB cable longer than 3.5m
- (Powered) USB Hubs
- Extension cables

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

Electrical connection

The electrical cable and wall socket are **NOT INCLUDED** with the flatbed cutter. This should be provided by the end user.

The wall socket and cable plug need to be IEC60309 standard.
The connection to the mains may also be done with an electric wall box.

Power Requirements (including Summa's standard vacuum set):

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

Power Cable:

- Length: Distance between machine and socket + 2m
- 3 or 4 core + ground (according to grid voltage)
- Overall diameter: between 9 mm (0.36") and 17 mm (0.67")
- **Europe:** The section of each core should be at least 2.5 mm² (3 X 400V + N and 3 X 230V). If the cable is longer then 25m, then the section has to be at least 4 mm².
- **North America:** The diameter of each core should be at least AWG 10 with MTW rating for the North American market (3 x 208V + N).
External overcurrent protection 208Y/120V, 40A max, 10 kA interrupting capacity.



Figure 7 IEC60309 Plug and Socket reference picture



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

Pneumatic connection

The pneumatic tube and connector are **NOT INCLUDED** with the flatbed cutter. This should be provided by the end user.

Pneumatic tube:

- Ø8mm
- Length: Distance between machine and compressor + 2m

Connector:

- 1: Ø8mm connection for pneumatic tube
- 2: Thread for connection to compressor or quick coupler

Compressor:

- Without pneumatic tools/options:
 - 7 bar (100 PSI) @ 20 l/min (0.72 cfm)
- With HF Router option:
 - Particle Class 3
 - Water Class 4
 - Oil Class 3
- With POT:
 - 7 bar (100 PSI) @ 350 l/min (12.4cfm)
 - Class 4 ISO 8573-1 or additional air cleaner/dryer



Figure 8 Pneumatic Connector Reference Picture

Requirements for router option

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

Please check installation instructions of the router for minimum requirement.

Vacuum cleaner for all router options

Currently Summa offers 2 types of vacuum cleaners:

- Metabo (small)
- Hercules (big)



CAUTION: The above mentioned vacuum cleaners Summa offers can only be used in Europe.

Type	3x400V + N , 50Hz	3 x 230V, 50Hz	3x 208V + N ,60 Hz	3x 208V ,50-60 Hz
Metabo	OK	OK	Cannot be used	Cannot be used
Hercules	OK	Extra socket ⁽¹⁾	Cannot be used	Cannot be used
3rd party	Max. 3000W	Max. 2400W or	Max 1500W ⁽²⁾ or	Max 1500W ⁽²⁾ or
		Max. 3000W with: Extra socket ⁽¹⁾	Max 2000W ⁽²⁾ with: Extra socket ⁽¹⁾	Max 2000W ⁽²⁾ with: Extra socket ⁽¹⁾

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

(2) Specifications given for 110V vacuum cleaner.

Specifications for third party vacuum cleaners:

- Air Output (at fan): Min 3.000l/min (106 cfm)
- Vacuum: Min 230 hPa (mbar) (92 Inch of water)
- Hose diameter is 35 – 38mm (exact specifications of connection can be found on the internet under 'screw cuff a72-84V')

Installation tools

Please consult the corresponding F1612-3X installation manual for a complete list of the tools that are needed for the installation.

System requirements

Dedicated PC or laptop with hardware components that are up to date with the today standards.

- **OS:** Windows 10
- **Screen:** Full HD
- **USB:** At least 1 free USB connection and an optional one (if remote has been ordered).



CAUTION: There are also other Windows **versions** available. 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 go 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.

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Section 2: Signature pages

Complete the checklist and extra info.

If all this has been done, sign of the certification page.

Checklist

- The delivery truck can unloaded and the crate can be moved inside
- A suitable forklift is available for lifting cutter from the crate (lifting capacity 2000 kg, fork length min 180 cm). 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 the bottom plate of the crate.
- Additional people are available when needed to unpack (4 for lifting the top of the crate) and set up the cutter (2 people further on).
- Unobstructed path to installation area (steps, stairs, radiators,..)
- The installation area (will be) free. It is recommended mark this area on the floor
- The installation floor meets the requirements

All the necessary connections and the parts to connect them (choose 1 of the below):

- Are available and ready
- Will be prepared by a person with knowledge of the local power requirements and will be available during the installation

3 Phase power supply and type: _____

Compressor specifications: _____

- A dedicated PC is/will be ready for use and installation of the necessary programs to operate the cutter
- The future operator is available during the entire training
- The environment complies with the requirements for operating the machine

Extra Info

Software used:

- Operating system: _____
- Designing: _____
- RIP: _____

Extra info or requests:



Certification

I hereby certify that all site preparation tasks have been completed and the necessary parts/tools and people will be available during the install and training.

When all signature pages are completed, (photo)scan and mail them to installations@summa.com.

Company name: _____

Name: _____

Date: _____

Signature: _____

E Series: Safety precautions - Précautions de sécurité.



Caution

These installation instructions are for use by qualified service personnel only.

Risk of electric shock.

Hazardous voltage present for up to 5 minutes after disconnection of power supply.

To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Attention

Ces consignes d'installation doivent être uniquement employés par le personnel de service qualifié.

Risque de choc électrique.

Tension dangereuse présente jusqu'à 5 minutes après la coupure de l'alimentation.

Pour réduire le risque de choc électrique, ne pas effectuer des réparations autre que ceux contenus dans les instructions d'utilisation à moins que vous soyez qualifié pour le faire.



Caution

Contains Class II laser. Do not stare into the beam.

Complies with CFR Title 21, Chapter I, Subchapter J, Sections 1010.2, 1010.3, 1040.10 and 1040.11 in effect at date of manufacture.

Caution: use of any controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

Attention

Contient un laser de classe II. Ne regardez pas dans le faisceau.

Conforme au titre 21 du CFR, chapitre I, sous-chapitre J, sections 1010.2, 1010.3, 1040.10 et 1040.11 en vigueur à la date de fabrication.

L'emploi de contrôles, ajustements ou mise à l'essai autre que spécifiés peut provoquer une exposition dangereuse à des radiations.



Caution

Sharp edges.

Touching the tools with bare hands may cause injury.

Do not touch.

Attention

Présence d'arêtes vives.

Toucher les outils à mains nues peut provoquer des blessures.

Ne pas toucher.



Caution

Moving parts.

Keep body parts out of the motion path.

Attention

Parties mobiles.

Se tenir à l'écart de la zone de mouvement.



Caution

This equipment is not suitable for use in locations where children are likely to be present.
This equipment is not intended for use by children.

Avoid touching the moving parts and entering the cutting area with the hands, clothing, jewelry or hair.
Unplug this equipment when not used for an extended period of time.

Attention

Cet équipement ne convient pas à une utilisation dans des lieux susceptibles d'accueillir des enfants.
L'équipement n'est pas destiné à être utilisé par des enfants. Cet équipement n'est pas un jouet.
Évitez de toucher les pièces mobiles et de pénétrer dans la zone de découpe avec les mains, les vêtements, les bijoux et les cheveux.

Débrancher l'équipement lorsque celui-ci n'est pas utilisé pendant une période prolongée.



Caution

Hot surface.
Do not touch marked parts.

Attention

Surface chaude.
Ne touchez pas les pièces marquées.



Warning

Hearing protection should be worn in case of prolonged exposure to the noise of the vacuum pumps.
Eye and/or hearing protection must be worn when using certain power tools.

Attention

Une protection auditive doit être portée en cas d'exposition prolongée au bruit des pompes à vide.
Une protection oculaire et/ou auditive doit être portée lors de l'utilisation de certains outils de puissance.

Revised April 2, 2021