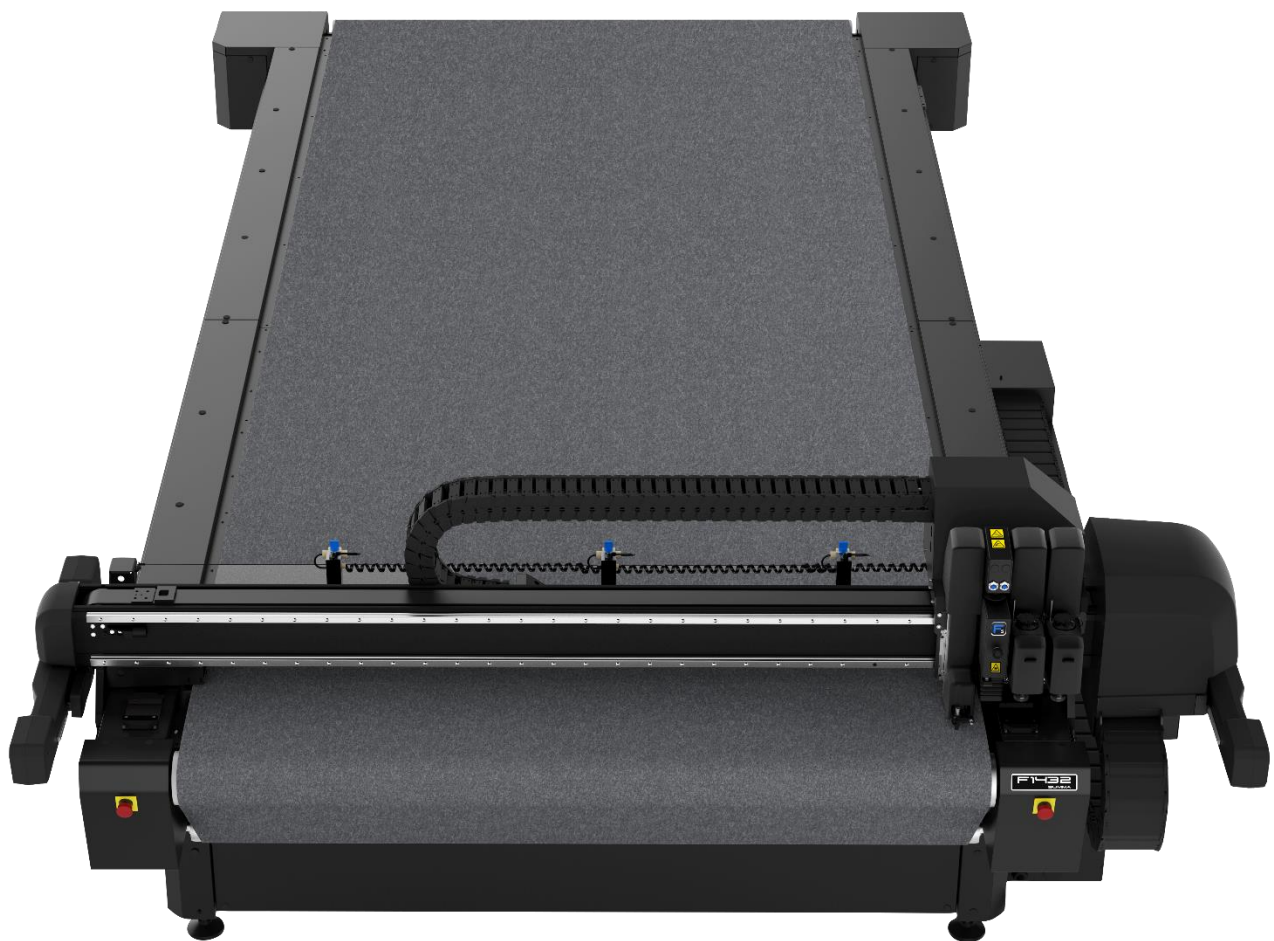


Site Preparation Document F1432

Instructions and Sign-off





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Fixed typo and added shipping note

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Site preparation document

How to use this section

This document is divided into two sections.

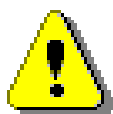
- The first section provides the information needed to prepare the physical location for the installation of the F1432. It is also helpful to help determine the internal transportation of the flatbed cutter from the customers' loading/unloading dock to its final location. It also includes all the specifications 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 need to be filled out and 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 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. At the end of the paragraph there is a checklist that must best filled out before the arrival of the machine.

Shipping, arrival and unpacking requirements



Note: The machine comes in one complete assembly. Make sure to check the requirements below for unpacking, internal transport in the facility at the site and installation of the unit!



The machine is delivered in 1 crate.

- There are several options for unloading. However, a **forklift is mandatory** to lift the machine out of the crate. Use the info below to determine the correct lift capacity of the forklift.

F1432 (Packed)									
Length		Width		Height		Weight		Weight (Tare)	
mm	inch	mm	inch	mm	inch	kg	lbs	kg	lbs
4530	178.3	2225	87.6	1654	65.1	1900	4188.8	TBD	TBD

Forklift:

When using the forklift the crate/machine can only be transported in width.

- Fork length: Min 1200mm – Max 1500mm
- Fork width: Max 170mm
- Adjustable fork width: from 1050mm to 1400mm or more.

Pallet trucks (optional):

When using pallet trucks the crate/machine can only be transported in length.

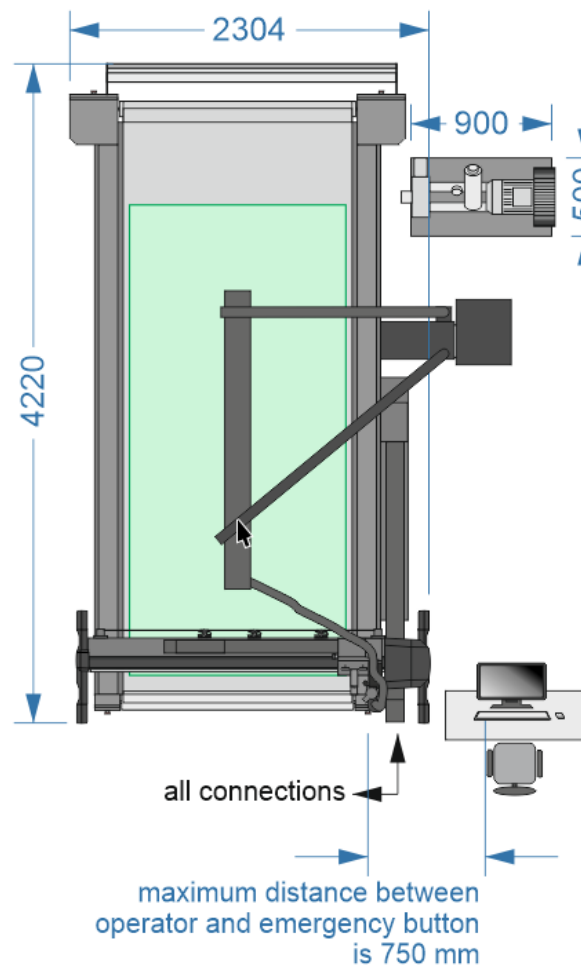
It is mandatory to always use 2 pallet trucks at the same time if the forks are less than 3m.

- Using 2x pallet trucks min. length: 1x 2m and 1x 1m
- Using 1x pallet truck min length: 3m

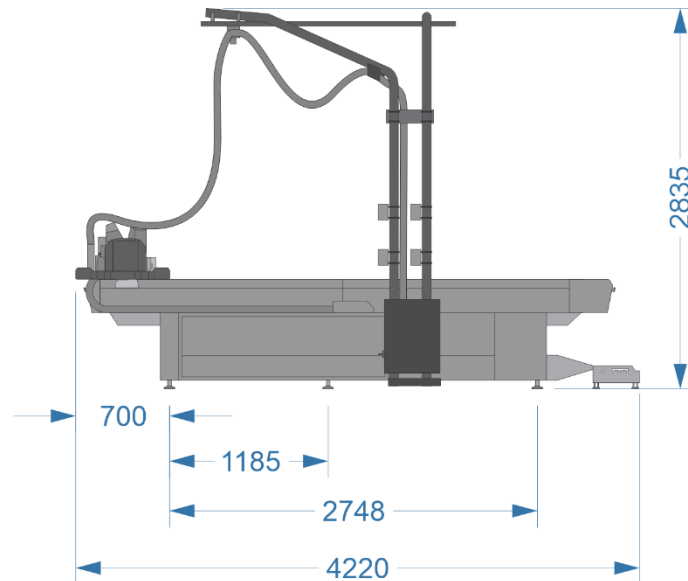
The width of the outside and inside corridor doorways depend on whether the machine is moved in crate or not. Check the crate/machine dimensions to know the exact width needed for the doorways/corridors. Take in account a minimum of 10 cm extra space.

- There shouldn't be stairs or steps between the place where the machine is set and where it needs to be installed eventually
- 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. Wooden frames/constructions are not suitable. The height difference over the whole installation area should be not more than 3cm.
- Allow extra room during installation. About 5 to 6 meter at one side of the floorplan of the F1432
- Weight of the machine is 1900 kg with packaging or XXXX kg without packaging

Floorplan



Minimum height for optional router system



Note: There is alternative way to mount the extraction hose if the height of the ceiling is less than 2835mm. However, the minimum height then has to be 2500mm and there should be possibility to attach a rail to the ceiling. Ceiling should be a sturdy construction to handle the weight of the rail + vacuum hose assembly and the movement of the router extraction tube.

The flatbed cutter has three basic connections:

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

All connections are marked with 'all connections' in the figure above.

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

Installation tools

Please consult the F1432 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



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.

Computer connection

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). The computer should have at least 1 free USB connection and an optional one (if remote has been ordered).

Electrical connection

Recommended power requirements (including Summa's standard vacuum set):

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

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 + ground (according to the available power).

The section of each core should be at least 4 mm² for European market (3 X 400V + N and 3 X 230V). If the cable is longer then 25m, then the section has to be at least 6 mm².

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

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

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

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



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

For machines for use without pneumatic tools a 7 bar (100 PSI) @ 20 l/min (0.72 cfm) compressed air supply is required.

For units with a HF router: Air needs to be free of dirt (particle class3), water (water class4) and oil (oil class 3).

For the POT option a 7 bar (100 PSI) @ 350 l/min (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 10 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 machine and the pneumatic output plus 2 meter (6 feet).

The connection to the tube should be of the type one touch pneumatic fitting for metric tubes diameter 10 mm.

Pictures to help and determine which connectors to provide

Electrical connector



Size and colour of connector may differ, this depends on the 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 the 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 10mm 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 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.

Currently Summa offers 2 types of vacuum cleaners. A smaller one brand Metabo and a larger one brand Hercules. The Hercules vacuum cleaner replaces the earlier available 3 Flow vacuum cleaner.



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
3Flow	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.

If the vacuum cleaner is not supplied by Summa, then the specifications for the vacuum cleaner are:

- Air output (at fan): minimum 3.000 l/min (106 cfm)
- Vacuum: minimum 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')



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Signature pages

This document consists out of two parts.

Complete the checklist and extra info.

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

Check list

- The delivery truck can unload the crate and the crate can be moved inside.
- Mandatory** forklift with correct lift capacity will be available (info under shipping requirements)
- 3 people are required during setup of the chassis of the machine (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 main power 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 easily 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.
- The future operator is available during installation and the entire time allocated for training.

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, scan and mail them to installations@summa.com.

Company name: _____

Name: _____

Date: _____

Signature: _____

Revised May 3, 2021