



# Pre-installation Guide

## Flex-i-Pro 360/470/520/520 XP

▶ **IMPORTANT**

Please follow the instructions in this guide when preparing the installation site prior to arrival and installation of the equipment.

GLUNZ & JENSEN 

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# About this manual

This manual applies to the Flexo Processor **Flex-i-Pro 360/470/520/520 XP**.

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# Table of Contents

<b>About this manual</b> .....	<b>3</b>
<b>Table of Contents</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
Reservations .....	5
Introduction .....	5
Notes, Cautions and Warnings! .....	5
<b>Transportation</b> .....	<b>7</b>
When the equipment arrives .....	7
Storing of the equipment prior to the installation .....	7
The crate .....	7
Crate Dimensions .....	7
Flex-i-Pro .....	7
Weight .....	8
Checking the crate for damage .....	8
Handling the crate .....	8
Lifting the crate .....	9
Required width of passage and doorways .....	10
<b>Installation requirements</b> .....	<b>11</b>
Heating and ventilation .....	11
Installation kit .....	11
Floor stability .....	11
Space requirements .....	12
Free space around the equipment .....	12
Dimensions and connections .....	13
Connection requirements .....	17
Compressed air .....	17
Exhaust connection .....	17
Solvent connection .....	17
Electrical requirements .....	18
Main power outlet .....	18
Power cable .....	18
Electrical specifications .....	19
Power supply requirements .....	19
Power consumption .....	19
Flex-i-Pro .....	19
<b>Checklist</b> .....	<b>21</b>

# Introduction

## Reservations

- This manual was written and illustrated using the best possible information available at the time of publication.
- Any differences between this manual and the equipment reflect improvements introduced after the publication of the manual.
- Changes, technical inaccuracies and typographic errors will be corrected in subsequent editions.
- As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

## Introduction

The instructions in this Pre-installation Guide help the customer and the Service Technician to prepare the installation site for the arrival and installation of the equipment.

## Notes, Cautions and Warnings!

Notes, cautions, and warnings in this manual are used and categorized as described below:

Symbol	Meaning	Explanation
	<b>NOTE</b>	The operator should observe and/or act according to the information in order to obtain the best possible function of the equipment.
	<b>CAUTION</b>	The operator must observe and/or act according to the information in order to avoid any mechanical or electrical damage to the equipment.
	<b>WARNING</b>	The operator must observe and/or act according to the information in order to avoid any personal injury.



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# Transportation

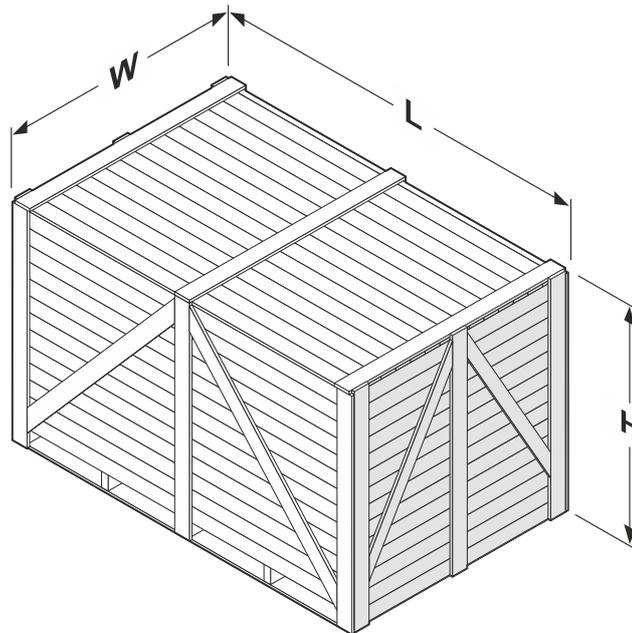
## When the equipment arrives

### Storing of the equipment prior to the installation

The equipment will usually be delivered some time before the arrival of the service technician. Provide for an appropriate place indoor to store the crated equipment until the service technician arrives.

## The crate

### Crate Dimensions



#### Flex-i-Pro

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
<b>Length (L)</b>	3000 mm (118.1")	3000 mm (118.1")	3000 mm (118.1")	4350 mm (171.3")
<b>Width (W)</b>	1900 mm (74.8")	2200 mm (86.6")	2300 mm (90.6")	2300 mm (90.6")
<b>Height (H)</b>	1800 mm (70.9")	1800 mm (70.9")	1800 mm (70.9")	1800 mm (70.9")

## Weight

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
<b>With crate</b>	1550 kg (3417 lbs)	1620 kg (3571 lbs)	1730 kg (3814 lbs)	2350 kg (5181 lbs)
<b>Without crate</b>	1250 kg (2756 lbs)	1400 kg (3086 lbs)	1550 kg (3417 lbs)	1800 kg (3968 lbs)

## Checking the crate for damage

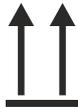
Check if the crate is damaged on delivery at the customer's address. Make notes of any damages, before opening the crate. Provide a detailed description and take a photograph of the damage.

Report any damage of the crate to the shipping company and notify the insurance agent, if appropriate, before the mishandled package is opened.

Check the Tilt watch and the Shock watch label that the red mark has not appeared and compare their serial numbers with those on the box label whether they match.

## Handling the crate

The icons on the crate indicate how to handle the crate during transport and storage:



Ensure that the side indicated by the arrows is always up.



Handle the crate with care



Never expose the crate to water, or place it in a high-humidity area.



Do not stack the crates.



Do not tilt the crate.

## Lifting the crate

The equipment is supplied in a wooden crate on a pallet.

A forklift truck is required for lifting the crate on arrival and for lifting the equipment off the pallet.

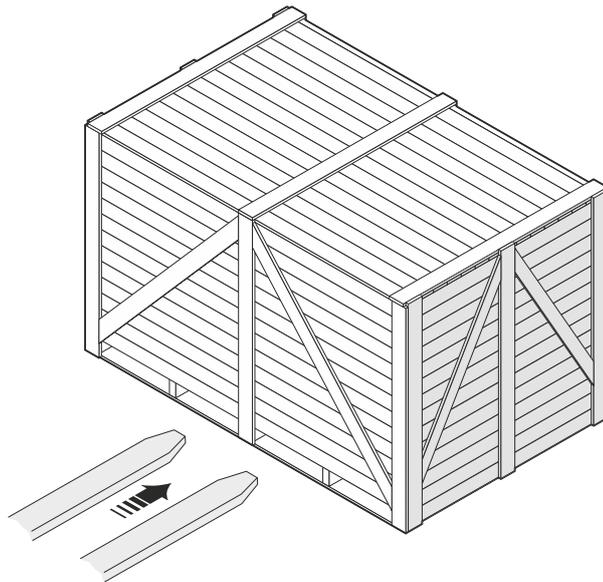


**WARNING:** The equipment is very heavy equipment.

It is only possible to lift the equipment off the pallet using a forklift truck or a pallet mover.



**CAUTION:** Make sure to provide a forklift designed and adequate for lifting a crate of the size and weight as specified in this manual.



## Required width of passage and doorways

Depending on the width of the passage- and doorways through which the equipment has to be transported to the installation site, the service technician may have to perform the actions described in the table below:

If width of the doorway is ...	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP	Then ...
<b>More than</b>	2100 mm (82.7")	2400 mm (94.5")	2500 mm (98.4")	2500 mm (98.4")	The crated equipment can be transported immediately to the installation site.   <b>CAUTION:</b> May require machine moving skates suitable for transport of very heavy equipment.
<b>Less than but more than</b>	2100 mm (82.7")  1950 mm (76.8")	2400 mm (94.5")  2250 mm (88.6")	2500 mm (98.4")  2350 mm (92.5")	2500 mm (98.4")  2350 mm (92.5")	The Service Technician has to unpack the equipment.   <b>CAUTION:</b> May require machine moving skates suitable for transport of very heavy equipment.

# Installation requirements



**WARNING:** The equipment must be installed in restricted access locations only.



**NOTE:** Check the delivery route to the installation location for necessary clearance and remove all obstructions.

## Heating and ventilation

Provide a heat and ventilation system capable of maintaining room temperature between 17°C (63°F) and 28°C (82°F) and a relative humidity (non condensing) of min. 20% and max. 80%.

For heat emission see "Power consumption" on page 19.

## Installation kit

Installation kit is included with the equipment. It comprise the parts necessary to make the installation.

## Floor stability



**WARNING:** Note the very heavy weight of the equipment!

Please refer to weight and dimensions of the equipment when calculating footprint and load for preparation of the installation site.

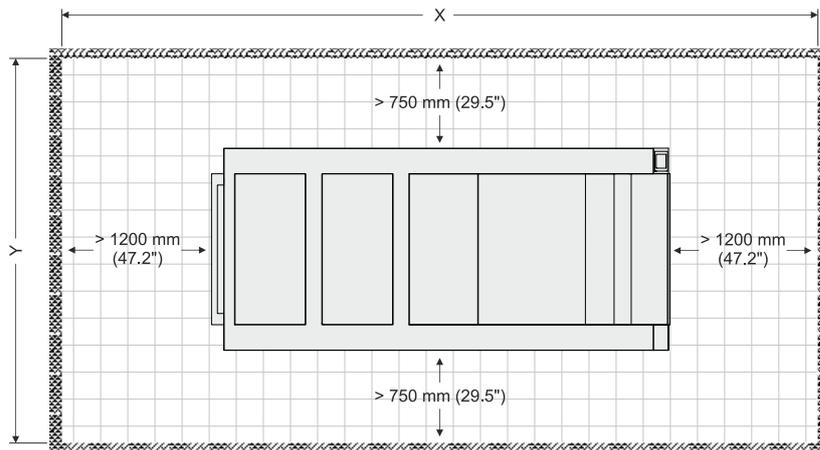
The floor should have a variation in height of no more than 6 mm per meter (1/4" over 40" length). If in doubt about the floor loading, please consult a structural engineer.

## Space requirements

### Free space around the equipment

Decide for a proper installation site for the equipment and make sure that the free space around the equipment makes servicing possible.

The recommended minimum free space around the equipment is specified in the next illustration.



The free space before and after the machine must always be more than 1200 mm (47.2").

The free space on the sides of the machine must always be more than 750 mm (29.5").

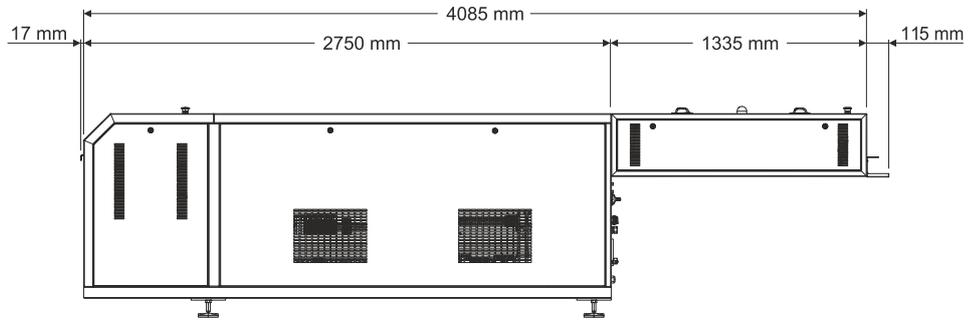
So that the room dimensions must be at least as is listed in the table below:

Processor size	Room X dimension	Room Y dimension
Flex-i-Pro 360	6485 mm (255.3")	3247 mm (127.8")
Flex-i-Pro 470	6953 mm (273.7")	3532 mm (139.1")
Flex-i-Pro 520	7270 mm (286.2")	3648 mm (143.6")
Flex-i-Pro 520 XP	8682 mm (339.6")	3648 mm (143.6")

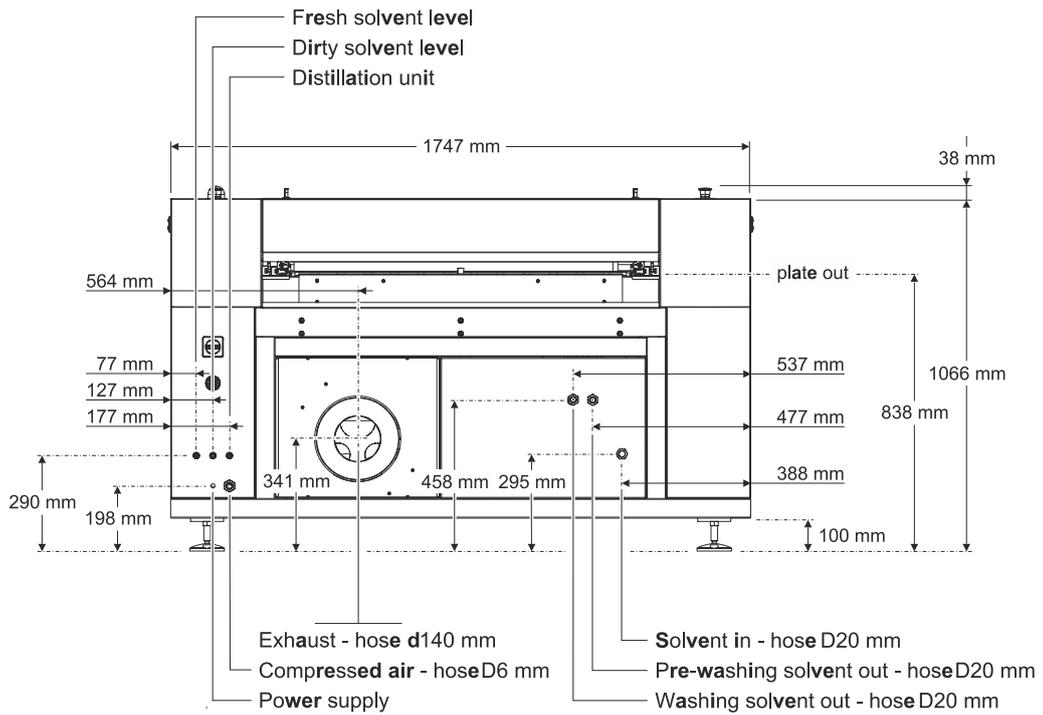
## Dimensions and connections

### Flex-i-Pro 360

#### Side view

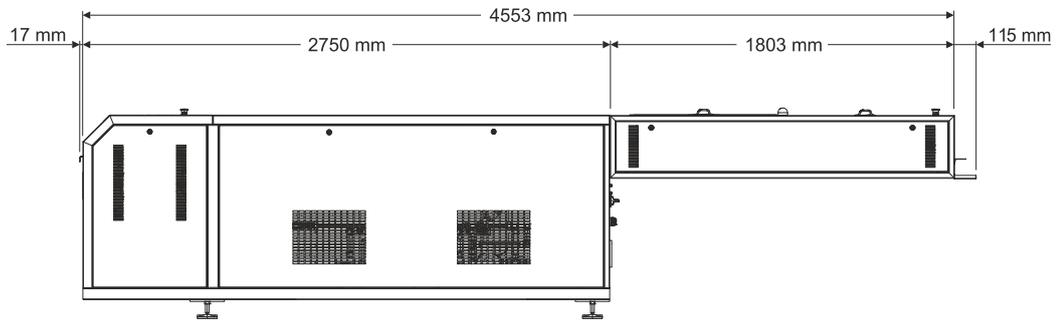


#### Rear view

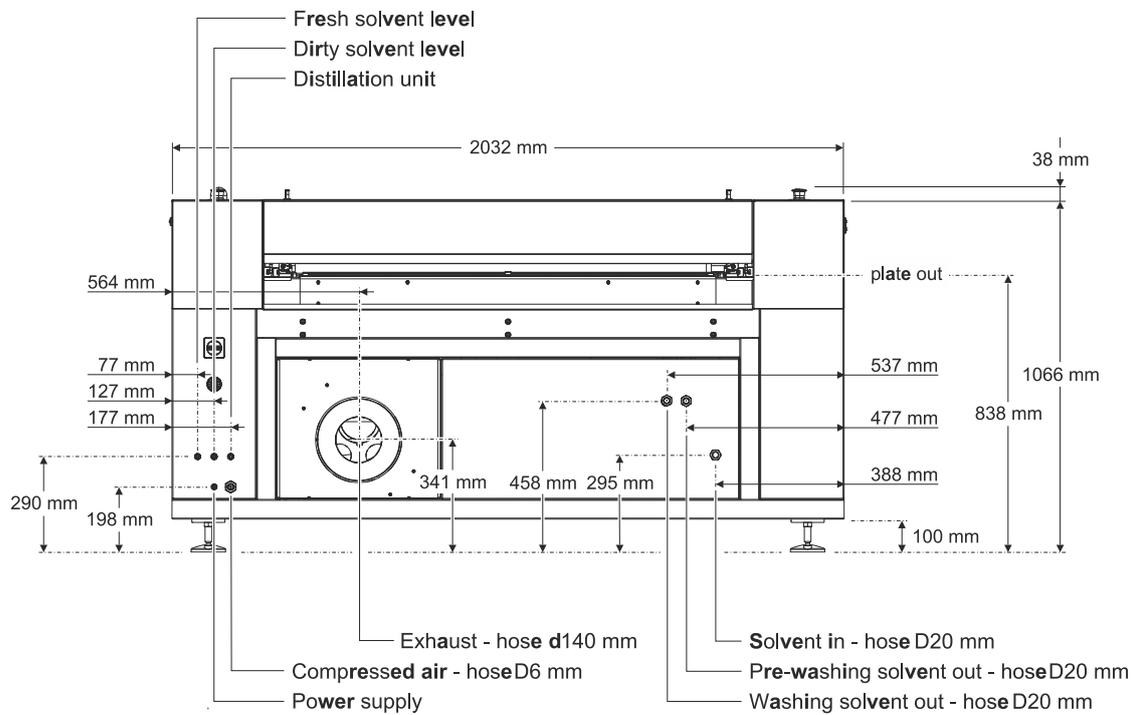


## Flex-i-Pro 470

### Side view

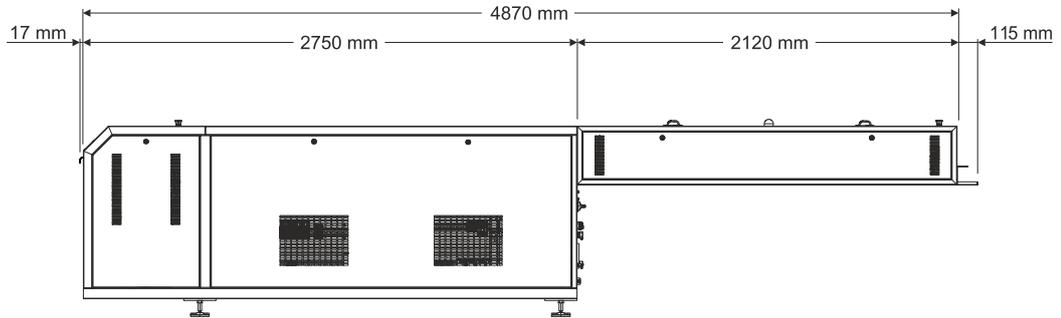


### Rear view

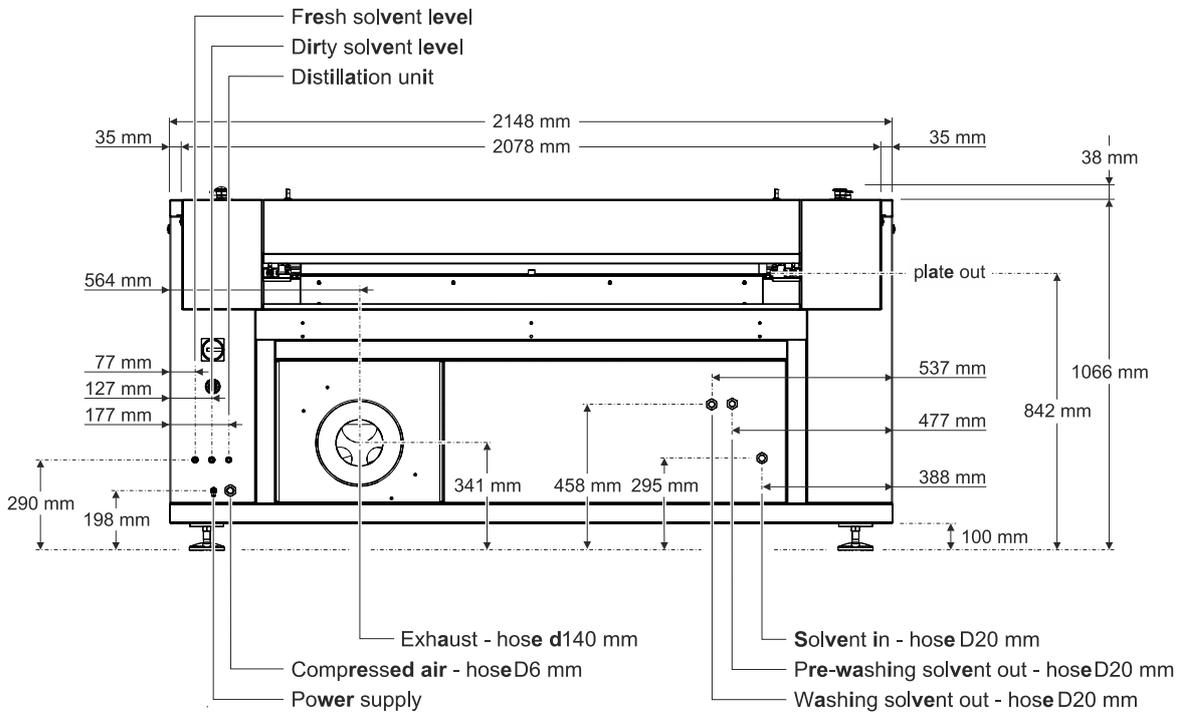


### Flex-i-Pro 520

#### Side view

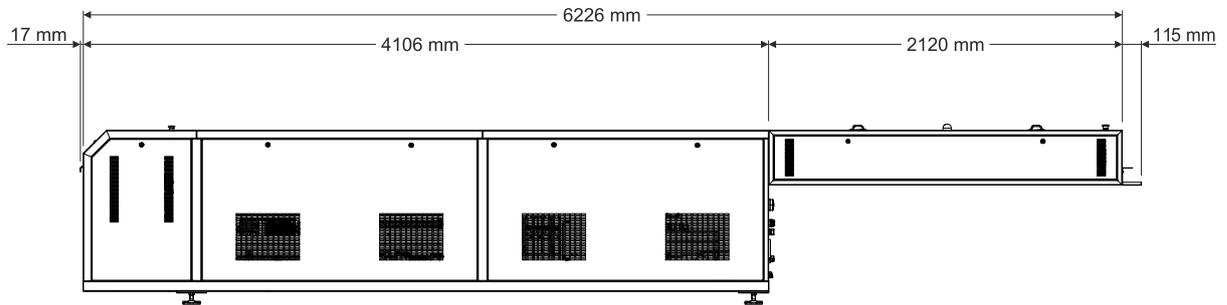


#### Rear view

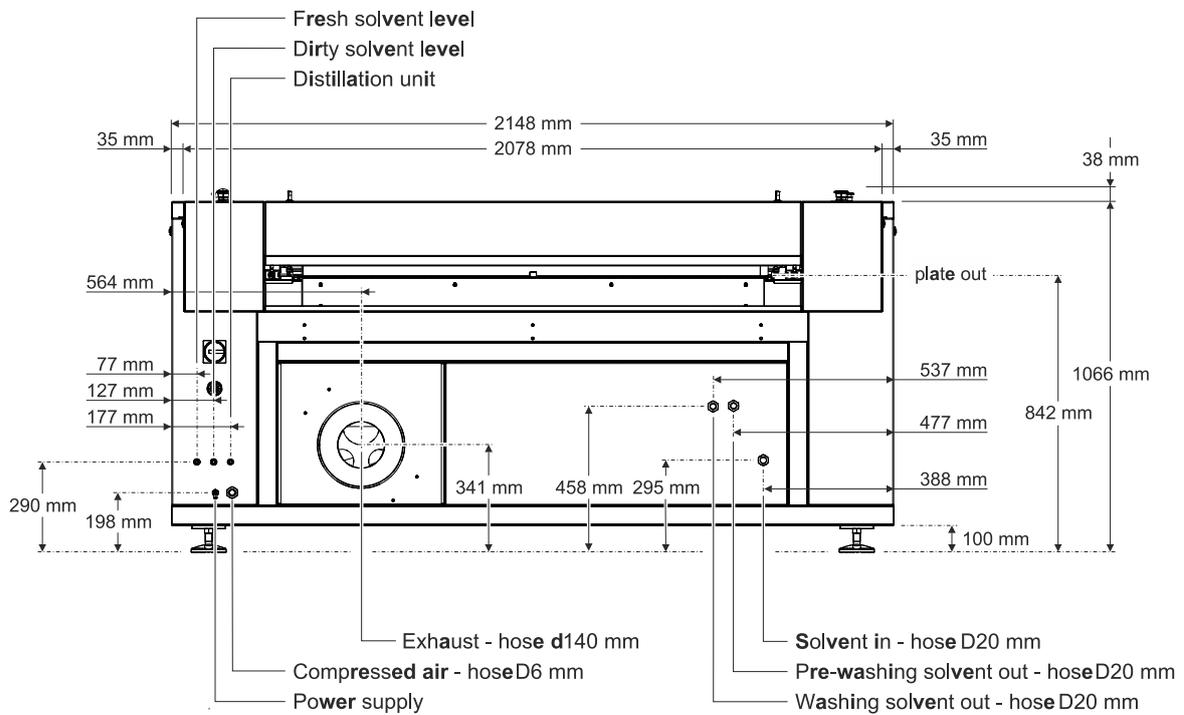


## Flex-i-Pro 520 XP

### Side view



### Rear view



## Connection requirements

### Compressed air

Description	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
Min. pressure	6 bar (87 psi)			
Max. pressure	10 bar (145 psi)			
Volume	NA	NA	NA	NA
Hose size	D6 mm	D6 mm	D6 mm	D6 mm

### Exhaust connection

Processor exhaust must be connected to the appropriate location (directly to the outside or to the building exhaust installation).

Make sure that the airflow is correct and minimum exhaust capacity is according to the Exhaust specification table.

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
Processor, min.	600 m <sup>3</sup> /h (353 ft <sup>3</sup> /min)	600 m <sup>3</sup> /h (353 ft <sup>3</sup> /min)	600 m <sup>3</sup> /h (353 ft <sup>3</sup> /min)	600 m <sup>3</sup> /h (353 ft <sup>3</sup> /min)

### Solvent connection

Provide a solvent connection for a d16/D20 mm diameter hose, which is located no more than 5 meters from machine connections.

If the solvent barrels are more than 5 meters from the processor and the piping is lifted higher than the solvent tanks, it is recommended to mount a non-return valve at the barrels to prevent backlash of solvent or air in the hoses during process.

In case of need to turn off the solvent supply to the processor, it is recommended to install hand valves in the end of the solvent installation.



**CAUTION:** Never lead solvent into a drain, as most solvents are strong pollutants. It is also illegal to empty these types of chemicals into the public sewer system.

Under all circumstances local regulations applying to the treatment of chemical waste must be followed strictly.

## Electrical requirements

 **WARNING:** Electrical installation must conform to local regulations and guidelines.

### Main power outlet

Provide an mains power-outlet with an electrical plug lockout close to the installation site. The table showing "Power supply requirements" on the facing page indicates the applicable power supply types.

### Power cable

 **NOTE:** The cable for the main power connection is not included with the equipment. Please refer to the recommended cable types described in "Power supply requirements" on the facing page.

 **WARNING:** The equipment is Class 1 equipment. Therefore, the equipment must be connected to earth to avoid electrical shocks.

Please be aware of double pole/neutral fusing.

 **CAUTION:**

The conductors in the power supply cable should be of copper.

Provide for additional cable protection, e.g. cable covers, if cable is exposed to heavier transport such as fork-lift trucks etc.

## Electrical specifications

### Power supply requirements



**CAUTION:** The requirements below are specifications for preparing the installation protection. The fuses/circuit breakers must be prepared according to local regulations, and with adequate capacity as specified here. The circuit breakers must be suitable for inventor operation.



**NOTE:** Specifications on the equipment's name plate is the actual input current and will thus not be identical to below mentioned.

	Supply *	Fuses and cables types			
		Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
<b>EUR</b>	3W + N + PE, 400 VAC, 50/60 Hz	Fused by 3 × 13 Amps Cable type: Min. 5 × 6 mm <sup>2</sup> , type H07 RNF	Fused by 3 × 13 Amps Cable type: Min. 5 × 6 mm <sup>2</sup> , type H07 RNF	Fused by 3 × 13 Amps Cable type: Min. 5 × 6 mm <sup>2</sup> , type H07 RNF	Fused by 3 × 16 Amps Cable type: Min. 5 × 6 mm <sup>2</sup> , type H07 RNF
<b>US</b>	3W + PE, 230 VAC, 50/60 Hz	Fused by 3 × 24 Amps Cable type: Min. 4 × 10 AWG, type SJO	Fused by 3 × 24 Amps Cable type: Min. 4 × 10 AWG, type SJO	Fused by 3 × 24 Amps Cable type: Min. 4 × 10 AWG, type SJO	Fused by 3 × 28 Amps Cable type: Min. 4 × 10 AWG, type SJO

\*) Voltage tolerance ± 10%



**NOTE:** The power cable(s) must be in accordance with local regulations.



**WARNING:** Please be aware of double pole/neutral fusing.



**CAUTION:** The fuses must have a breaking capacity of min. 100 kA.



**CAUTION:** If a circuit breaker of type ELCB, RCCB, or GFCI is used where leakage to ground is detected, the trip sensitivity must be 300 mA.

### Power consumption

#### Flex-i-Pro

	Flex-i-Pro 360	Flex-i-Pro 470	Flex-i-Pro 520	Flex-i-Pro 520 XP
<b>In operate, per phase (±10%), max.</b>	8500 W (29000 BTU)	8500 W (29000 BTU)	8500 W (29000 BTU)	10000 W (34200 BTU)



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# Checklist

Please check the following conditions in order to ensure a trouble-free installation of the equipment:

- |    |   |            |           |
|----|---|------------|-----------|
| 1. | <b>Delivery of the crate and transport to the installation site</b>   | <b>YES</b> | <b>NO</b> |
|    | A. Is there a place indoor where the crated equipment can be stored temporarily?  | o          | o         |
|    | B. Is there a hand-powered pallet mover, a fork-lift truck or any other lifting device available? Please refer to "Lifting the crate" on page 1 for required lifting equipment. | o          | o         |
|    | C. Can the crate be transported directly to the installation site? See "Required width of passage and doorways" on page 10.   | o          | o         |
|    | D. Is it necessary to unpack the equipment before it is transported to the installation site? See "Required width of passage and doorways" on page 10.                          | o          | o         |
|    | E. Are there other factors (stairs, elevators, corners, obstacles, etc.) which should be taken into account when transporting the equipment?<br>If YES, please describe:        | o          | o         |
- 

- |    |   |            |           |
|----|---|------------|-----------|
| 2. | <b>Power supply</b>   | <b>YES</b> | <b>NO</b> |
|    | A. Make a note of the present supply specifications:  |            |           |
|    | Number of phases: _____ Neutral wire? o   |            |           |
|    | Voltage (V): _____ Earth wire? o  |            |           |
|    | Fused by (Amps): _____  |            |           |
|    | Frequency (Hz): _____   |            |           |
|    | B. Has a connection box been provided to connect the equipment to the mains?  | o          | o         |
|    | C. Has the customer been asked to provide for all supplies (cables, fuses, etc.) necessary to connect the equipment to the mains? | o          | o         |
|    | D. Is there a house electrician available?  | o          | o         |
|    | E. Are there any known problems in the building where the equipment will be installed?<br>If YES, please describe which:          | o          | o         |
-

3.	<b>Connections</b>	<b>YES</b>	<b>NO</b>
A.	Is air condition/ventilation available according to the requirements as described in chapter "Exhaust connection" on page 17.?	o	o
B.	Is compressed air available according to the requirements as described in chapter "Compressed air" on page 17.?	o	o
C.	Is solvent connection available according to the requirements as described in chapter "Solvent connection" on page 17.	o	o

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4.	<b>Web registration</b>	<b>YES</b>	<b>NO</b>
A.	The login and password is necessary to download an available manuals for the equipment.		
	- Click on Login and then Create new account.		
	- Fill up the required fields and checkboxes.	o	o
	- Then click on CREATE NEW ACCOUNT.		
	- After while the login information will be delivered to the specified e-mail.		

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