

Product instruction manual  
OmniFlow 520

# MATRIX<sup>®</sup>

## OMNI-FLOW

The OmniFlow has been designed to be user friendly, however we strongly recommend you take a few minutes to read through this manual to ensure correct operation.

Keep this manual safe for future reference.

# Omni-Flow 520

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# 1 Introduction

## 1.1 Preface

This manual only applies to Omni-Flow 520 system. Before using the system, please read the instruction manual carefully first. Please keep the manual in a safe accessible location so that consulting it at any time in the future. Any questions while operating please contact our technicians.

## 1.2 Specifications

MOD		Omni-Flow 520
Paper specifications	Max (Width*Length)	520mm*650mm
	Min (Width*Length)	125×210mm
	Weight/Thickness	158g-350g/0.15-0.35mm
	Flatness	Less than 5mm
	Type	Coated
Speed	Infeed speed	Adjustable
	A4 Max speed	12000 sheets per hour
Infeed	Type	Middle
	Height	500mm
Double feed detection	Ultrasonic sensor	Optional
Skew adjustment	Conveyor	Optional
Paper collecting way		Paper tray
Power supply	Voltage	AC220V-240V,50/60Hz
	Power	500W

## 2 Safety

### 2.1 Environment

**Temperature:** 10°C to 35°C

**Humidity:** 30% to 70%

**Altitude:** Below elevation 1000m

Ensure there are no corrosiveness gas, flammable gas, oil mist and so on in room.

### 2.2 Do's and Don'ts



**Do-**Read this manual and fully understand before the operation.



**Do-**Check the *plug* and *system voltage and frequency* to your main supply, and that the socket has a correct working earth lead for this single insulated system.



**Do** make sure all *safety covers* are in place. The top covers have an interlock switch which will disable the unit if removed.



**Do** contact the local maintenance center before you are about to move the system.



**Do** disconnect the power before cleaning the inner side.



**Do** unplug the cord if not using the system for a long while.



**Don't** install the system on an unstable ground.



**Don't** operate with wet hands, especially plugging or unplugging the cord



**Don't** operate with long, loose hair, loose fitting clothes or put your fingers into the creasing unit nip, whilst in operation.



**Don't** place any receptacles with any liquid on any surface of system.



**Don't** put other pieces, especially tiny pieces on loading table.



**Don't** alter or uninstall the system, unless authorized by a Vivid Laminating Technologies engineer.



**Don't** touch any running parts while running.



**Don't** shut down the system while running.



**Don't** put heavy matter on system or shock it.



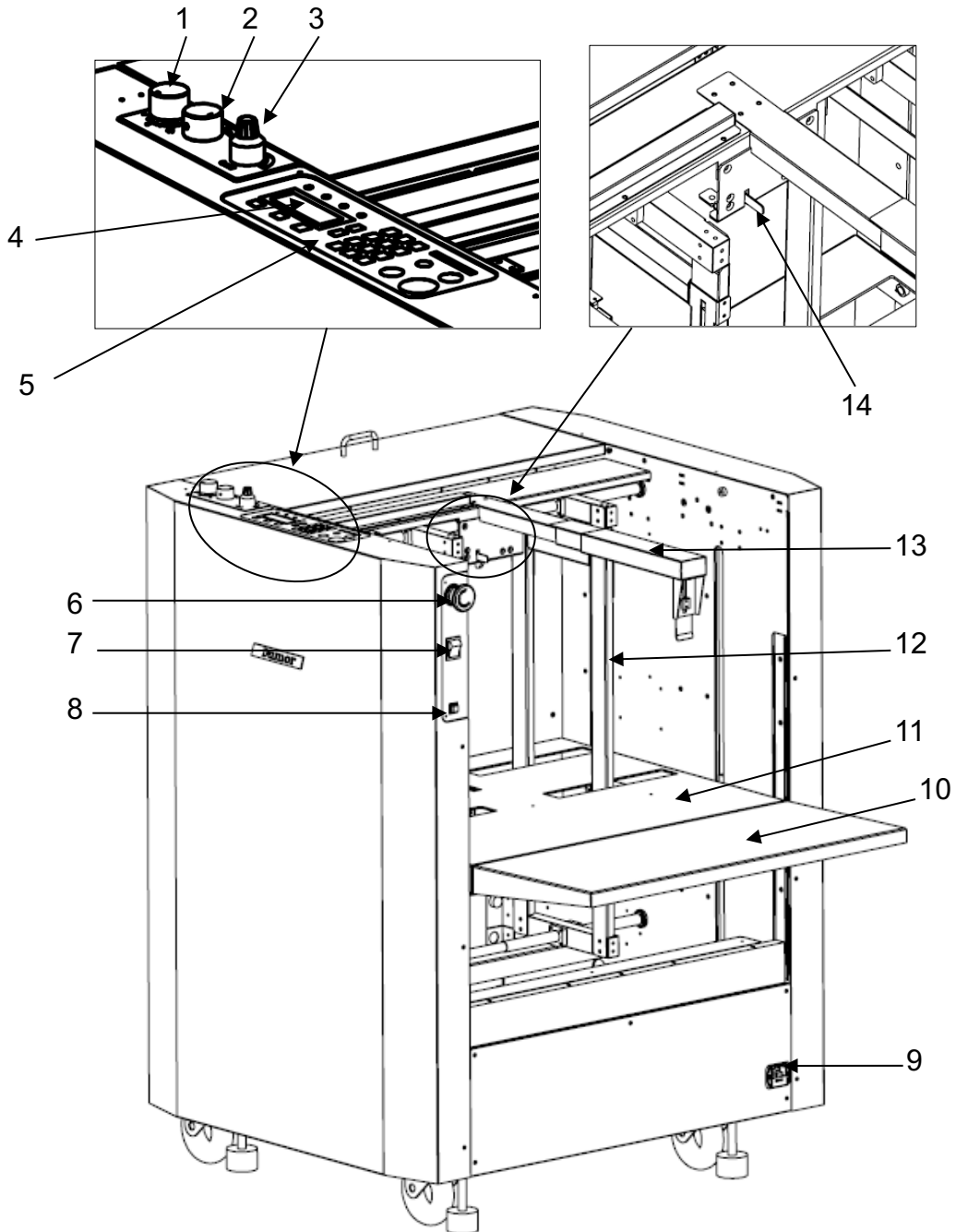
**Don't** place any metal or flammable item in the system, or it may cause fire or electronic shock. If it happens, first shut down the power, disconnect the cord, and then contact the Vivid technician.



If system shows signs of overheating, smoking or giving off a burning odor, shut down at once, disconnecting the cord, and contact the maintenance staff.

### 3 Main parts

#### 3.1 Overview



## Omni-Flow 520

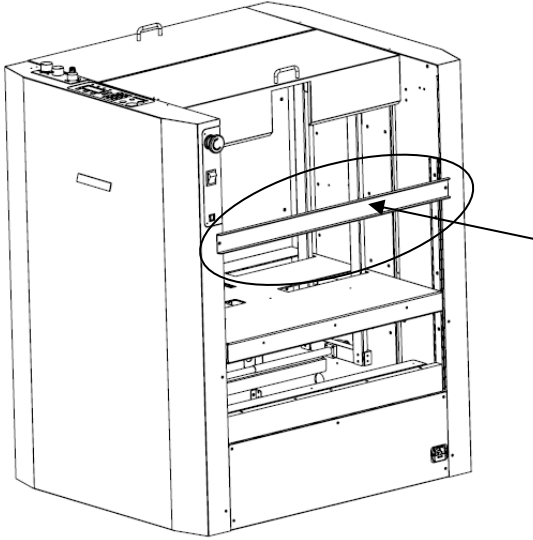
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No.	Name	Description
1	Paper separator adjusting dial	Turn the dial clockwise when feed table gets stuck or feeding thicker paper. Turn the dial anticlockwise when double feeding.
2	Blowing adjusting dial	Turn the dial clockwise to weaken the blowing when feeding thinner paper. Turn the dial anticlockwise to strengthen the blowing when paper is not separating.
3	Speed adjusting dial	Turn the dial clockwise to increase the speed while turn the speed dial anticlockwise to slow down.
4	LCD screen	Display
5	Key panel	Input data or orders.
6	Emergency switch	Cut off the power in emergency.
7	Power switch	Turn on or off.
8	Reset button	1. We can press the pause button and the reset button to reset free when feeding table get stuck on the top and shows elevator error; 2. Press the start button and the reset button to reset when feeding table gets stuck on the bottom and gives elevator error.
9	Power socket	(AC220V-240V,50/60Hz)
10	Feeding table extension board	Can be used for longer paper.
11	Feeding table	Place the paper.
12	Feeding side guides	Hold the paper.
13	Back stop guide	Hold the paper and prevent the paper from blowing back way.
14	Paper feeding height adjusting shaft	Adjust the distance between the paper and suction belt.

## 4 Installation

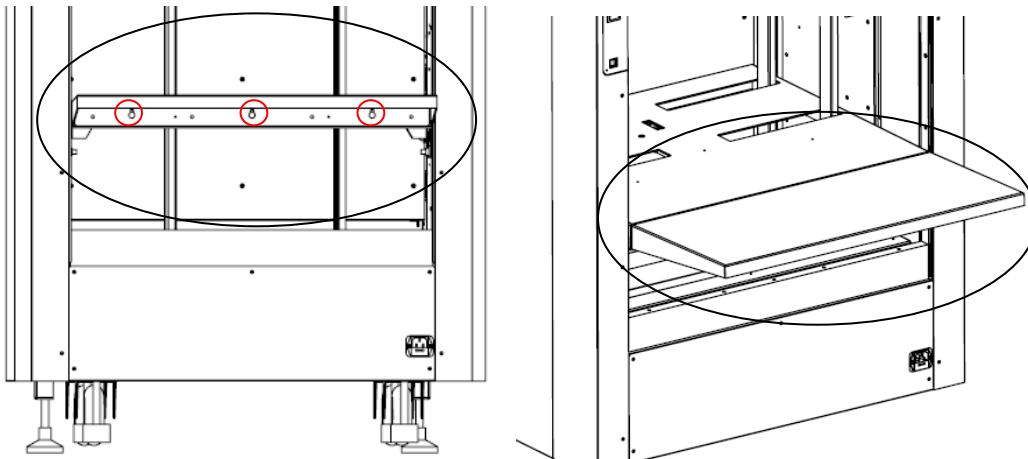
### 4.1 Remove the fixed bar

Please remove the fixed bar after unboxing the system. Shown in the following picture.



### 4.2 Feeding table extension board installation

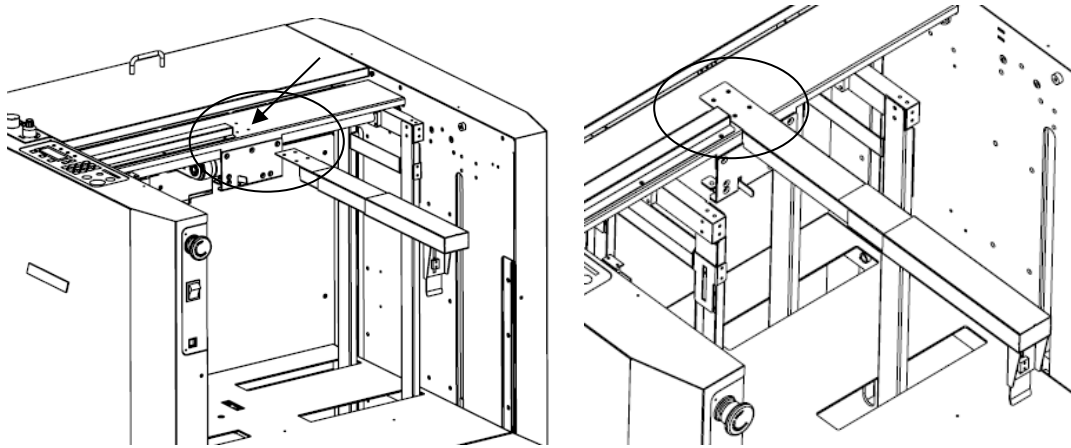
In the following pictures, we can see there are 3 screws mounting on the feeding table. They are used to lock the feeding table extension board.





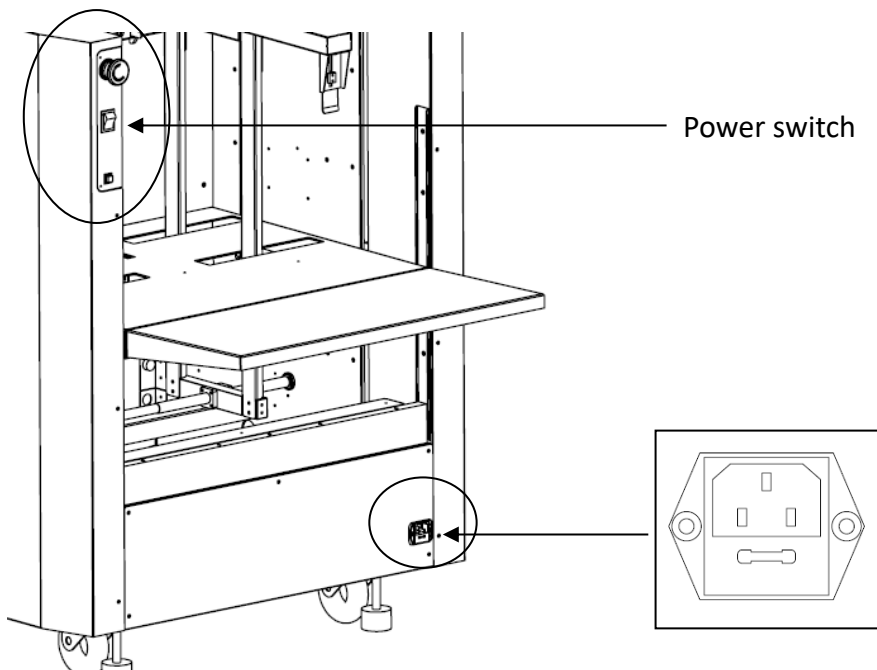
### 4.3 Back stop guide installation

Find the part in the following pictures and then fix the parts by the 4 screws.

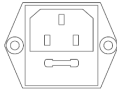

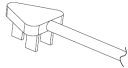



### 4.4 Power socket and switch

The power socket and switch are shown in the following pictures.

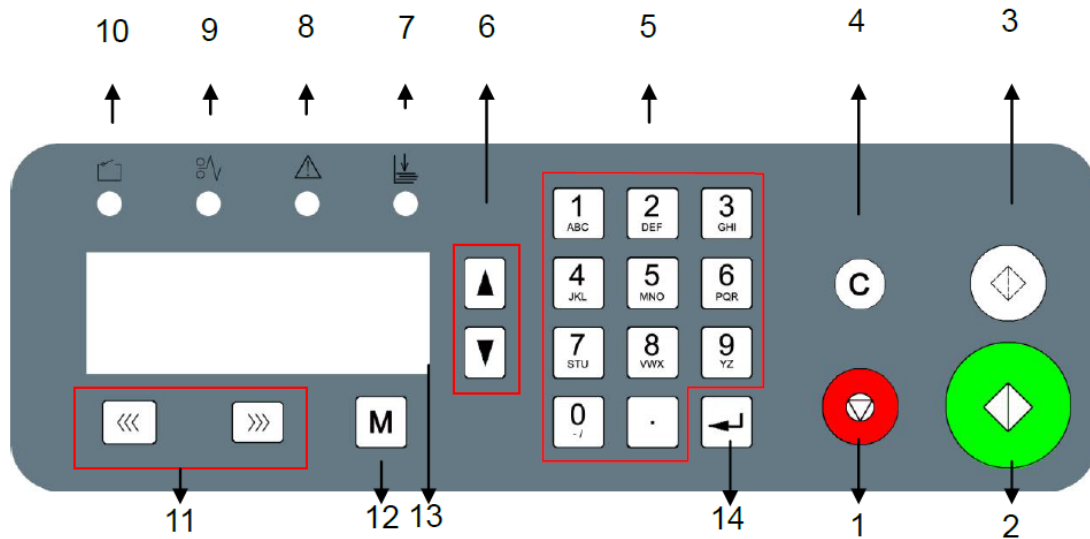


## Omni-Flow 520

	Power socket: AC 220V/50HZ.
	There are two 5*20/6A,250V fuses in side. One is spare.
	<b>Power cord</b> <b>It can carry above 10A current.</b> <b>1. Do not unplug the power cord during operation. It may cause electrical damaged or mechanical issue.</b> <b>2. Unplug the power cord during maintaining or installing parts.</b>
	<b>Grounding mark</b> <b>Do not remove or touch by hand during power-on.</b>

## 5 Operation

### 5.1 Key panel



No.	Key	Description
1	Pause/Stop	System stop button.
2	Start	Run the system.
3	Test	The paper will stop in the exit. It can be used to adjust the side guides on the conveyor to the correct position.
4	Clear	Clear the input or the warning message.
5	Number	Input data.
6	Page up/down	To move the side guides on feeding table in standby mode.
7	Indicator	The indicator will be illumined without placing paper in long run.
8	Error indicator	When error comes up, the indicator will be illumined.
9	Paper stuck indicator	When the paper gets stuck inside, the indicator will be illumined.
10	Safety switch indicator	When the top cover is not closed, the indicator will be illumined.
11	Forward/backward indicator	When paper gets stuck inside, they can be used to drive the paper out.
12	Mode	It can be used to switch between different interfaces.
13	Screen	Display.
14	Confirm	After inputting any data, press this button for confirmation.

## 5.2 Operation interface

There are 8 Interfaces: Standby, Set batch, Set batch pause, Set feed pause, Check speed, Set fan, Double feed detection and System information.

In standby mode, press “M” can switch to different modes. Some modes may have multiple pages, we can use confirming button or page down/up to check more details.

### 5.2.1 Standby



When power on the system, it will come up Vivid’s welcome interface. Then it will enter standby interface. Ver: 1.03 means the current software version of system is 1.03. As for the “Ready 0/0”, the left 0 means quantity of the paper being run and the right 0 means the preset quantity of paper. When the being run quantity reach the preset quantity, the system will stop automatically. In standby interface, we can use number keys for quantity preset and “C” button to clear the quantity. The largest input is 999.

**Notes:** Only in standby interface can we press the green start button to run the system.

### 5.2.2 Set Batch

Press “M” to enter Set Batch interface. We can set the batch quantity. Shown in the following pictures. After confirming, it will enter the standby interface. Then we can set the sheet quantity for each batch. For example, we set 3 batches and 2 sheets for each batch on the system. And then the system will stop when it finishes running 3 batches and 2 sheets for each batch.



**Notes:** When the sheet quantity is less than the setting, the system will stop. Then after we place more sheets on the table, it will continue the last job.

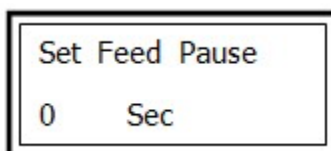
### 5.2.3 Set Batch Pause

Press “M” to enter the set batch pause interface. In this interface, we can set the batch delay time. It can be set from 1s to 99s.



### 5.2.4 Set Feed Pause

Press “M” to enter the interface. We can set the delay time between each sheet fed into the system. It can be set from 0 to 9s.



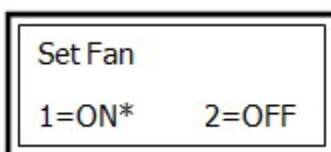
### 5.2.5 Check Speed

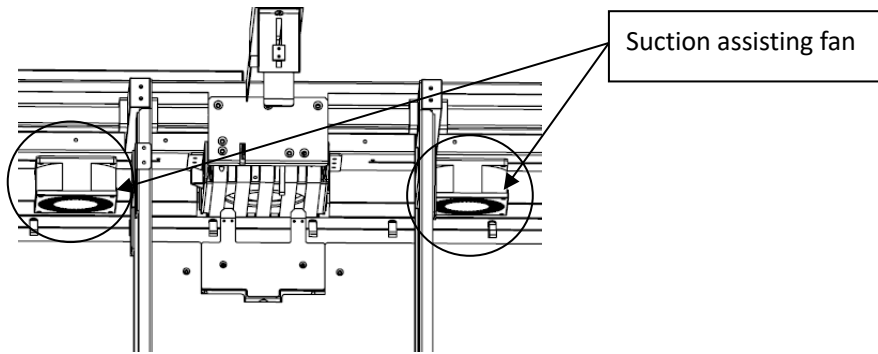
Press “M” to enter the interface. Then press the green start button. It will show the current running speed. We can use the speed adjusting dial to change the speed. Press red stop button to stop the test. Then press the stop button again to enter the standby interface.



### 5.2.6 Set Fan

Press “M” to enter the interface. “1”is to open the suction fans and “2”is to close the suction assisting fan.

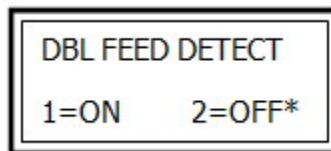




**Notes:** These two fans are used when we run the thicker and larger sheets. It can make this sheets feed more smoothly.

### 5.2.7 DBL feed detect (Optional)

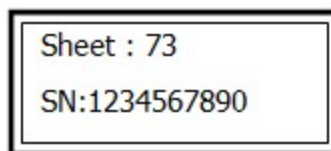
Press “M” to enter the interface. We can select to open or close the double feed detecting function.



**Notes:** The double feed detecting sensors are optional. If there are no double feed detecting sensors on the system but the double feed detect is on, it will come up as an error message.

### 5.2.8 System Information

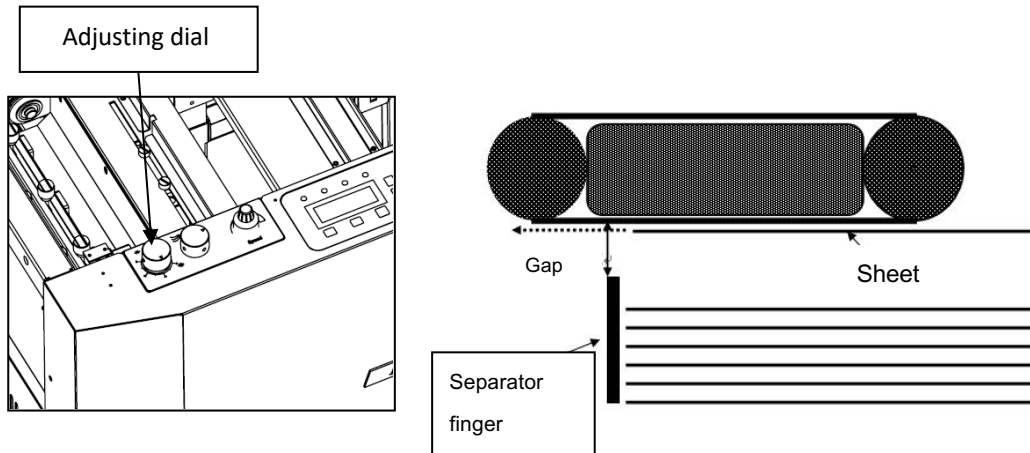
Press “M” to enter the interface. The SHEET means the total sheet count and the SN means the serial number of the system. This information is used for warranty service.



## 5.3 Setting

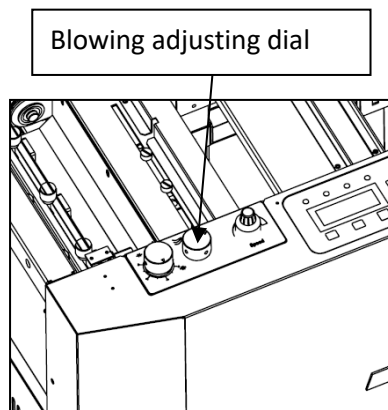
### 5.3.1 Separator finger adjustment

As shown in the following figures. Turning the dial anticlockwise can decrease the gap while clockwise increasing the gap. When the sheets double feed, we need to decrease the gap. When the sheets gets stuck, we should increase the gap.



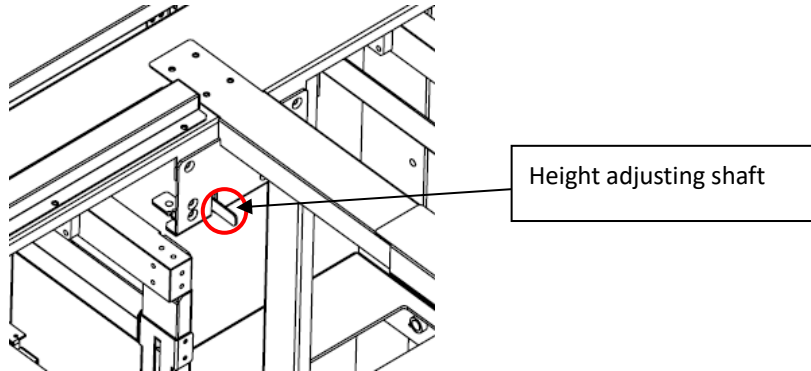
### 5.3.2 Blowing adjustment

Turning the dial clockwise can weaken the blowing. When we run smaller and thinner sheets, we can try weakening the blowing to make it feed more smoothly and stably.



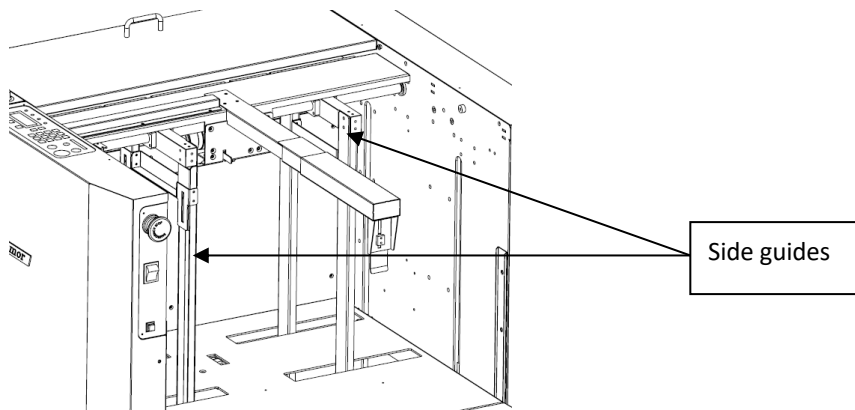
### 5.3.3 Upper limiting height adjustment for feeding table

Pushing up the shaft can enlarge the distance between the sheet and the suction belt. Usually, we set it to the middle.



### 5.3.4 Side guides setting

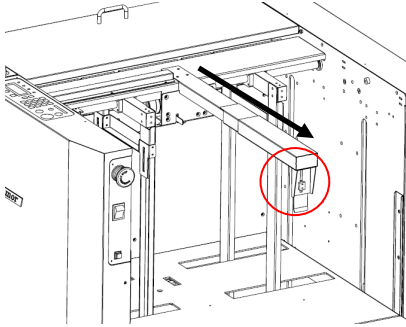
In standby mode, we can use the page up/down button to move the side guides according to the width of sheets. Make sure the sheets can move smoothly in the feeding direction. Usually, about 0.5mm wider than the sheet width will be ok.





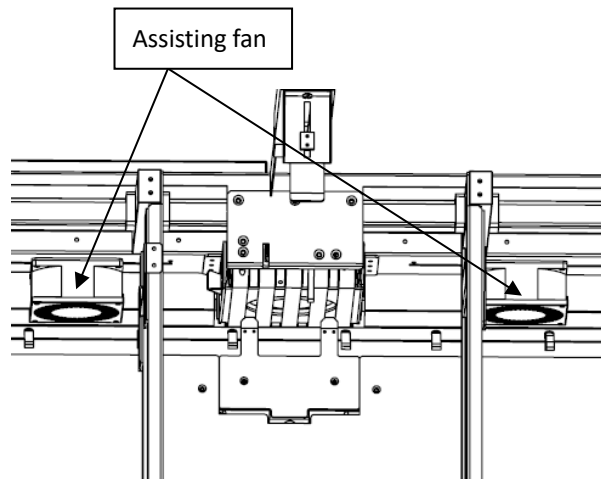
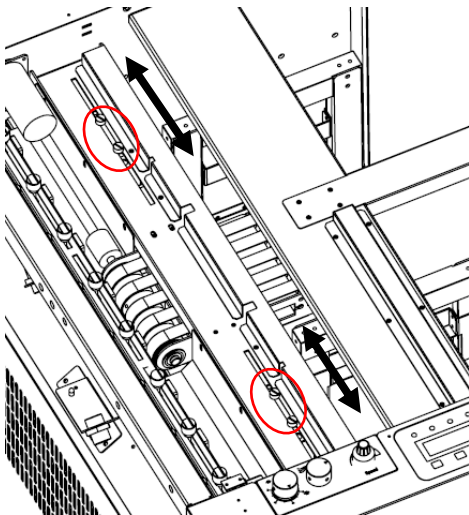
### 5.3.5 Back stop guide setting

After we finish setting the side guides, we should pull the back stop guide about 5mm longer than the sheet length.



### 5.3.6 Assisting fan setting

Loosen the screws in the red circle area and move the fans to the sheet side edge. Then lock the screws.



# Warranty & Incorrect Use

## IMPORTANT INFORMATION

Your Matrix Laminator should reach you in perfect condition and is guaranteed for 1 Year from date of purchase covering defective parts and general wear and tear; this does not cover film jams, misfeeds or other operator related errors, which would be chargeable.

Your Matrix Laminator rollers are covered against manufacturing defects, the warranty does not cover against any damages caused by operator misuse.

Your warranty will be void if the System has been modified by a third party not approved by the manufacturer (Vivid Laminating Technologies) to carry out such alterations.

This product is marked with a crossed out wheellie bin symbol to alert customers to the fact that it must not be disposed of with general/household waste streams. It should be separated from other waste and sent to approved treatment facilities for safe recycling or disposal as otherwise it may cause harm to human health and the environment. For more information please contact your local authority or the retailer where the product was purchased.

E&O.E

Original Instructions

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