

# Flatbed Laminator B4 Series



**EXCELLENT RESULTS, ACCURATE APPLICATIONS**

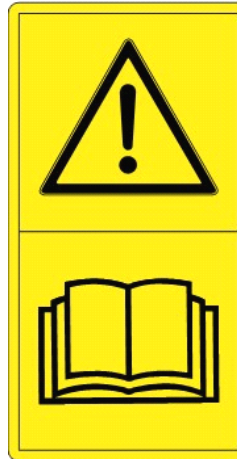
*Laminate Your Value*

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## General information

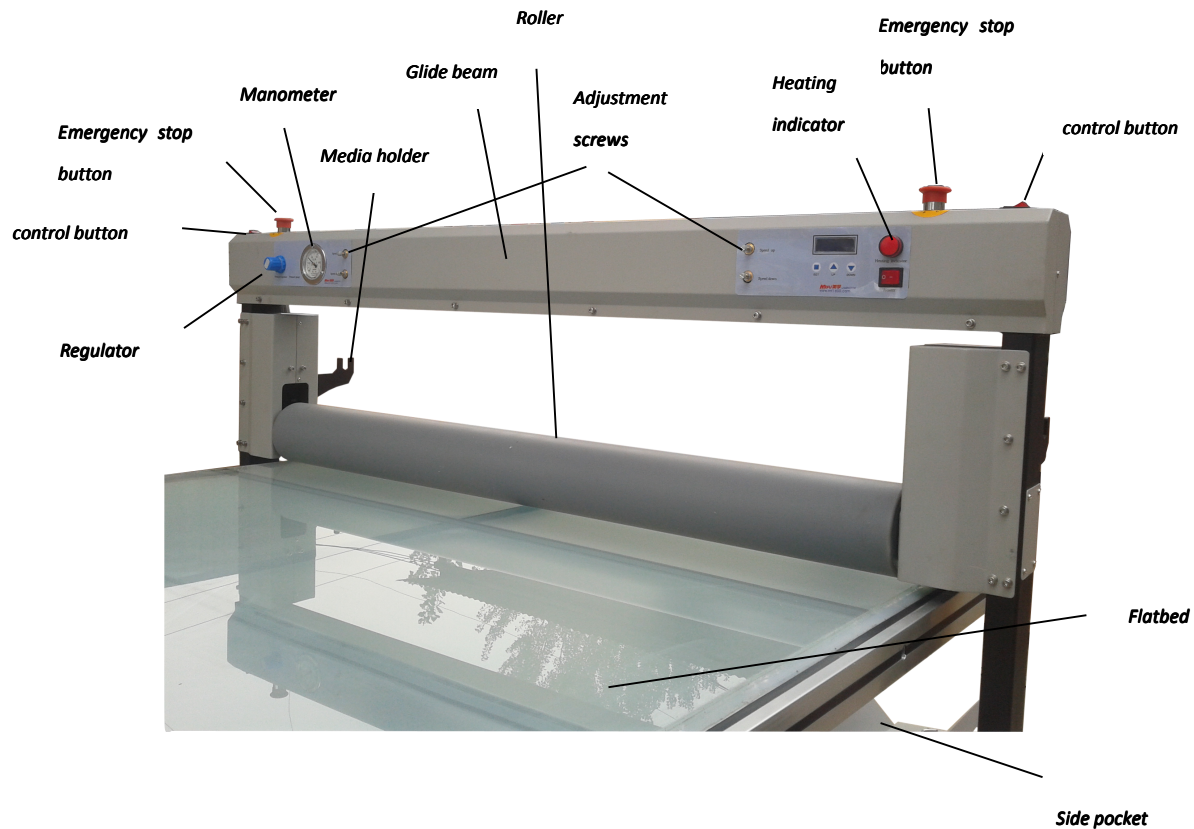
*The Flatbed Laminator is specially designed for signage and graphic industries, used special for flexible sign, board, irregular shaped panels, banners etc. It is designed for dry application of foil and transfer film, and produces a result absolutely free of bubble and fold. The machine consist of a working table(flatbed) and a gliding beam with a pneumatically activate roller that is moved manually over the flatbed.*



Before first use of the Flatbed laminator, you should carefully read this manual, which contains important instructions, indications and safety information. Failure to read the manual may result in serious injury to operators and damage to machine.

*Machine is heavy! Please be careful, when moving.*

## Summary



## Warning symbols

**To know clearly about this manual for using safely with flatbed, you need to be familiar with the warning symbols in this manual.**



*Read this manual*



*About Installation, please contact a technician*



*Electrical risks*



*Take care*

## **Safety**

*In order to make a full understanding of the machine, please read this manual carefully before operation. Take care when operating the machine, especially if more than one operator is using it.*

### **Safety power supply**

*The power supply should meet the requirement of the machine.*

### **Safety function**

*The emergency stop function and the mechanical stop function for the glide beam should be test in connection with installation, servicing, maintenance etc.*

### **Safety operation**

*In order to make a full understanding of the machine, please read this manual carefully before operation.*

### **Safety maintenance**

*Do not use water to clean the machine in case of short circuit,electric shock or rust.*

*In order not to hurt the rollers, please do not put any hard stuff on the machine.*

*Check the wheelwork at a regular time, clean and lubricate.*



*The rollers are mine parts of the machine, damage of the rollers will affect the yields. Please rise the upper roller up after lamination, in case of the deformation of the lower roller under long time weight.*

### **Emergency situations**

*In the event of an emergency, Press the emergency stop button to stop the laminator in an emergency. Then the machine will run again and the button will bounce up, when you clockwise rotate to the neutral position.*



*Red emergency stop buttons are located at the both sides of the glide beam, which are on the top of the glide beam.*



## ***Installation, assembly and dismantling***

*The Flatbed Laminator should be assembled and used in a clean room with a normal room temperature and normal humidity levels. The work place should be dry and ventilated. Do not use this machine near water source or wet ground. This minimises the occurrence of static electricity. In the meanwhile, do not close to combustible and explosive goods.*

### ***Delivery inspection***

*When the machine is delivered, the following units are included:*

- *Flatbed laminator*
- *Manual*
- *Accessories*

### ***Connections***

*Voltage: AC220/240v 50-60HZ*



*Electrical connectors may only be connected to socket to sockets with the correct voltage. All other operations may only be performed by authorised staff.*

### ***Positioning***

*The Flatbed Laminator should be placed in a dry and ventilated situation.*

### ***Before use***

*Check the wheelwork (at a regular time), clean and lubricate.*

### ***Using***

*The roller is hot during working, please do not touch it, in case of scalded or bruised.*

### ***After use***

*Place the roller in the idle position, raised 5 mm above the working table (flatbed)*

*Clean the roller at a regular time, do not use water to clean the machine in case of short circuit, electric shock or rust.*

*Use 80% alcohol, detergent or eraser to clean the rollers after lamination, which can lengthen the rollers' life.*

- 1. The temperature of the roller should under 40°C and stop heating.*
- 2. Do not focus on one point.*
- 3. Clean the residuum in time, otherwise it will affect the yields.*

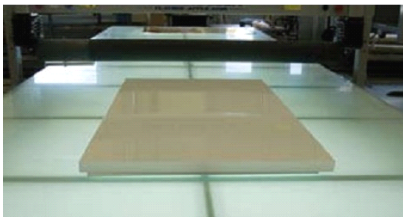


### ***Flatbed Laminator with unmounted glide beam***

*Assembly with the steps performed by technician authorised.*

## Operation

*Before operation, no specific training for using the Flatbed Laminator. All the necessary instruction for use is contained in this manual.*



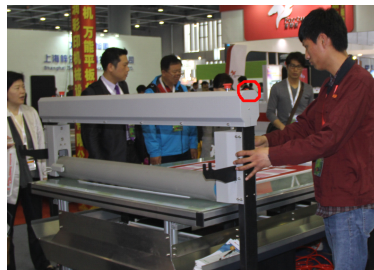
*1. Position the material in the center of the working table.*



*2. Place the metal sheet on a section of polystyrene or similar material to stabilise the sign and distribute the pressure.*



*3. Place the graphic on the substrate and measure to the exact size.*



*4. Using the control button on the top of the machine, press the roller against the substrate to fix the graphic into place.*



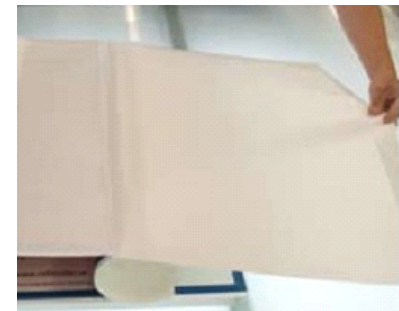
*5. Fold half of the graphic over the roller.*



*7. Fold the liner back underneath the roller to form an even pleat, as shown in picture.*



*6. Peel off the liner from the half that is above the roller*



*8. Get the right to the edge of the liner, raise the roller slightly so that it does not roll onto the table. Make sure that the graphic is pressed against the roller.*

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9. Slide the guide beam slightly and manually to finish the whole lamination.



10. Laminated graphic



11. Trim to size if the graphic is larger than the substrate.



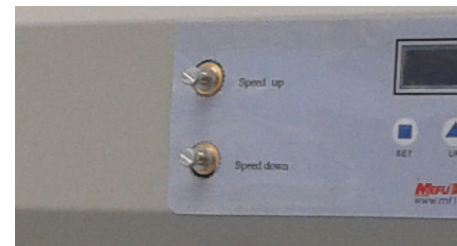
12. The result: a smooth sign without creases or bubbles

### **Adjustment of the roller speed**

If you want the roller to move faster or slower, or the speed for the both sides of this roller is uneven, you can adjust the speed. Please note that this is normally not necessary, since the roller speed is preset at the factory.



**Contact a technician**



As shown in the picture, you can use the two adjustment screws on either side of the glide beam.

The lower screw reduce the speed and the upper screw increases the speed. Adjust the screws to the desired speed on one side. Change sides and adjust on the other side so that the roller can be lowered flat against the table. Lock with the lock nut.

## *Laminate Your Value*

## Maintenance

*Every day*

- *Make sure that the machine is not held any hard stuff and the roller is not damaged.*

- *check the buttons on the machine*

*Once a week*

- *clean the machine*

*Once a month*

- *clean and lubricate the wheelwork.*

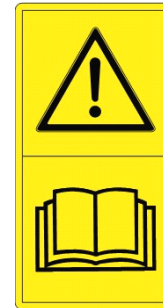
- *If you have an air compressor with flatbed laminator, check and clean with its manual.*

*As necessary*

- *check the bearing play in the glide beam.*

## Troubleshooting

<i>Problems</i>	<i>Methods</i>
<i>The rubber roller won't move up and down</i>	<i>1.Reset the emergency stop button. 2.Reset the controls 3.Check the air value (If none of this helps, please contact a technician)</i>
<i>The machine pulls unevenly during application</i>	<i>contact a technician</i>
<i>Height adjustment function doesn't work</i>	<i>Reset the function by pressing (If this doesn't help, please contact a technician)</i>



*The equipment may only be used for its intended purposed as specified in this manual. For any other use may result in damage or injury, and is at the user's own risk.*

## Technical specification

Flatbed Laminator B4 Series							
Size (working area)	1300*2500mm	1300*3200mm	1300*3600mm	1300*4000mm	1700*2500mm	1700*3200mm	1700*3600mm
Bed width	1.3m	1.3m	1.3m	1.3m	1.7m	1.7m	1.7m
Bed length	2.5m	3.2m	3.6m	4.0m	2.5m	3.2m	3.6m
Max Thickness of substrate	50mm	50mm	50mm	50mm	50mm	50mm	50mm
Height adjust	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder
Pressure adjust	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder
Preheat time	5-10mins	5-10mins	5-10mins	5-10mins	5-10mins	5-10mins	5-10mins
Power Consumption	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h
Power input	2000w	2000w	2000w	2000w	2000w	2000w	2000w
Heated method	Infrared	Infrared	Infrared	Infrared	Infrared	Infrared	Infrared
Volt	110/220v	110/220v	110/220v	110/220v	110/220v	110/220v	110/220v
N.W.	350kg	400kg	420kg	450kg	400kg	450kg	480kg
Side trays	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bed surface	Matte glass	Matte glass	Matte glass	Matte glass	Matte glass	Matte glass	Matte glass
Light tubes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Silent compressor	Optional	Optional	Optional	Optional	Optional	Optional	Optional

\*The roller's height or pressure is adjusted automatically and moved manually across the working area, The operator can stand on either side of table.

\*The thickness of the material can be handled up to 50mm.



### **Technical specification**

Flatbed Laminator B4 Series					
Size (working area)	1700*4000mm	2200*2500mm	2200*3200mm	2200*3600mm	2200*4000mm
Bed width	1.7m	2.2m	2.2m	2.2m	2.2m
Bed length	4.0m	2.5m	3.2m	3.6m	4.0m
Max Thickness of substrate	50mm	50mm	50mm	50mm	50mm
Height adjust	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder
Pressure adjust	Air cylinder	Air cylinder	Air cylinder	Air cylinder	Air cylinder
Preheat time	5-10mins	5-10mins	5-10mins	5-10mins	5-10mins
Power Consumption	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h	0.8-1kw/h
Power input	2000w	2000w	2000w	2000w	2000w
Heated method	Infrared	Infrared	Infrared	Infrared	Infrared
Volt	110/220v	110/220v	110/220v	110/220v	110/220v
N.W.	520kg	500kg	550kg	580kg	600kg
Side trays	Yes	Yes	Yes	Yes	Yes
Bed surface	Matte glass	Matte glass	Matte glass	Matte glass	Matte glass
Light tubes	Yes	Yes	Yes	Yes	Yes
Silent compressor	Optional	Optional	Optional	Optional	Optional

\*The roller's height or pressure is adjusted automatically and moved manually across the working area, The operator can stand on either side of table.

\*The thickness of the material can be handled up to 50mm.



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Beijing ChinaSigns Information Co., Ltd.

ADD: ADD: 3M th Fl, 1 Bldg, 3 Zone, Hanwei international square Fengtai District, Beijing China P.C: 100070

Telephone: +86 13801248714

**[www.Sign-in-China.com](http://www.Sign-in-China.com)**

<https://www.youtube.com/watch?v=oOQ9VgaVwV0&feature=youtu.be>