

# EL380/EL450/EL520/EL650 Laminator

## Important safeguards

1. Always handle the laminator with care. Keep hands, long hair, loose clothing and other articles away from the front of the heat and pull rollers to avoid entanglement and entrapment.
2. The heat rollers can reach temperatures over 130°C. Avoid contact with the heat rollers during operation or shortly after power has been removed from the laminator.
3. The laminator should be connected only to a source of power as indicated in this manual and on the serial plate located on the rear of the laminator. Contact an electrician should the attachment plug provided with the laminator not match the receptacles at your location.

## Installation

1. Place the laminator on a stable flat surface capable of supporting at least 80 kg.
2. Avoid locating the laminator near sources of heat or cold. Avoid locating the laminator in the direct path of forced, heated or cooler air.
3. Connect the attachment plug provided with the laminator to a suitably grounded outlet only.

# EL380/EL450/EL520/EL650 Laminator

## Feature Guide

1. Power switch: Located in the front of the laminator.
2. Overload Protector: Located on the rear of the laminator, near the power cord. That can be reset by manual push if necessary.
3. Speed Control: On right front panel a potentiometer provides variable speed control, and on top of it there is a motion control switch which has three positions: Forward, Pause and Reverse.
4. Foot Control: A foot switch is attached to the EL Laminator. It is enabled or disabled by the switch near the speed control potentiometer.
5. Temperature Control: Proportional temperature controller is located on the left front panel. It has a green and a red LED indicator, when green LED is on which indicating the heating is underway. If the green light is out and red light is on which indicates the temperature has reached setting point and the heating is stop.
6. Roller Pressure Adjusting Knobs: located on top of Laminator, turning both knobs simultaneously to ensure the even pressure if needed to do so.
7. Roller lift Handle: Located in the right side. Turning to "Open" to lift top heat roller. Turning to "Close" position is for laminating. When the machine is not in use, upper roller should always be in the "Open" position, to keep the bottom silicone roller from degrading.



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8. Feeding Guide: Adjustable Feeding Guide.

9. Film shaft Core Adapters and Tension Brake: Film shaft comes with two 3 inch core adapters and a tension adjusting(brake) knob, by turning the knob to increase or decrease film web tension as needed to reduce curl and winkle.

10. Laminating Switch: Located on the lower left panel. It is used for choosing single side lamination or encapsulation (double side lamination). **Only switch to double side position once the upper roller is cool enough to let heating take effective.**

### Operating Instructions

1. Turn the Power switch on. Motion switch on forward position and Foot switch on Foot position.

2. Put on the film roll to the mandrel and located on the center position, make sure the adhesive side of film to face away from rollers. Top and bottom film rolls should be aligned to one another if doing double side encapsulation lamination this prevents exposed adhesive from contacting the rollers.

3. Threading film according to the Diagram.

4. Use a lead board pushing the film evenly into the main roller nip. And pulled by the pull rollers while pressing the Foot switch.

5. Setting the laminating temperature to a certain degree (normally 70~100°C) according to the nature of film. You need to

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adjust it to get the good laminating result. **Do not set the temperature over 115°C to avoid damaging the laminator.**

6. After the work of laminating, always lift up the steel upper roller to prevent the bottom silicone roller degrading.

7. Clean any adhesive that may stick to the main rollers to prevent adhesive build up further.

### Maintenance

EL laminator only requires minimal maintenance. However, regular maintenance is essential to keep machine at peak performance. The only maintenance is to maintain clean and adhesive free nip rollers and overall cleanliness of the laminator itself.

**1. Remove power from the laminator before servicing to avoid electrical shock!**

2. Use extreme caution while the laminator is hot as the adhesive is easier to remove.

3. Use water damp cloth to clean the adhesive on rollers, or use rubber cement eraser to clean up adhesive (use dishwashing detergent is ok but do not spill into the laminator)

4. Lubricate the chain and gears every half year and check the chain tension as well.



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## Specifications

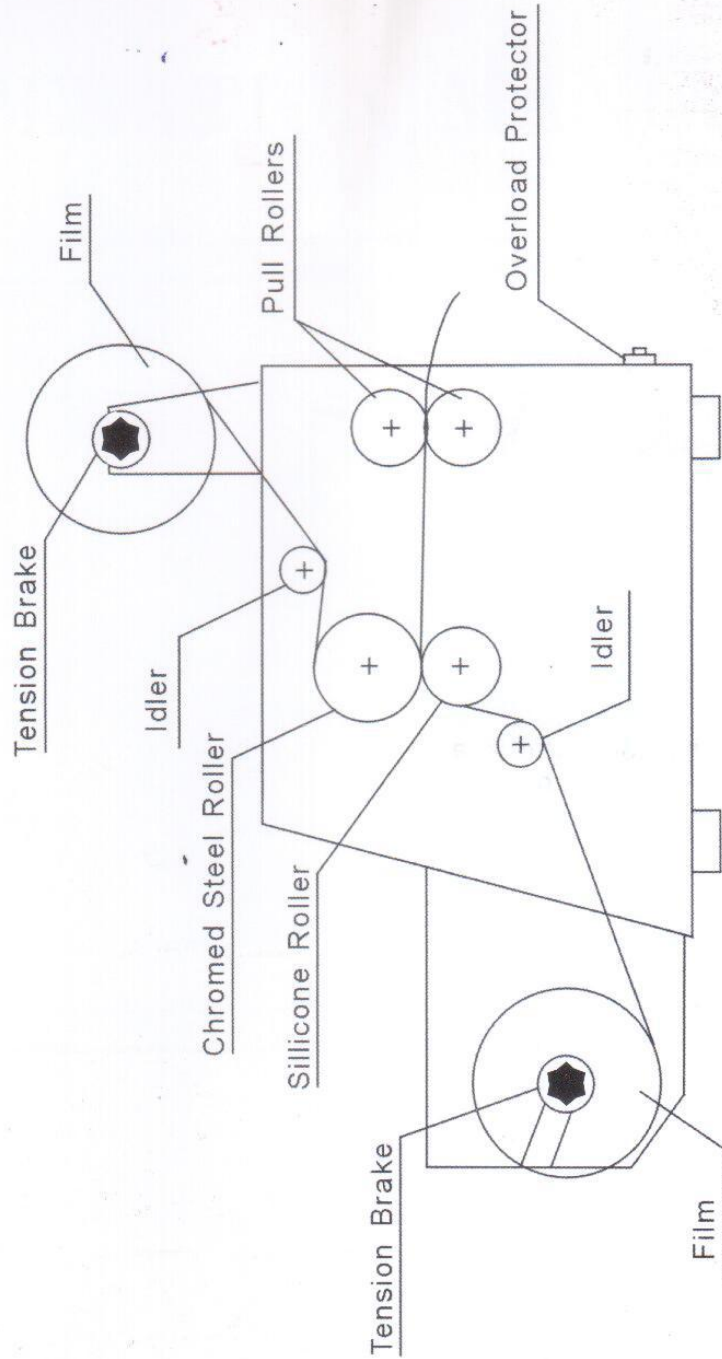
Model	EL380	EL450	EL520	EL650
Max.Laminating width (mm)	365	435	500	635
Max.Laminating Speed(m/min)	5m	5m	5m	5m
Voltage	220V、50/60HZ	220V、50/60HZ	220V、50/60HZ	220V、50/60HZ
Power:Single/Double Laminating	0.9KW/1.9KW	1KW/2KW	1.2KW/2.5KW	1.35KW/2.8KW
Max.Laminating Temperature	130°C	130°C	130°C	130°C
Dimensions (mm)	550×605×480	550×675×480	620×760×510	620×895×510
Weight (kgs)	41	47	62	70

Note: There are sub-models with suffix R and B:  
 With rewind section (suffix R) and with conveyor belt (suffix B)  
 Optional Parts:Perforator(suffix P),Slitter(suffix S),Extention Table (suffix E)

## Trouble Shooting Chart

Symptom	Possible Cause	Solutions
Film shrink	Temperature too high	Lower Temperature
Output looks snowy	Pressure too low Temperature too low	Increase pressure Increase temperature
Waves in output	Film tension is incorrect Insufficient pressure	Adjust tension brake Adjust rollers pressure
Laminates with bubbles	Temperature is too high or too low Prints with moisture	A djust temperature To dry prints

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Film Threading Diagram