

Product instruction manual
Easymount Air Wide Format Laminators

easymount.[®]
AIR



The Easymount 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.

®

Introduction

Thank you for purchasing the Easymount laminator.

The patented technology within the Easymount Air uses one of the most advanced concepts ever seen in a wide format laminator. Pneumatic air pressure controls the laminating rollers, allowing you to mount and laminate with incredible accuracy and speed.

This technology allows the roller to adjust to the exact thickness and pressure required, giving faster production times. The pneumatic air allows the roller to float down; ensuring Foamex and fluted boards are not crushed. When the rollers achieve the correct board thickness, the roller can be locked in place to keep the required gap, making board feeding more accurate. Mechanical wedges, often used to lock the roller by other pneumatic systems, are not required.

Call us on: **0845 1 30 40 50**



Safety Instructions

- Please ensure that the voltages of power supply you are using match with rated working voltages before operating the machine
- The power supply should be close to the machine for convenient use
- The power supply should provide reliable protective earthing connection
- This machine must be earthed reliably to ensure the safety of the machine during operation
- Only the operators of this machine should operate the electric or motion components/controls
- Please don't use damaged wires or sockets
- Please keep children away from touching and operating this machine
- Please do not spray water or other liquid on the machine otherwise electric shock or machine faults could occur
- Please do not replace power cord or plugs yourself, do not put heavy objects on the power lines as this may cause electric shocks
- During use please take care that no clothes, neckties, hair, necklaces etc are near the machine otherwise injuries could occur
- Please don't put burrs, sharp blades or over thick rigid materials into the two rubber covered rollers (for example, tools, rulers and knives etc.)
- Don't cut adhesive films directly on the surfaces of the rubber covered rollers to avoid damage
- Please shut down this machine after laminating to avoid misuse of the machine
- At the end of the working day always lift the rollers to ensure no flat spots or distortions occur
- When you need to move this machine, please shut down the power switch and pull out the plugs
- Please be aware of the location of the wheels during moving or operating this machine to avoid foot injuries
- Always ensure the machine is positioned on a flat and level floor
- Please shut off the power supply (pull out the power plug) when the machine isn't going to be used for long periods of time.

Environmental Requirements

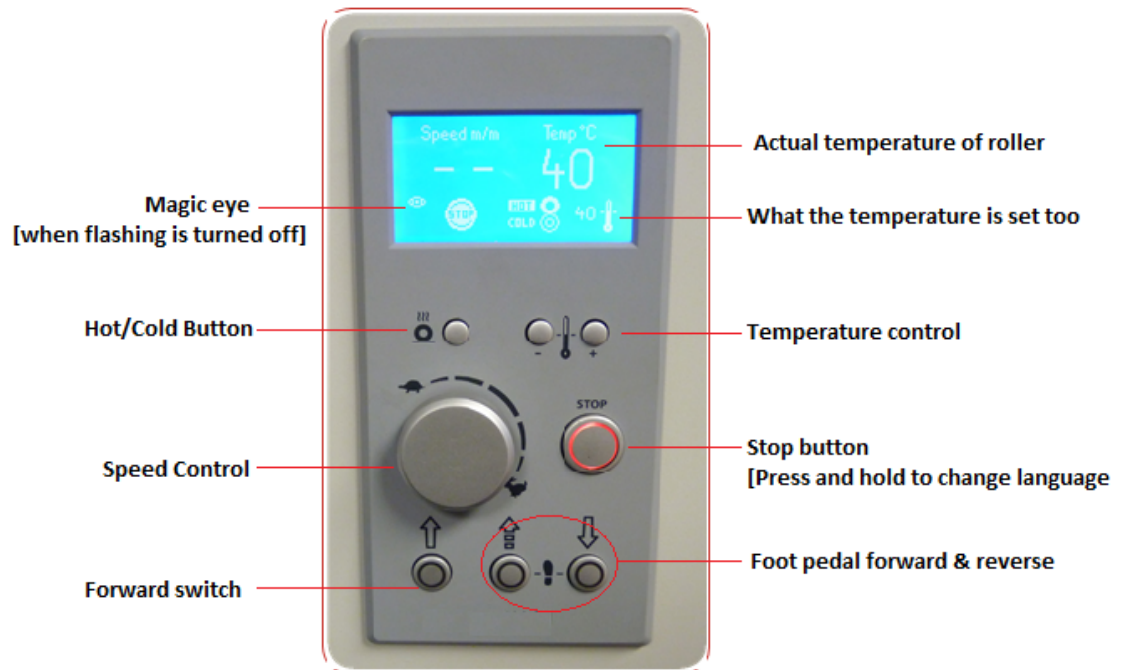
- Ambient temperature 10°C - 40°C, humidity 30% - 80%, Ideal humidity 55%
- Dust - Due to the static adherence of the film, you should keep the environment clean, a dust cover is provided with the machine
- Please do not keep the machine in direct sunlight
- Please do not keep the machine in or around dusty areas
- Enough space should be kept around the machine to ensure the secure and effective application. The minimum holding areas are 2.5m x 3m

Specifications

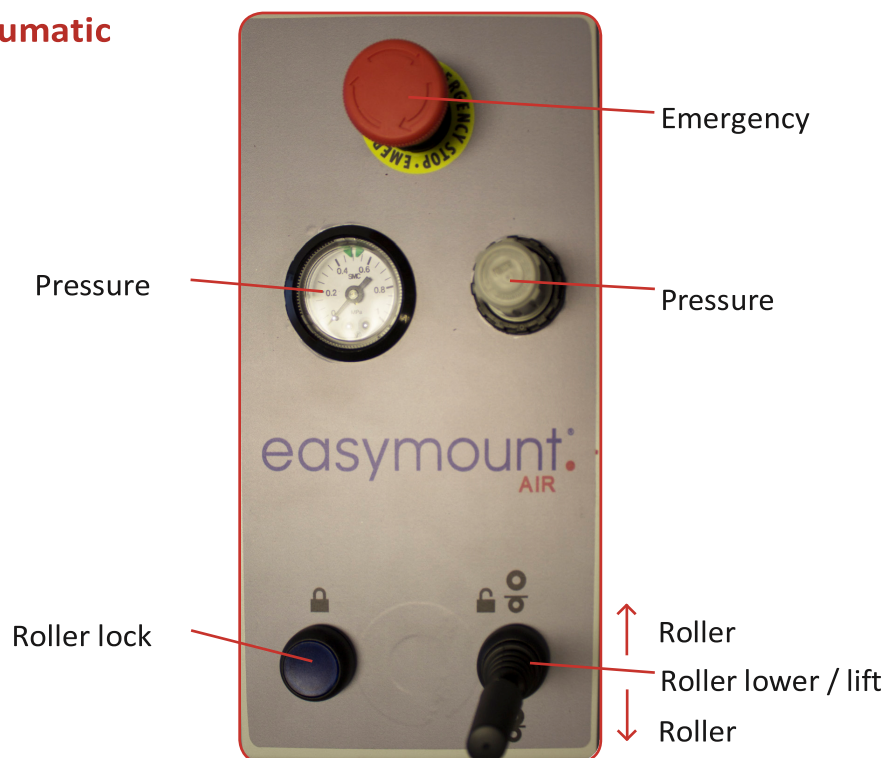
Easymount Air

	EM-A1600SH
Laminating Speed (mpmin)	10m
Max Laminating Width	1600mm
Mounting Thickness (mm)	30mm
Roller Diameter (mm)	130mm
Laminating Temperature (°C)	0-60°C
Control Panel	Digital
Pressure Adjustment	Pneumatic
Film Core (mm)	77mm
Power Supply AC (V-Hz)	220/240-50-60
Power Consumption (W)	1500
Overall Dimensions (mm)	2190x740x1255mm
Gross Machine Weight (Kg)	245Kg
Warranty	1 year

The Controls



Pneumatic

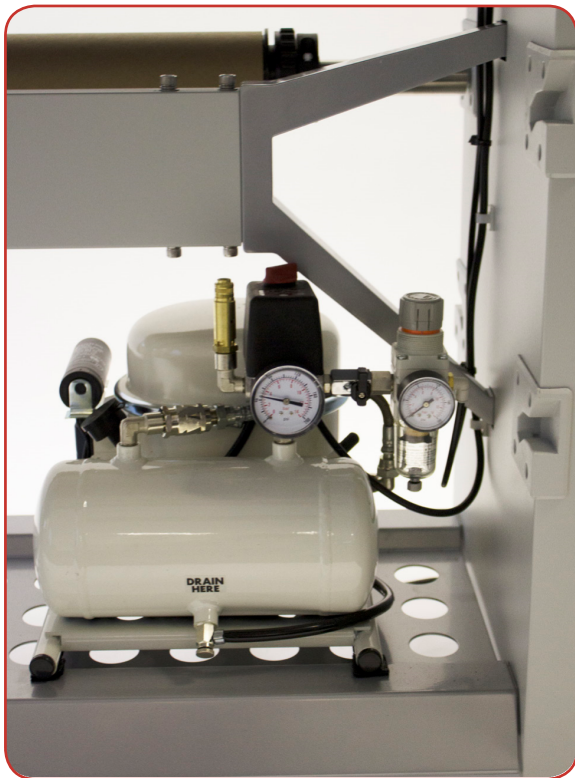


Components of the Laminator

1. Roller lift control panel
2. Digital control panel
3. Lift up feed table
4. 2x Emergency stop buttons
5. 3x Media support brackets
6. Reel to reel take up unit (optional)
7. Laminate film mandrel
8. Take-up mandrel
9. Compressor



Compressor Operation & Maintenance



Operation

Refer to exploded parts diagrams and illustrations when reading this section.

Oil level CHECK OIL LEVEL BEFORE USE

Model 35/20

- Remove oil filler plug - *see fig 1*
- Pour oil into motor until correct level is reached - indicated on the oil sight glass, approx 500cc - *see fig 2*
- Refit the oil filler plug - but do not over-tighten.

Note!

Always use SB42/46 compressor oil. Failure to do so will invalidate your warranty.

Starting & Stopping

Plug the compressor into an outlet socket of nominal voltage and fitted with a 13amp fuse.

Switch the compressor on using the red button on top of the pressure switch. Pull knob up to switch on, push down to switch off – *see fig 3*.

The compressor will start running and automatically switch off at the preset pressure.

As air is used the pressure drops and the motor will restart at the preset pressure. Approx 2 Bar differential.

Note!

Never tamper with the pressure switch settings, these are factory set.

Adjusting Outlet Pressure

Use the filter regulator to adjust the outlet pressure. The 40mm pressure gauge indicates the selected pressure. To increase line pressure rotate the black knob on top of the filter regulator in a clockwise manner, to decrease turn anti clockwise. It is possible to lock the setting by pushing the knob down until it "clicks" home – *see fig 4*.

Routine Maintenance

Draining the Air Receiver

Drain condensate from air receiver at a pressure of no more than 2 Bar. Slowly open the drain tap provided to allow water to flow out – *see figs 7 & 8*. Close drain tap when all water has drained off. Do not overtighten, this will damage the tap seal. Automatic drains where fitted do not require draining, however the drain bottle will require emptying.

Draining the Filter/Regulator Unit

Slowly open the drain screw provided to allow water to flow out – *see fig 5*. Close the drain screw when all water has drained off.

Note !

The waste condensate must be handled in accordance with national environmental rules.

Check Pressure Relief Valve

Ensure the air receiver is not pressurised. Unscrew the knurled end of the pressure relief valve until an audible "click" is heard. Retighten without using excessive force – *see fig 6*.

Technical

The compressor has a maximum 50% duty cycle. The motor must never be allowed to run continuously otherwise it will overheat and may become damaged.

Do not ignore air leaks. All air connections must be leak free to prevent the compressor from over heating.

The compressor is fitted with a thermal overload. In the event of excessive temperature the motor will switch off. After about 50 minutes when the motor has cooled it will automatically reset.

Note !

You must find the cause of the overload and rectify this before continuing to use the compressor.

Check for -

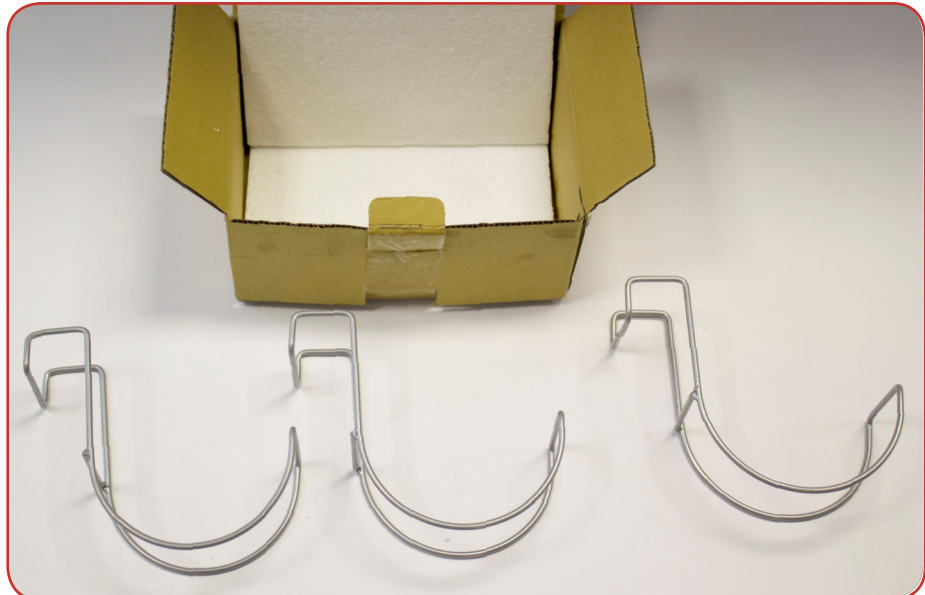
- Drain tap not closed properly
- Air leaks on the pneumatic fittings
- Compressor not the correct size for the work load

Should be included...



2 boxes...

Box with media support brackets



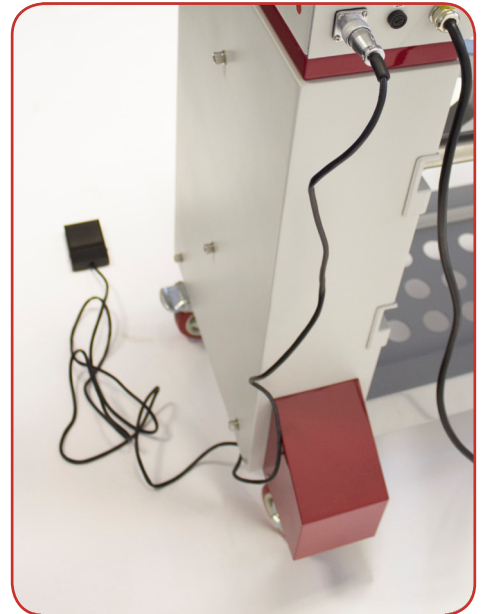
Easymount Box to include

- Manual
- Maintenance Allen keys
- Safety cutter
- Dust cover
- Foot pedal
- Spirit level

Set-up

Ensure the system is positioned in a safe and convenient place, please read all safety requirements before operating your Easymount.

Connect the foot pedal into the relevant socket at the rear of the system and lock the wheel brakes in place.



The single heated Easymount can be run either cold or warm to switch between the two modes press the hot roller button on the control panel, The display will then show HOT next to the top roller icon.



Set the desired temperature using the up or down buttons. Both the set temperature and the actual temperature are displayed.

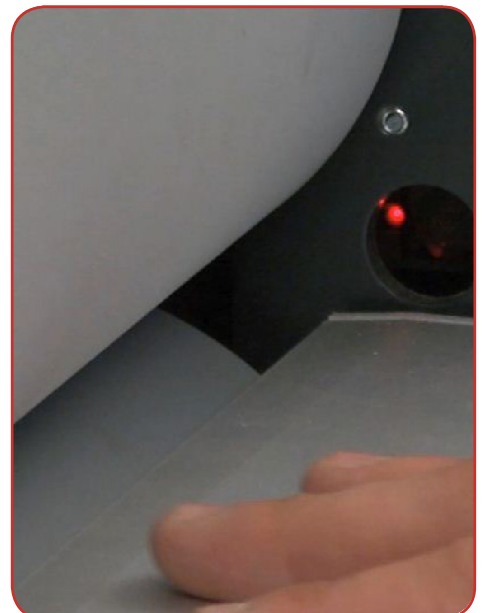


Set-up

To drive the machine press either the forward drive button (left hand arrow) for continuous drive or step button (middle arrow) for the foot switch. The foot switch over rides the magic eye, it is advisable to start the machine with the foot pedal & then press the continuous button when running.



The films will then begin to be drawn through the machine. NOTE: When using continuous mode if the 'magic eye' sensor is blocked by material or hands the machine will stop, to override the sensor press the foot pedal.



You can adjust the rate at which the machine laminates by turning the 'speed control knob' up to a maximum of 10m/min.



Installation of Laminating Films

Open Mandrel locking sleeve.

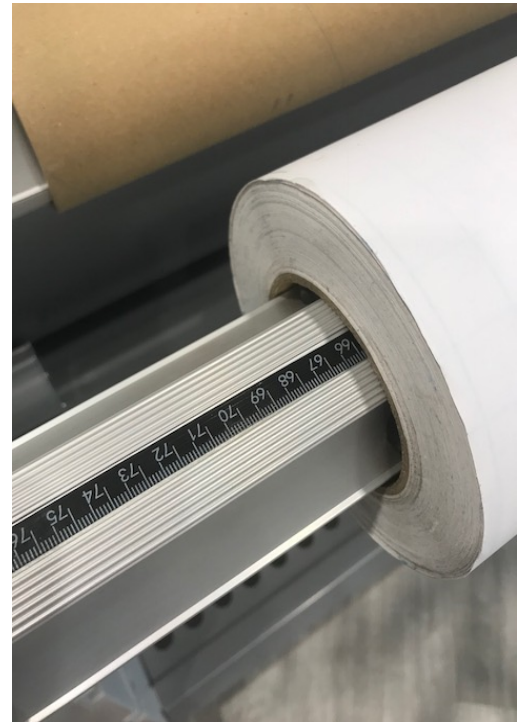


Pull out the Swing out arm and slide the laminate in place.



Installation of Laminating Films

Locate the swing out arm back into its home position & centralize the laminate on the mandrel using the measurement guide.



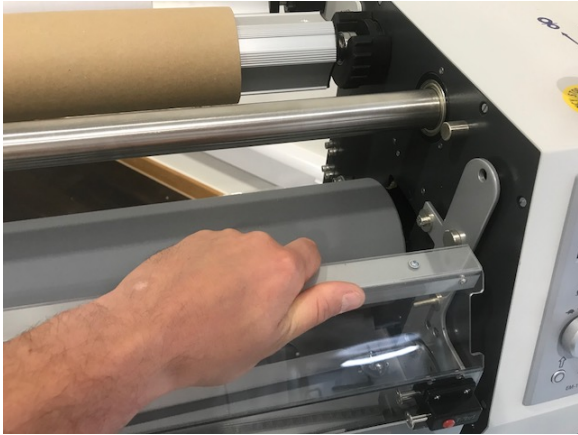
Remove the take up mandrel [waste mandrel] by opening both locking sleeves and slide on a 3 inch core, then lock the mandrel back into place.



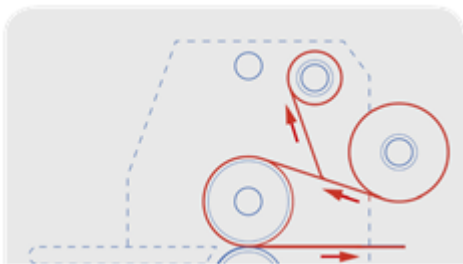
Installation of Laminating Films

Film Loading

Remove Safety Guard & Media support plate.



Higher the roller and pull the laminate through the machine.



Put tension on the laminate.

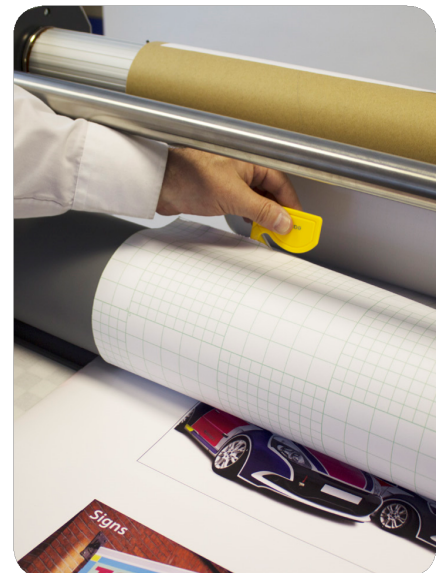


Pull the laminate from the back of the machine in the centre of the laminate with one hand while pushing the lever to lower the roller with the other hand. Please ensure you do not put too much pressure on the roller. For general lamination and board mounting set the pressure control to zero.

Please note: When mounting board, insert into rollers bring rollers down and press the lock button. This will illuminate, the rollers are now set to the required gap and will not move until The pressure control lever is pushed to lift the rollers.



Once film is held in place separate the backing paper from the film using the safety knife provided.



Select foot pedal mode and select a slow speed, then press the foot pedal and inch the laminate through the rollers until the cut backing paper faces you.



Installation of Laminating Films

Pull the backing paper up towards the take up mandrel from the centre and secure it to the core using packing tape in 3 places, the centre, left and right.



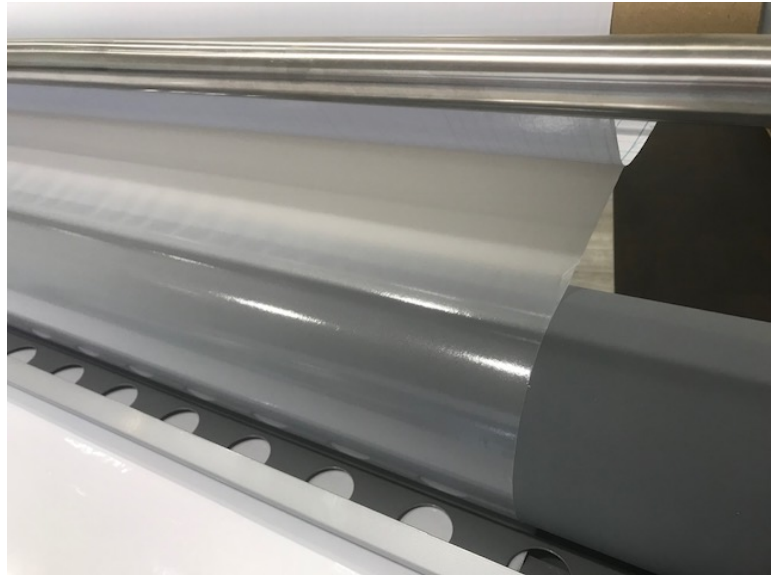
Pull the remaining backing paper of the laminate down to the feed table and roll your vinyl and place in the hooks provided.



Insert the media support plate and safety guard.
Feed your media over the feed table and into the nip of the rollers.
When doing this ensure the vinyl is flat.

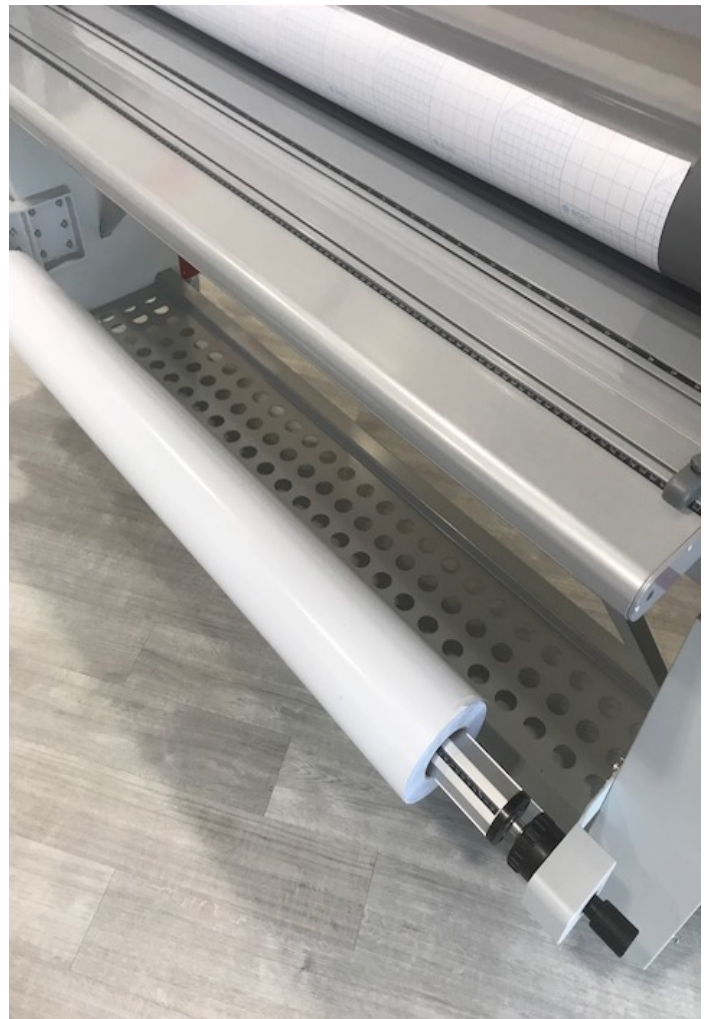


The Laminate should be tensioned enough to prevent creases on the media, if the laminate is following the backing paper either reduce the tension on the backing paper or increase the tension on the laminate.



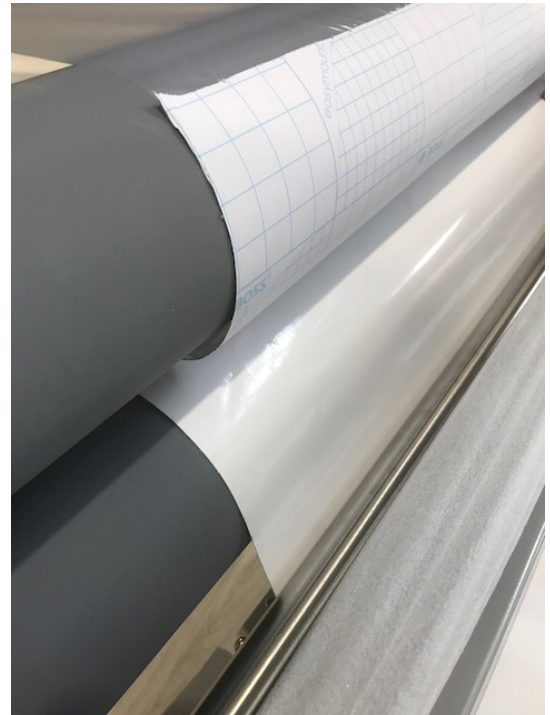
Loading Roll to Roll

Open bottom mandrel locking sleeve and slide the vinyl in the centre of the mandrel.



Installation of Laminating Films

Lift the feed table in the up position and secure remaining media to the film, higher the top roller and insert the vinyl around the threading bar into the rollers.



You need to use a small amount of tension to hold the vinyl taught. Hold both the laminate and vinyl from the centre at the back of the machine and push the lever to lower the roller down.



Please Note:

When the Easymount is not in use lift the rollers to prevent flat spots, which could cause a line in future work on every revolution of the roller.

Optional Extras

Take-up Unit

Remove blanking plates using a 5mm Allen key. Secure the left and right brackets to the machine.



Plug in the take up unit. Select full speed, forward & combine. Fit the take up mandrel (note the bracket is sprung loaded on the motorised unit). Then using double sided tape attach media/laminate to the core, the Easymount laminator is now ready to run prints reel to reel.



Laminating Adjustments

Temperature

Most pressure sensitive films benefit from around 40°C / 104°F of heat being applied to help eliminate 'silvering'. If you don't get the desired result with 40°C / 104°F continue adding 5°C / 41°F of heat until you get the finish required.

Speed

Adjust the speed until you get the required results

Roller Pressure

Under normal operation wind the roller pressure adjustment handle until the rollers meet and the handle goes into a neutral mode then turn gently until you feel resistance. Then just apply an extra $\frac{1}{8}$ of a turn to ensure there is sufficient pressure. If 'BOW' marks appear across the laminated document there is too much roller pressure applied and the top roller should be lifted slightly.

General Maintenance

The most expensive part of a laminator is usually the rollers. If these become damaged they are costly to repair. Always ensure you look after the rollers and clean them regularly to avoid a build-up of glue (see advice below). Never hold a sharp object such as a knife close to the rollers in case of catching the rubber as this could cause permanent damage that will effect the result of your work.

When your laminator is cooling down, always separate the rollers using the roller pressure control, this will ensure that your rollers do not touch when still hot as this could leave a 'flat spot'.

Cleaning the rollers

It is easier to remove adhesive from the rollers when they are warm. Do not attempt this if the system is hot (above 40oC). Always use a clean cloth and a mild anti-static foam cleaner such as Amberclens by Ambersil or similar. Do not use a heavy-duty solvent or anything abrasive.

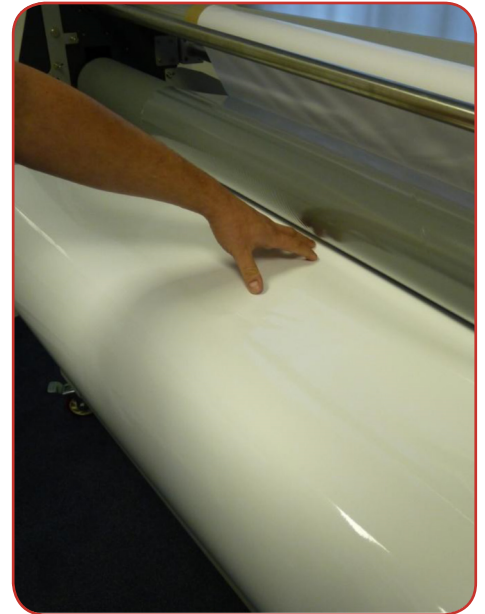
If the film becomes jammed in the system in any way and there is a large build-up of adhesive, do not try and remove this yourself. Contact us for advice.



Trouble Shooting

Problem

Media lifting in centre and wrinkling going through the rollers.
This is caused by adding too much roller pressure.



Solution

Check the roller pressure is set to zero.



The media will then correct itself and run through smoothly.
Film running loose and climbing up onto the take up core.
This occurs when there is NO tension added to the film.



Trouble Shooting

Problem

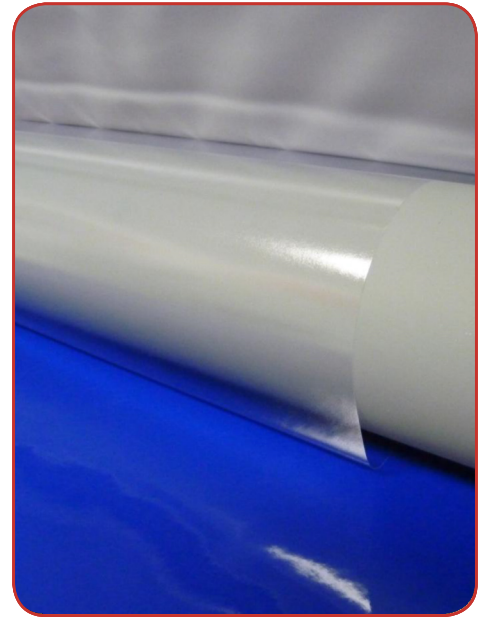
Laminate or media lifting at edges.

Solution

Firstly, ensure the laminate and vinyl have sufficient tension. Add tension to the film by turning the tension handles in a clockwise direction. This must be done tightly for the film.

The film will now 'tension' and separate behind the roller and run through without creasing.

Media running too tight over the feed tray. This happens when the media is loaded onto the system and fed over the feed tray.



Warranty & Incorrect Use

IMPORTANT INFORMATION

Your laminator should reach you in perfect condition, however please retain all original packaging once you have unpacked your laminator in case you need to return it to us. If your laminator arrives damaged or faulty in anyway, this must be reported to your supplier immediately. If you send your laminator back for repair under warranty at any time, then the warranty may be void if the laminator is not packaged correctly and as a result is damaged in transit. The laminator you have purchased comes with a 1-year warranty on defective parts. **THIS DOES NOT COVER** any jams, misfeeds or wrap arounds caused by operator error and you will be liable for the repair costs (including delivery charges) if the damage is caused by operator error.

