

Product instruction manual

Matrix Pneumatic Laminating Systems

MATRIX[®]

PNEUMATIC



The Matrix 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.

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Specifications	MX-370P	MX-530P
Max. Laminating Speed (m/ft/min)	10m/33ft	10m/33ft
Max. Lamination Film Width (mm/inches)	340mm/13"	510mm/20"
Minimum Paper Thickness (gsm/lbs)	135gsm/90lbs	135gsm/90lbs
Maximum Sheet Width (mm/inches)	420mm/17"	550mm/22"
Warm-up Time (mins)	10	10
Temperature Range (°C/ °F)	0-140°C/32-284°F	0-140°C/32-284°F
Power Supply (V)	220/240	220/240
Power Supply Required (Amps)	13	13
Power Consumption (W)	2200	2400
Overall Dimensions - Width (mm/inches)	800mm/31"	900mm/35"
Overall Dim. - Depth x Height (mm/inches)	1800x1400mm/71x55"	2050x1400mm/81x55"
Gross Machine Weight (kg/lbs)	190Kg/419lbs	220Kg/485lbs
Warranty	1 year	1 year

If you are using your own air supply please note the following:



Introduction

Thank you for purchasing the Matrix Pneumatic laminator.

Pneumatic can run up to twice the speed of our standard systems. Printers can laminate work even faster to get the job finished and back to the customer.

Pneumatic pressure rollers allow you to laminate certain substrates up to 50% quicker, saving both time and cost.

Please read these instructions carefully before starting to use the system to ensure you get the best results and are competent at operation.

Should you experience any problems please contact us and we will be happy to help.



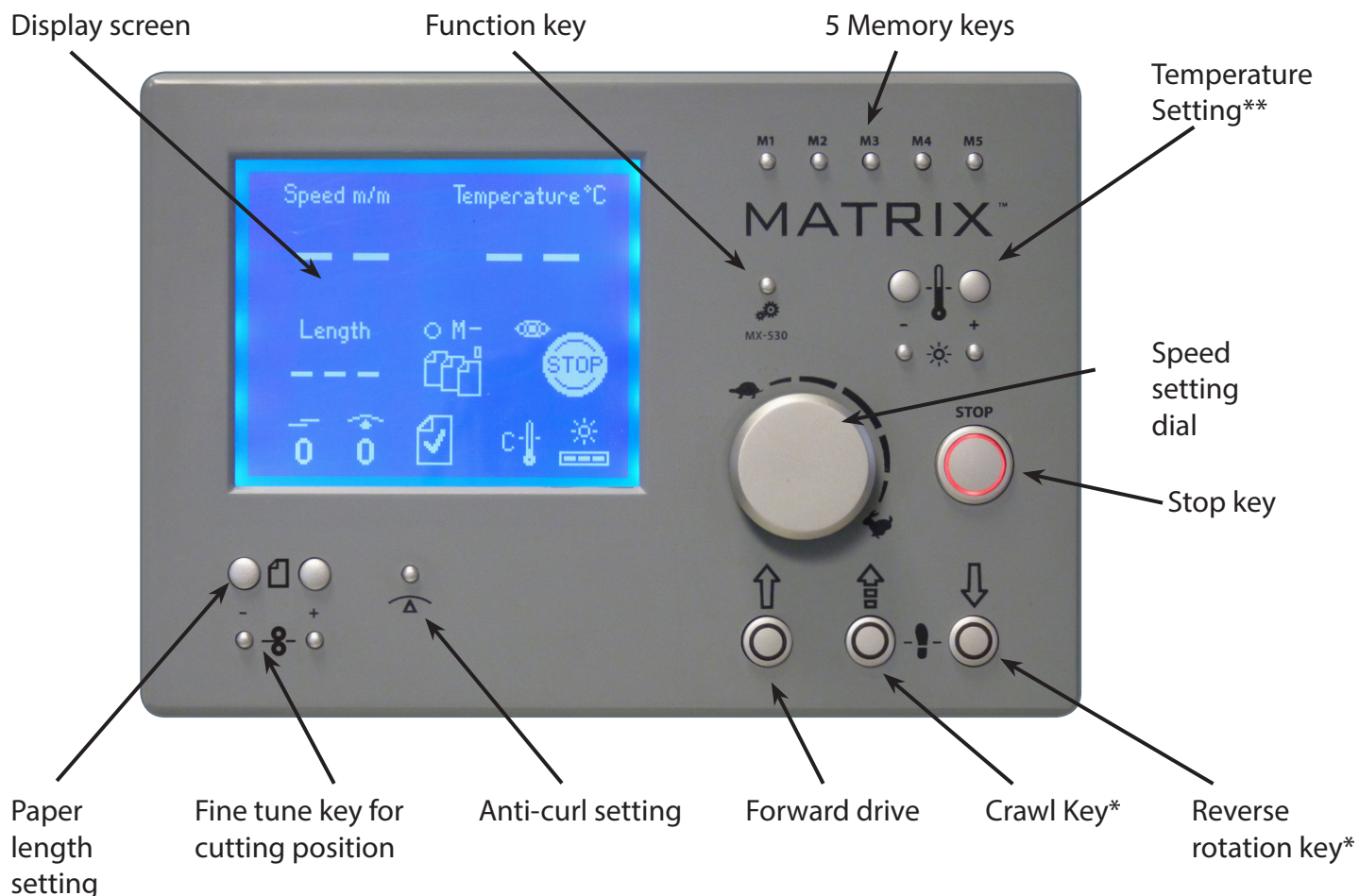
Safety Instructions

- Please ensure that the voltages of power supply you are using match with rated working voltages before operating the system
- The power supply should be close to the system for convenient use
- The power supply should provide reliable protective earthing connection
- This system must be earthed reliably so as to ensure the safety of the system during operation
- Only the operators of this system 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 system
- Please do not spray water or other liquid on the system 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 system 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 the system after laminating to avoid misuse
- At the end of the working day always gape the rollers to ensure no flat spots or distortions occur
- When you need to move this system, please shut down the power switch and pull out the plugs
- Please be aware of the location of the wheels during moving or operating the system to avoid foot injuries
- Always ensure the system is positioned on a flat and level floor
- Please shut off the power supply (pull out the power plug) when the system isn't going to be used for long periods of time.
- Please be cautions of the foot pedal when operating and moving the system. As this could be a trip hazard.

Environmental Requirements

- Ambient temperature 10°C - 60°C / 50°F - 140°F, 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 system
- Please do not keep the systems in direct sunlight
- Please do not keep the system in or around dusty areas
- Enough space should be kept around the system to ensure the secure and effective application. The minimum holding areas are 2.5 x 3m / 8x10ft

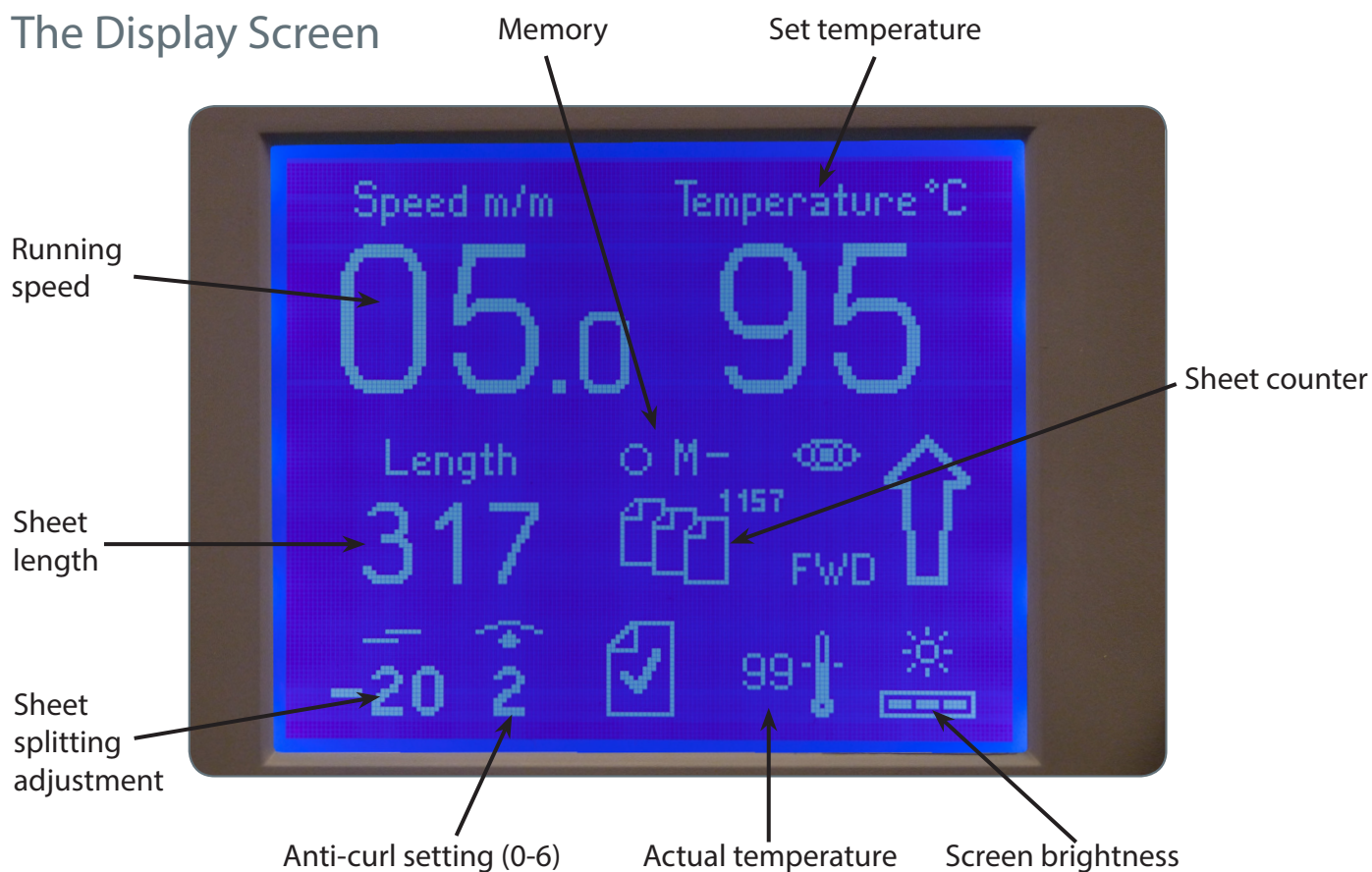
The Control Panel



* Functions with foot pedal only

** Temperature settings are also used to scroll through setup screen information

The Display Screen



Settings quoted are a guide only and may need adjusting depending on stock used and amount of toner on prints

Set-Up & Installation of Laminating Films



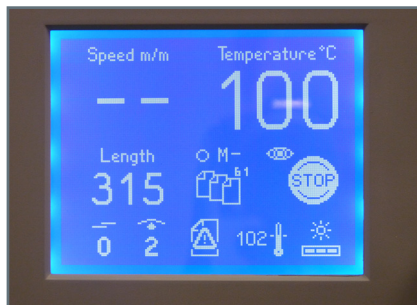
1. Position the machine near a suitable 13 amp socket and plug into the mains.



2. Turn the power on.



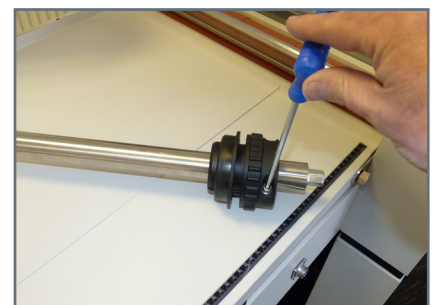
3. Screen displayed, see large screen diagram for functions on page 5.



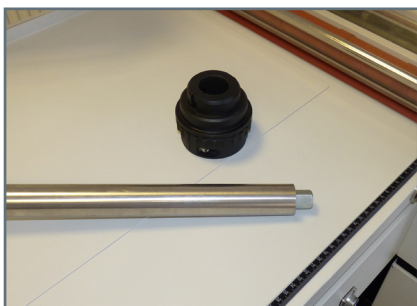
4. Set temperature, sheet length and anti-curl setting.



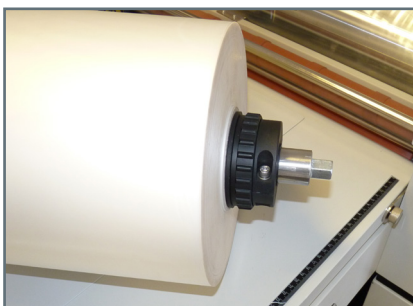
5. Remove film mandrel.



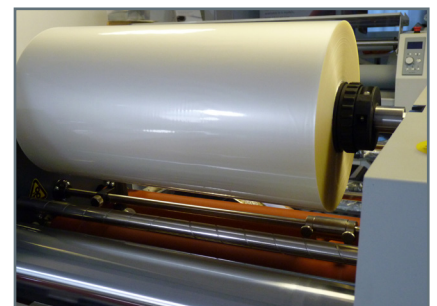
6. Using the allen key provided, loosen screws on the core adaptor.



7. Remove one core adaptor.



8. Slide film onto the mandrel and centralize, replace core adaptor.



9. Place film and mandrel back onto the machine.



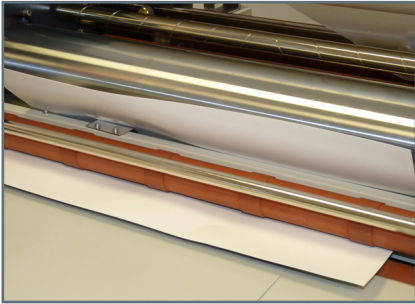
10. Ensure film feeds from the bottom of the roll.



11. Set the anti-curl device to the zero position and ensure both laminating and pull rollers are in the raised position.



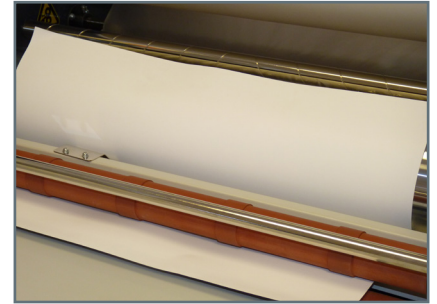
12. Press rubber roller to drop gate and slide in plain print, ensure it goes through anti-curl device and into pull rollers.



13. Slide the second blank print around the steel laminating roller, through the anti-curl device and into the pull rollers.



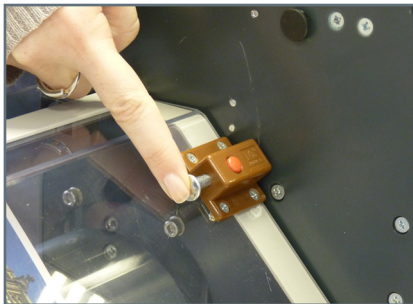
14. Run the film under the idler bar and drape over the steel laminating roller.



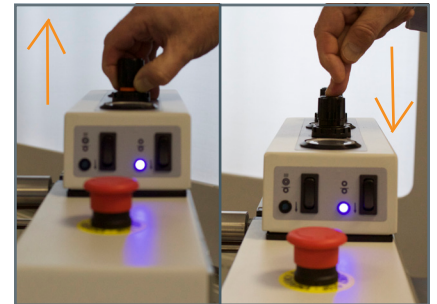
15. Press second set-up print onto the film.



16. Replace the guard.



17. Ensure the micro switch is located, otherwise the machine will not run.



18. You can adjust the pressure by lifting the control and turning clockwise to increase the pressure, and anti-clockwise to decrease the pressure. Push the control down to lock.



19. Laminating roller full pressure is 8 bar. Pull roller between 3-4. Please note these are guides only and for thinner stocks the laminating roller pressure may need to be decreased.



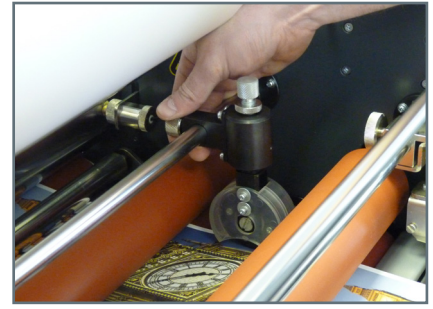
20. Press laminating roller switch. Roller will lower and light should illuminate.



21. Lower the laminating and pull rollers. Press pull roller switch. Roller will lower and light should illuminate.



22. Set the anti-curl to the desired setting - suggested starting position 2-3, if the print curls up increase the anti-curl number, if down decrease.



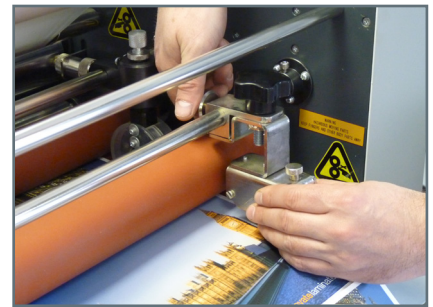
23. Set the perforation wheel, lock in place on the edge of the film which should be in the paper margin (and not on the print).



24. Turn the screw as the paper is feeding until the perforation wheel starts to turn, then lock into position.



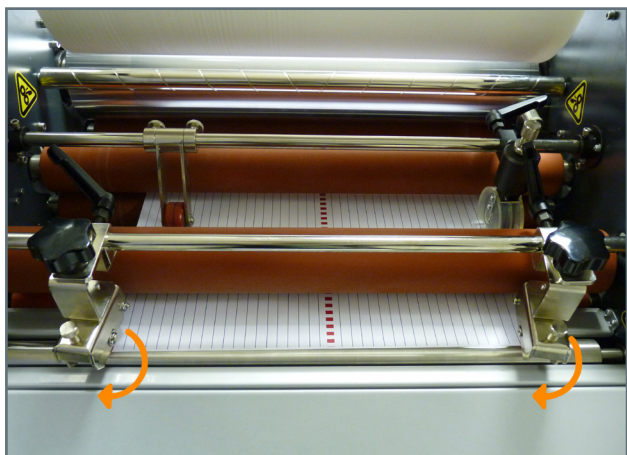
25. Set the guide wheel to the opposite side of the sheet from the perforation wheel.



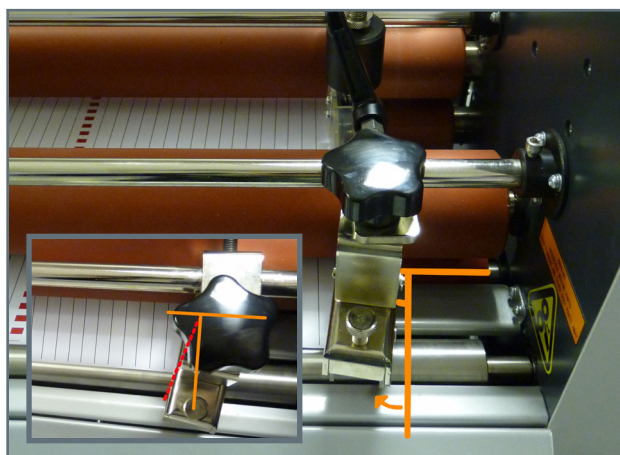
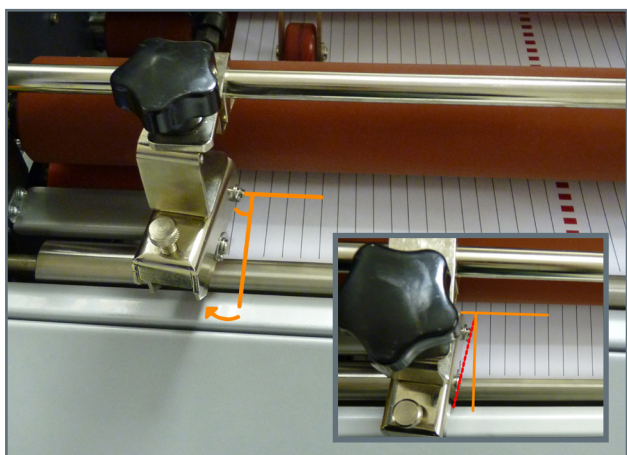
26. Finally, set the incline wheel on the edge of the print on the same side as the perforation wheel. Only a very small angle is required.

Setting the angles of the wheels

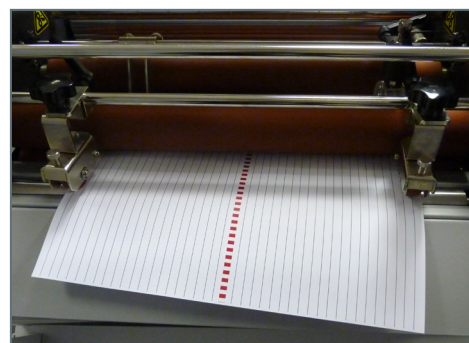
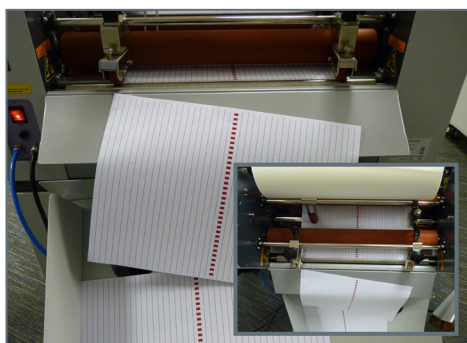
For successful sheet separation, it is important the rear angle wheels are set correctly. Various paper sizes and thicknesses will require different settings.



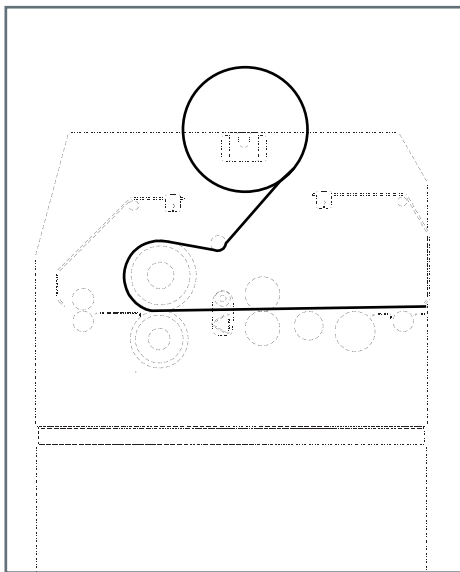
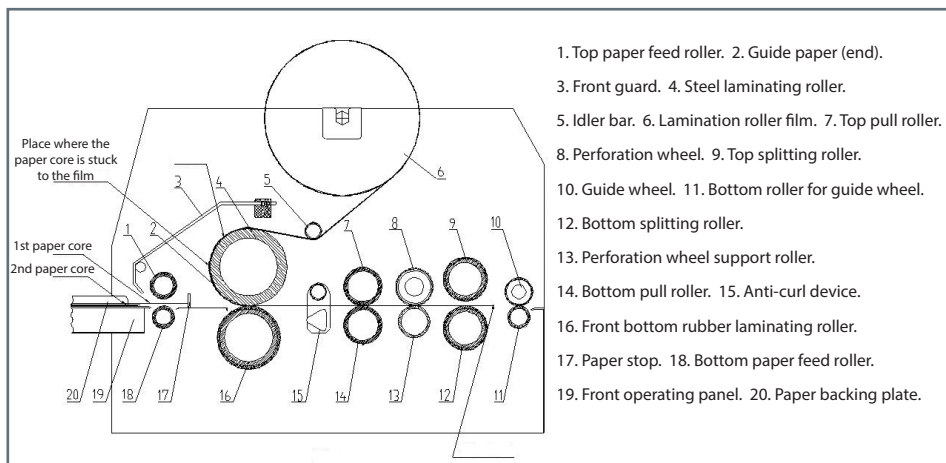
1. Position the wheels on each edge of the laminated sheet as shown.



2. Ensure sufficient angle is set to each wheel. NOTE: WHEELS NEED TO BE ANGLED AWAY FROM WHEEL PERFORATOR.



3. Sheet should now feed and separate as shown above.



THREADING DIAGRAM

Troubleshooting

ANTI-CURL



If your sheet curls up once it has left the laminator, you need to apply more anti-curl.



If your sheet curls down once it has left the laminator you need to apply less anti-curl.



If you are unable to adjust the anti-curl lever, try releasing the pressure on the pull rollers. Always ensure the manual setting on the lever matches the display  on the screen.

SHEET SEPARATION

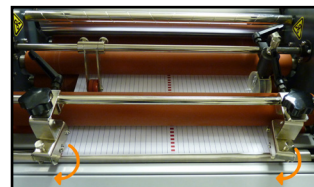
If your sheets do not separate 100% of the time, here are the solutions:



Ensure the perforation wheel is set over the laminating film as shown and that there is sufficient pressure applied.



Ensure the manual setting on the anti-curl lever matches the setting on the display screen.



If the above settings are correct, please adjust the angled wheels until a successful separation is achieved.

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Additional note: Please ensure the top and bottom films are aligned left to right and the bottom perforation wheel is activated.

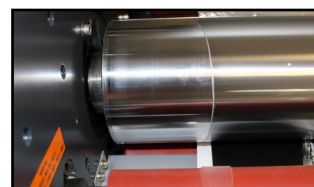
SPEED & TEMPERATURE CONTROL



Most BOPP/OPP films operate between 95°C and 120°C. Check your Matrix is at the set temperature before you start to laminate.



If your print is silvery, has a cloudy finish or the film has not totally bonded to the paper, you are running the Matrix too cool or too fast.



If your print appears blistered or the film has shrunk significantly as it passes over the laminating roller, you are running the Matrix too hot or too slow.

Please remember, when you begin to run the laminator faster, the film will have less time on the heated roller. Therefore you must increase the temperature setting.

We always recommend you laminate a test sheet first to check the bond and flatness.

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.

E&O.E

Original Instructions

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St Georges House, Whitwick Road, Coalville, Leicestershire LE67 3FA England

