

Laminator

EASYLAM

160 C

Operating instructions



Please read this operating instructions before installation and keep this for later use

technical information

model.....	EASYLAM 160C
length	205 cm
width	57 cm
height	140 cm
height working area	100 cm
max. media width	169 cm
usable roll length	1620 mm
max. opening of rolls	40 mm
power supply	110 - 230 V
.....	50/60 Hz max. 4,5A
power supply internal usage	24 V max. 4,5 A

INSTALLATION

The laminator is delivered in wooden box.

size

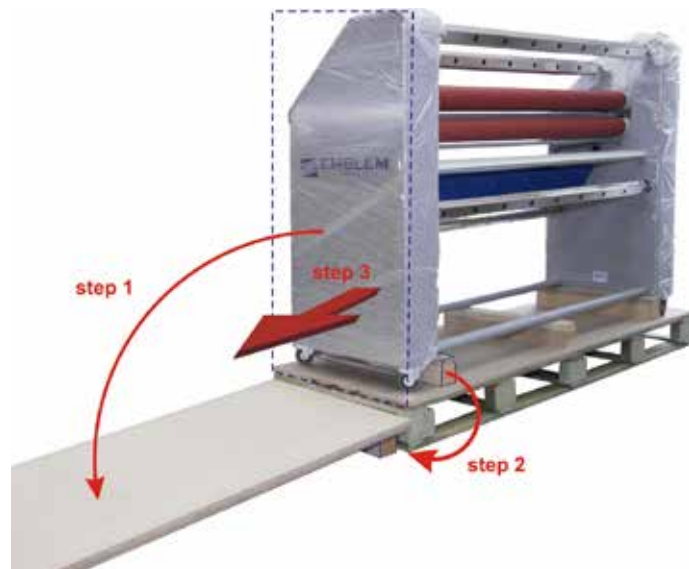
size	215 x 164 x 72 cm
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weight in total kg

weight in total kg	300 kg
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To open the box we recommend to use a cordless screwdriver. Further you need a open-end wrench, size 17





Further advises for installation:

Power supply:

The connection sockets have to be close to the machine.

- single-phase current 110 V - 230 V
- frequency: 50 – 60 Hz
- strength of electric current: 5 A

Location

The location to place the machine must provide enough space to work. Don't forget that space is also needed to insert and remove the material. Please consider the dimensions of the pictures and sheets used.

Place

Prepare a flat location suited to the size of the machine and also consider its accessories.

Lighting

Good lighting (300 – 600 lux) is indispensable to operating and maintaining the machine safely.

Room properties:

The laminator has to be placed in a closed room and has to be protected against weather effect.

- Permissible room temperature: 18°C to 35°C.
- Humidity range permitted: 30% to 80%

Electricity connection

Check that the electrical supply corresponds with the machine performance.

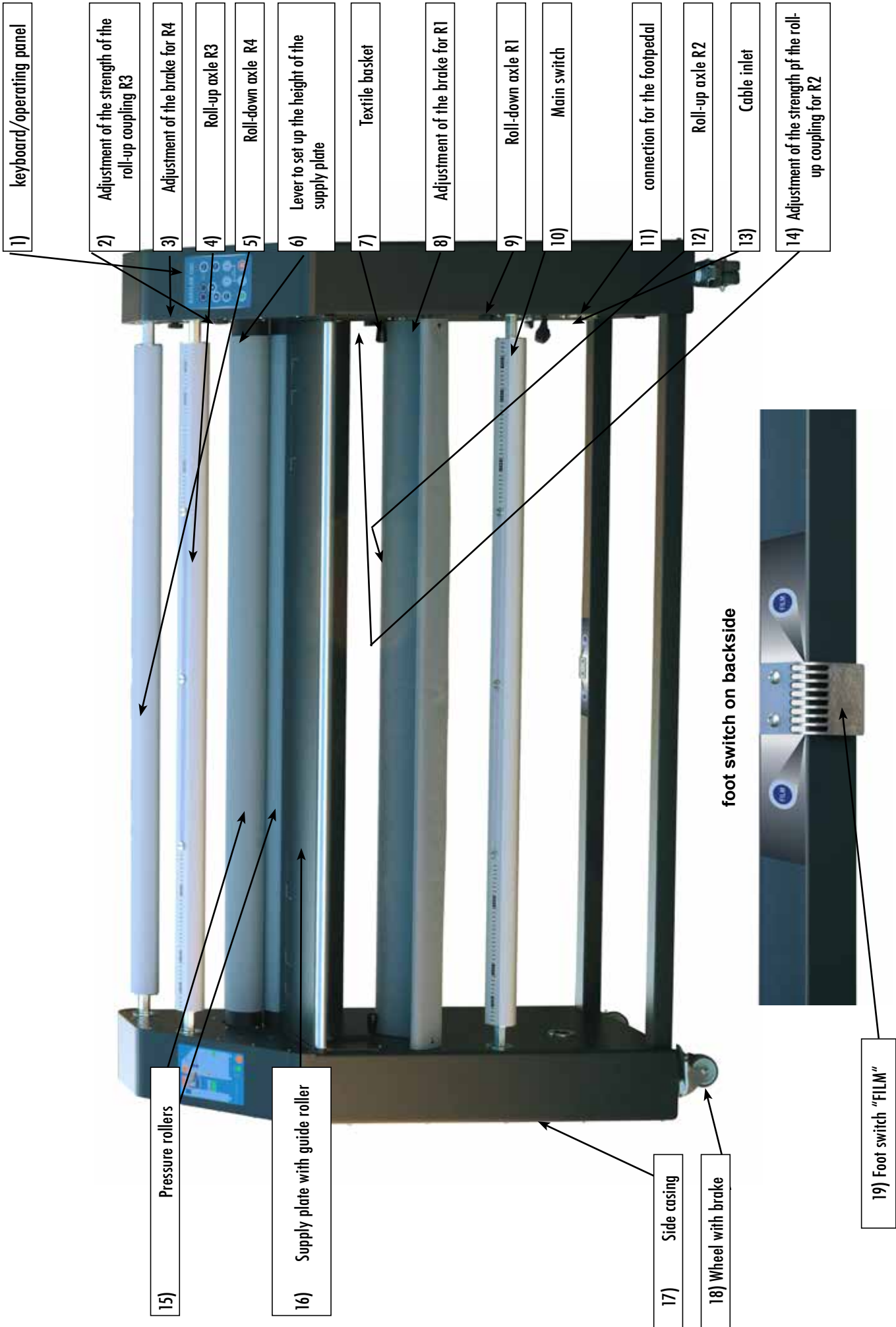
With connecting to the electricity supply, the laminator must be earthed.

To connect the laminator with electric supply system:

- Interrupt the current supply.
- Connect the connection cable to a suitable plug or directly to the main (capsule rail, junctionbox, etc.).
- Turn on the electricity with main switch (10).


Test before use

Before the actual initial operation, carry out a few test runs of the different functions of the device.



The keyboard:

The laminator is controlled (apart from footpedal) by the following keyboard:

- 
- MANUAL CLOSE key
 - MANUAL OPEN key
 - OPEN key for automatic open of the rollers
 - START/STOP – Start and stop running the rolls.
 - REVERSE – the machine stops and goes back (after 2 seconds).
 - SPEED 1 - 2,5 m/min.
SPEED 2 - 3,5 m/min.
 - FILM, FOAM - keys for preset modes of roller pressure.

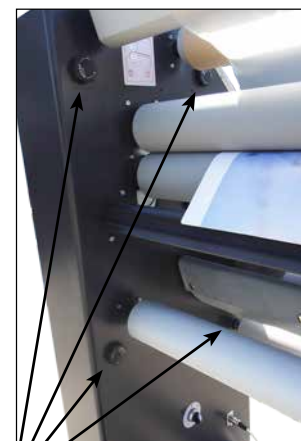
Safety devices

The machine includes the following safety devices:

- Left safety cover
- right safety cover
- safety system (slip clutch)

Make sure that your hands do not get between the rolls while the machine is operating. EMBLEM EASYLAM EXPERT 140C is equipped with a safety mechanism which uses a slip clutch to stop the rotation of the rollers. In this way serious injuries or pinching of the fingers are avoided. During running the machine the user has to make sure that no parts of the body or other unknown objects get between the rolls. The manufacturing company will not accept any liability - especially in case of any mechanical or electrical alteration of the mechanism by the user.

The side covers are designed to protect the electric equipment of the machine and may be removed by qualified personal only or by service technicians authorised by the manufacturer.



● adjustable brakes and clutches

Operation of the machine

When you start working stay directly in front of the machine. The laminator has to be turned on with the main switch (right down, inside the machine). The main switch is lighted in green.

With the keys **SPEED I** or **SPEED II** you decide the speed of lamination. You can also use the footpedal to adjust the speed of the laminator.

General operation advice

Axles R1-R4 are equipped with adjustable brakes and clutches. All mediums have their own specifications, which differ by temperature, humidity, used glue, type of film and more. The best condition is, when the lamination film is tensioned at the upper roll and can be applied without wrinkles. To find the best adjustment you start with low brake condition. If necessary you can increase the break power. We recommend not to use too much brake to get not too much tension. The lamination film would warp too much and the laminated product would get too much tension. Using the take up for liner you need low tension. Please notice to adjust the clutches properly.

Operation of the machine

The machine may be used only by trained and qualified personnel.

To set the pressure correctly you can either use the pre-set functions „FILM“ or „FOAM“. You can use also the manual function with arrow-keys up or down. „FOAM“ is for foam boards or other not rigid media. „FILM“ is for paper, film and self adhesive vinyl. To get the correct right pressure, we recommend to make tests sample. To close the rolls you can use the foot switch on the backside.

When the roller pressure is exceeded to a damaging extent, the machine stops automatically.

To avoid tension and pushing, the material to be worked with should be placed in the middle, i.e. at an equal distance from both sides; the same applies to small formats (e.g. for a roller width of 1,450 mm and a material of 450 mm).

When laminating thin foils or paper, it is important to choose the width of the laminate according to the dimensions of the picture. It should not protrude too far over the print to be laminated as otherwise it could stick to the lower roller. It is perfect if the paper to be laminated or the base is bigger than the laminate to be applied.

If this is not possible, the size difference between the laminate and the paper has to be kept as small as possible (no more than 2–3 cm per page) to avoid creases.

Material supply

The media axles (R1 - R4) could be equipped with lamination film, liner or double sided adhesion film. To place the axes, please notice the pictures and the following descriptions:

Inserting the scroller

The scrollers are hexagonal and can be pushed on left side into the bearings. It necessary to use some power because you have to work against some spring force.

Inserting the scroller



Push the axle to left all the way to the stop and keep position

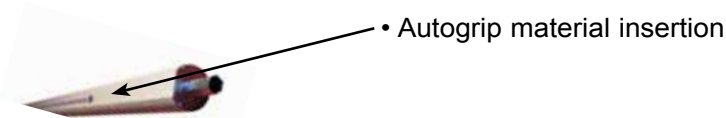
Move out the axle right out of bracket and move it to front

Get out the axle from the left bracket



Autogrip-material insertion

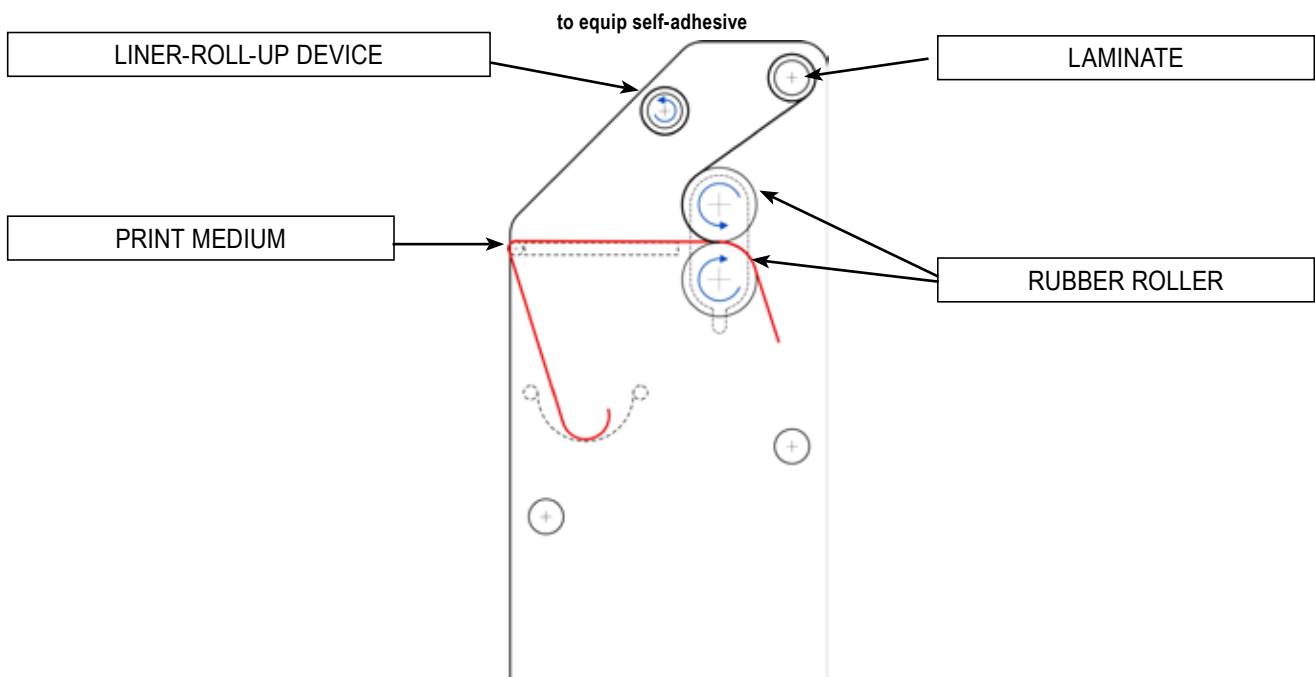
Move the scroller into the core of media, you want to use. The autogrip-material support makes it easy to move it inside. As soon the laminator motor will drive this scroller, the core is fixed automatically and will rotate with the scroller.



Operating principles:

Adhesives without protective liner (application tape, double-sided adhesive film):

- Open the lamination roller by pressing the button OPEN key and put on the laminate flatly. Ensure that the film is completely flat on the roller and there are no folds or waves. Secure the film by fastening (tape) it slightly onto the back workspace.
- Use the button MANUAL \uparrow/\downarrow to put the upper roller about 1 cm off the lower roller. Meanwhile the foil might come loose during this time and no longer stick to the roller perfectly. Pull the foil straight again so that it is slightly under tension.
- After you have put the base to be used under the laminating roller, use \uparrow and \downarrow to adjust the rollers completely to position 0 or use „FOAM“ or „FILM“ to shut the rollers or use the foot switch on backside. If the print medium is not stiff, put on the laminate that it extends to the work surface via the rubber roller and the slit so it sticks when the machine starts up.



EASYLAM-CUTTER

To equip your laminator with lamination film in a simple and economical way we recommend our EASYLAM-CUTTER (Art.-Nr.: 24959).

Its knife has a special blade to minimize the danger of getting hurt or of damaging the rolls considerably.

Advantages:

- you save time and material while inserting the lamination film including liner
- no exposed knife point

The following description of the procedure allows an economical consumption of the lamination film while equipping the laminator with foil. The cutter simplifies the preparation of the machine and helps to learn it faster.



You can get this tool at your local dealer or at www.dataplot.de.

Place the lamination film between the rollers



Hold the film tight and clamp the rollers



Make sure the lamination film is rolled tight



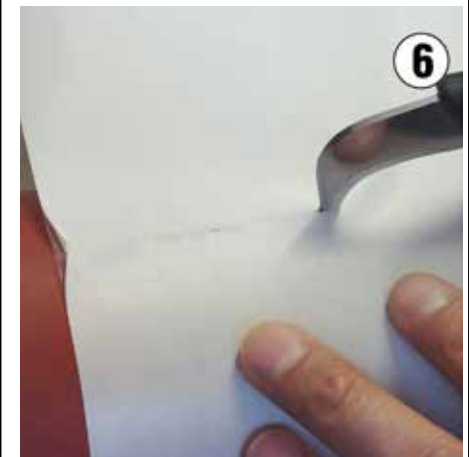
Feed forward approx. 5cm of lamination film



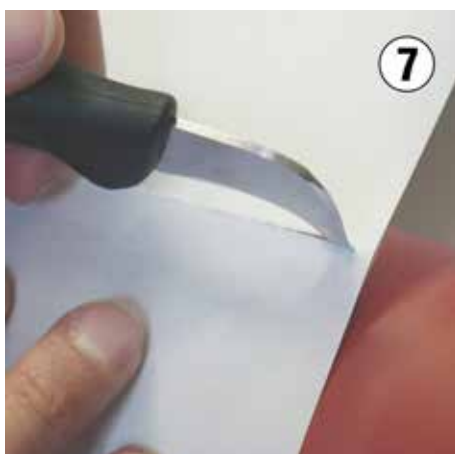
Position the blunt part of the knife between film and liner



Cut the liner carefully



Use the sharp end in front of the knife too



Fix the liner to the core



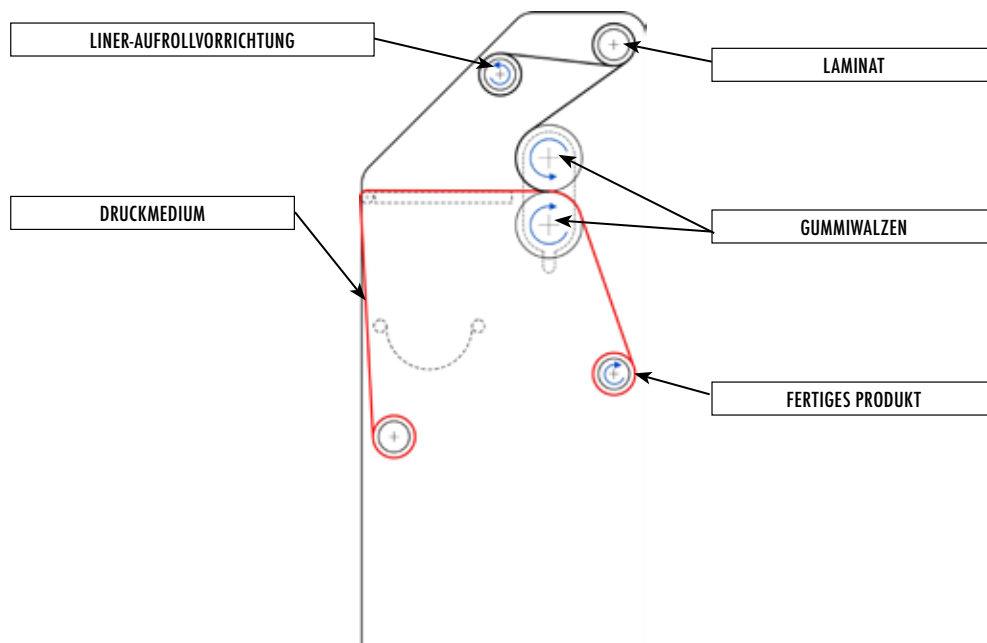
Start Laminating



Laminate with backing paper:

- Open the lamination roller by pressing the button OPEN key and put in the laminate as shown in the picture. Push an empty roller core onto the roll-up axle R3 so that the protective liner/backing paper can be rolled up.
- After you have attached the laminate to the roll-down axle R4, separate the backing paper and use tape to fasten it to the cardboard core on the roll-up axle R3. Ensure that the protective liner has been fastened uniformly without cross creases. Pull the laminate between the rollers and stick it onto the upper roller with tape. When doing this ensure that the foil is spread out evenly across the whole width. If there are creases or folds, repeat the steps until the material is perfectly positioned.
- By adjusting the coupling of the roll-up axles the pull of the R3 axle can be stopped. Only a small amount of power is required to roll up the liner. Therefore, do not select a very high value.
- The required breaking power is normally low unless the protective liner has much more power than the vinyl. In this case the tensile force has to be increased accordingly.
- Use the button MANUAL \downarrow/\uparrow to put the upper roller about 1 cm apart the lower roller. The laminate might come loosen during this time and no longer stick to the roller properly. Correct the film again.
- Put the print to be laminated between the laminating rollers as shown in the picture. Use \uparrow and \downarrow to adjust the rollers completely to position 0 or use „FILM“ or „FOAM“ to shut the rollers or use foot switch at back side.
- Release the film that you have fixed with tape to the upper roller and start running the machine.

Laminating with backing paper:



Mounting on rigid boards with EASYLAM

There are different technics professional users execute. First you have to face two requirements:

- a) Mounting a print on a self adhesive board
- b) Mounting a self adhesive print on board

General:

Open the gap between the axles at that high of the board.

Adjust the high of the supply plate to the high of the board.

Move the board between the axles and close the gap by "FILM"-key.

Remove the board outside by using "REVERSE" – key.

Now the gap is adjusted.

For requirement a) Mounting a print on a self adhesive board

Pull of 3-4 cm of the liner of the adhesive board and stick the print to the board manually.

Move the board between the axles and place print on top of the upper axle like shown in graphic I.



Start mounting by some push of the board to move between the axles and push "start"- key.

Move away liner manually during mounting process.

For requirement b) Mounting a self adhesive print on board:

Pull of 3-4 cm of the liner of the self adhesive print and stick the print onto the board manually.

Move the board between the axles and place the print on top of the upper axle like shown in graphic II.



Start mounting by some push of the board to move between the axles and push “start”- key. Move away liner manually during mounting process.

Alternative technique:

Place the print on the board

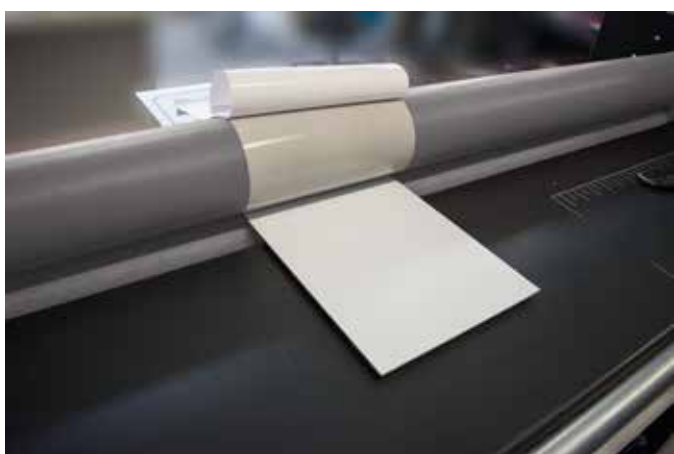
Move this both into the open axles in the middle of the board and close axles to fix position of board and print. Print should be some larger then board to adjust easy.



Cut the liner of one half of the self adhesive media and mount this half by using the laminator pushing “start” key.



Turn around and insert the board again.



CE DECLARATION OF CONFORMITY

Us, **DATAPLOT GmbH**
 Gutenbergstraße 15
 24558 Henstedt-Ulzburg

Company manufacturer of the brand EMBLEM, declares under our own responsibility, that the machine:

Brand: **EMBLEM**
Model: **Easylam Expert 140C**
 Easylam Expert 160C
 Easylam 160W
 Easylam 160C

is in conformity with:

The requirements of EU Directive 2006/42/EC.s
The requirements of EU Directive 2004/108/EC.
The safety requirements of EU Directive 2006/95/EC.



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