

Product instruction manual
Linea DH-360, DH-460 and DH-650

linea.TM



The Linea 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.

Thank you for purchasing the Linea. Please read through this instruction booklet carefully and keep it safe in case needed for future reference.

Contents

Page 2 - Safety precautions
Page 3 - Machine parts and stand (options extra) assembly
Page 4 - Control panel and functions of digital display
Page 5 - Operating instructions
Page 6-8 - Loading/threading the film
Page 9 - Cleaning and maintenance
Page 9 - Troubleshooting
Page 9 - Specification chart
Page 10 - Warranty and incorrect use

Safety Precautions



WARNING

Do not use the machine if the power cord is damaged in anyway. Do not use a power supply that is not in accordance with the rated voltage.



NO DISJOINT

Do not try to disassemble, modify or repair the machine yourself. If you encounter a problem you must call a qualified engineer.



ENTANGLEMENT CAUTION

Keep long hair, loose clothing and items such as ties and jewellery away from the rollers of the machine at all times to avoid danger of entanglement. If entanglement occurs, press the REVERSE button or cut off the power immediately.



ELECTRIC SHOCK CAUTION

Keep water and liquids away from the machine at all times. Do not operate the machine with wet hands. Do not cut off the power to the machine whilst in operation (except if entanglement occurs). Use the safety guard at all times.



HIGH TEMPERATURE CAUTION

The Linea works at a high temperature, therefore ensure you do not touch the rollers or any part of the machine which states 'HOT' or 'CAUTION' whilst it is in operation. Do not cover the machine if it is still cooling down. Do not laminate any material other than what is stated in this manual and do not use any lamination film other than what is recommended for this system.

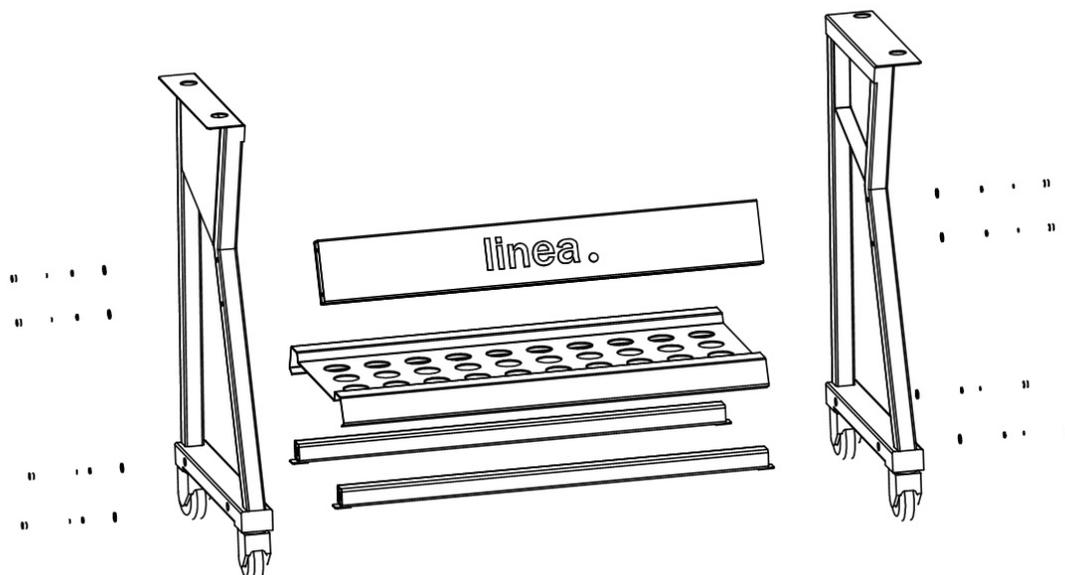
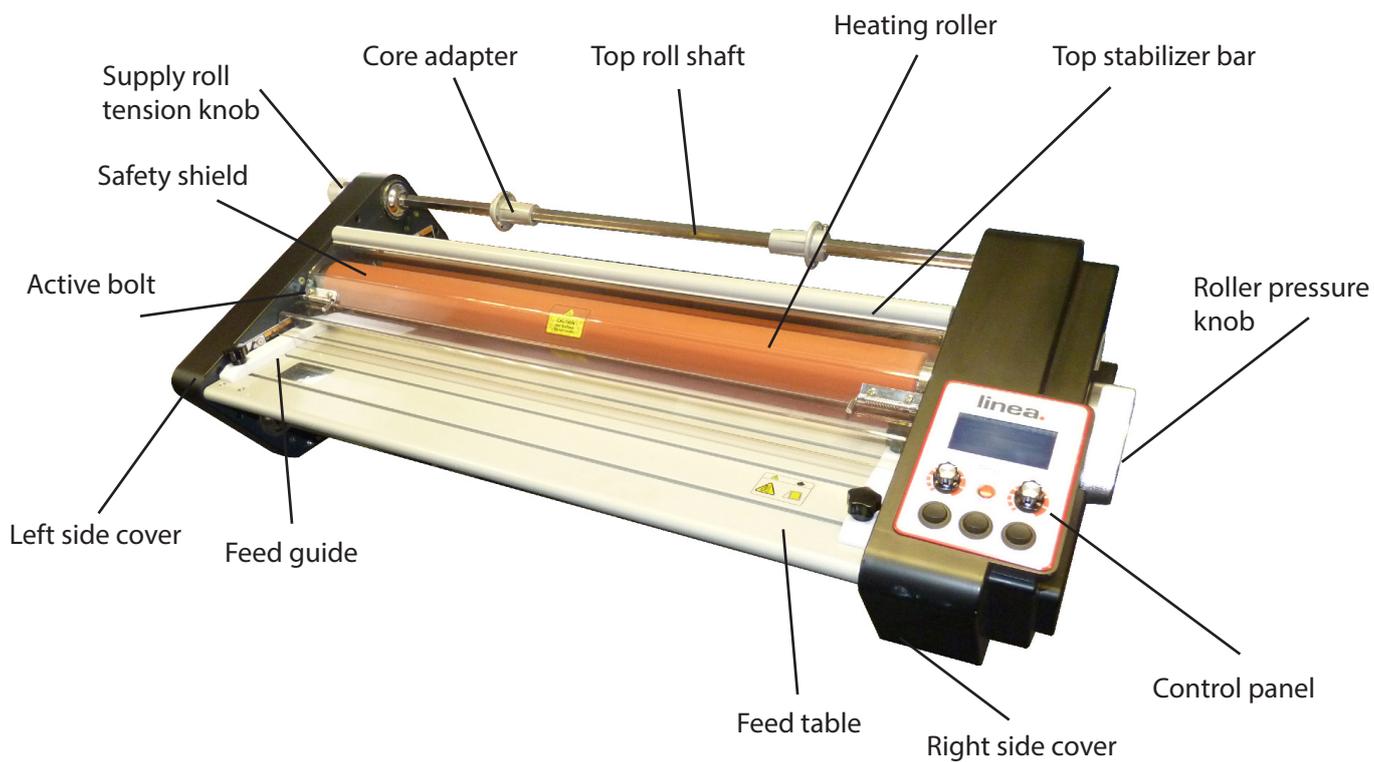
Further advice

Operate the machine in a well ventilated, clean, dry place with a large enough working space at the front and rear of the machine.

Ensure the power cable is not dragging on the floor or causing a hazard to operators.

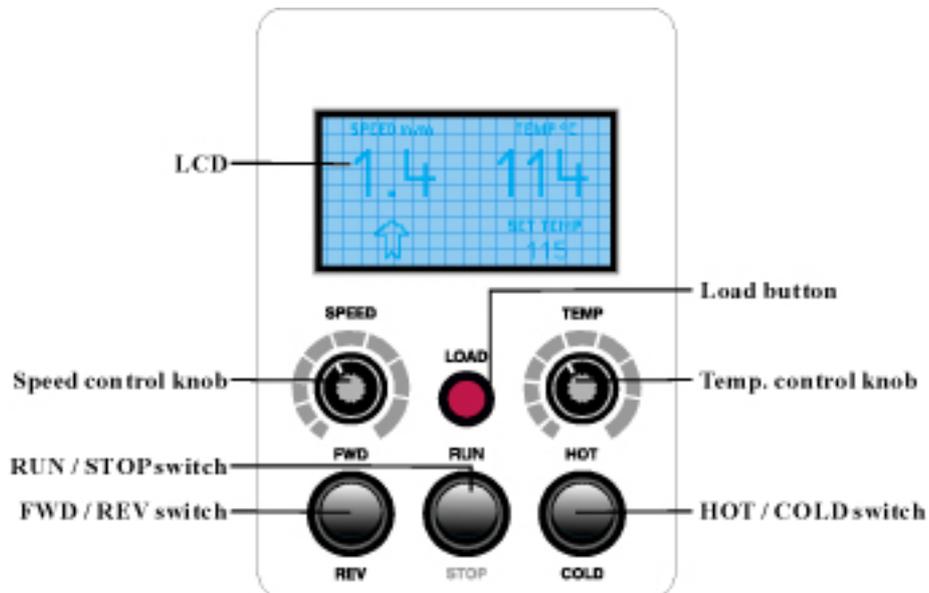
For producing the top quality results that this machine is designed to do, you must use high quality lamination film. BOSS film is the suggested brand by the manufacturer.

Machine parts and stand assembly



Stand assembly
(Optional with DH-650)

Control panel and functions of the digital display

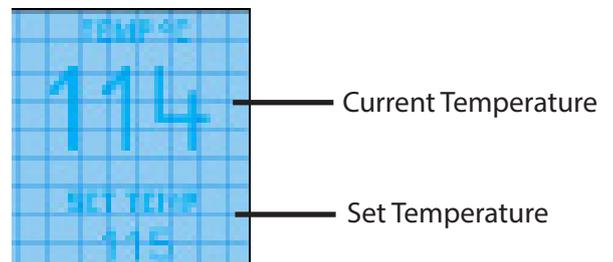


Temperature control

The temperature setting you require for laminating can vary and can be effected by many different factors, these include thickness of media, thickness and construction of laminating film, speed of the machine and temperature and humidity of the room you are working in. Please refer to the guide at the bottom of this page if you need help. Always use a test print to send through the machine before starting to laminate your work.

The temperature control dial will increase or decrease the set temperature as it is turned and the set temperature will show on the LCD display. The current temperature of the rollers will also be displayed on the LCD display.

The temperature ranges from 0°C-140°C. If the temperature reaches 140°C, the over heating protection function will automatically activate to prevent the machine getting any hotter.



Approximate temperature guide

This chart is a rough guide only and should NOT be taken as an exact indication of the settings for your laminating job. As previously stated, many different factors can effect the temperature and speed required. The supplier does not accept responsibility for incorrect settings being applied.

Encapsulating		
Example film	Approx temperature	Approx speed
75 Micron	105 °C - 110 °C	0.8 - 1.0m per min
125 Micron	105 °C - 110 °C	0.8 - 1.0m per min (decrease speed for thicker documents and increase the temperature slightly)

Speed control

The speed control function allows adjustment of the speed of the machine. This can be manually adjusted by turning the knob clockwise to increase the speed and anti-clockwise to decrease the speed. The speed can range from 0M per min to 1.4M per min

Hot and cold settings

To change the function of the machine to either hot or cold press the HOT/COLD switch. When it is switched to hot the set temperature will show on the LCD display. When it is switched to cold, COLD will show on the LCD display.

Forward and reverse switch

The FWD/REV switch changes the working direction of the motor. When it is switched to forward the motor will run forward and  will show on the LCD display. This function is used for laminating and encapsulating.

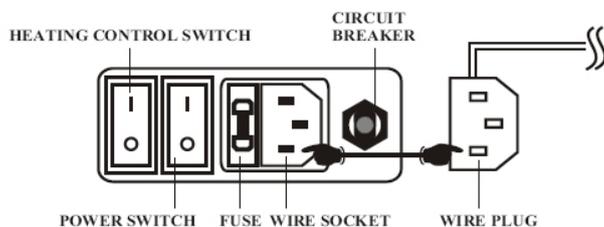
When it is switched to reverse the motor will run backwards and REVERSE will show on the LCD display. This function is used to remove items fed in incorrectly or by mistake - please note removed items will not be reusable

Run and stop switch

The RUN/STOP switch enables you to start and stop the motor. When it is switched to RUN the machine rollers will turn in the direction of the motor drive. If either the feed tray or guard are not in place, the machine will not drive, however, by pressing the load button the rollers will operate while the button is pressed to enable the film to be fed into the machine.

Operating instructions

Ensure the laminator is placed on a flat, sturdy work surface or on the assembled stand (optional extra). Check the power voltage for the machine to ensure this meets your own supply. Plug the power cord into the back of the machine and into your power supply. Contact your supplier if you do not have a power cord with the machine.



Turn on the power switch, the control panel display will light, this indicates the power is connected.

Motor overload circuit breaker

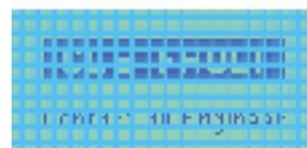
If the machine should jam in a way that the motor could be effected, the circuit breaker will cut off the power to avoid damage. Once the overload has been cleared, press the circuit breaker button and the motor will start again. The circuit breaker button is located at the rear of the machine next to the power switch. The button is red in colour.

Screen messages

Should the LCD display panel show the words OPN fault or CLS fault, there maybe a problem with your machine. In this instance, turn off the power and call an engineer.



Familiarise yourself with the control panel before commencing operation of the machine.



Loading/threading the film - Encapsulating

Please follow the step by step guide below to correctly load your film;

Remove the safety guard



Remove the feed tray by retracting the bolt



Remove the top mandrel



Completely unscrew the mandrel and cap



NOTE: Indents are drilled in the mandrels to locate core holder so top and bottom films line up



Core holder located on mandrel



Load the film onto the mandrel and make sure it is loaded with the film coming off the bottom of the roll with the adhesive side up. Tighten the screw back up with screwdriver provided



Refit the mandrel complete with the loaded film



Thread film from top mandrel down under top idler bar and over top laminating roller surface as shown (ensure film is loaded with adhesive side up)



Load film onto bottom mandrel in the same fashion as with the top mandrel, remove bottom mandrel as shown



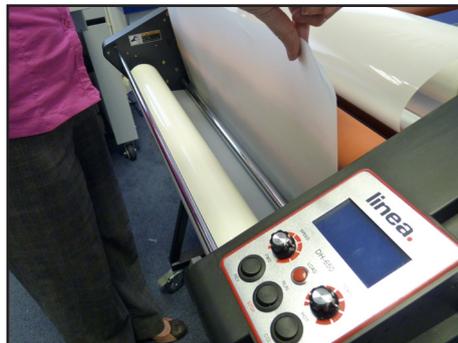
Move bottom stabilizer bar forward to assist film loading



NOTE: Ensure stabilizer bar is relocated in the back position when loaded



Load bottom film around roller bar as shown



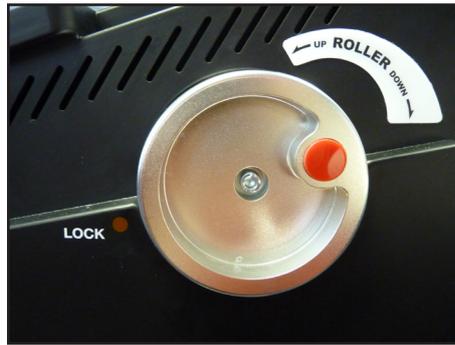
Bring top film down under idler bar and web the films together as shown overlapping the top & bottom film by several inches



Take a piece of cardboard insert it in between the rollers (in the nip)



Lift top roller by turning roller pressure handle anti-clockwise



Ensure the roller pressure is in the 'LOCK' position when running the machine

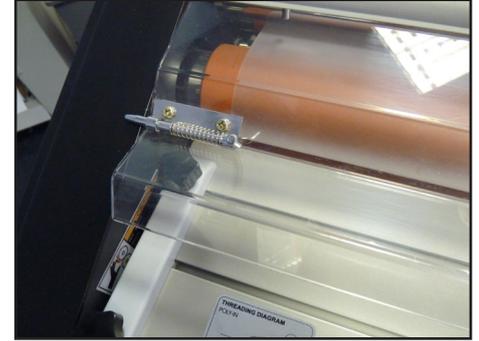


NOTE: SAFETY TRIP SWITCH

Re-fit the plastic safety guard -
With the guard and/or tray not in position you can put the drive switch to run and then by pressing the load button the machine will run forward when the load button is released the machine will stop

Please note: There is a trip safety switch which means that the machine will not work if the feed tray and safety guard are not correctly in place.

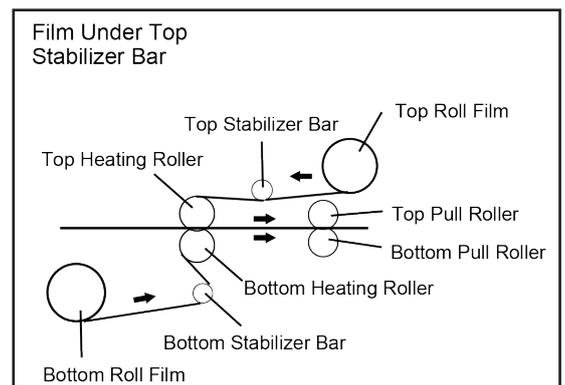
Re-fit the feed tray



Auto memory function

The linea has an auto memory function, that means if you work on the same roll of film, the temperature and speed will be set to the same settings as the last time the machine was used.

Film threading diagram -



Cleaning and maintenance of your machine

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 knob, 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 machine is hot (above 40°C). For easy access, remove the safety shield and feed tray. 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 machine in any way and there is a large build up of adhesive, do not try and remove this yourself, contact your supplier for advice.



Troubleshooting

My laminator has no power

Make sure that the electrical outlet being used is not damaged and that it is supplying power. Ensure the power cord is firmly fitted in the back of the machine and not straining in any way. If all of this seems correct, there are three fuses to check, one is located next to the power switch, the other two are located underneath the laminator. Contact your supplier if none of these solutions resolve the problem.

My lamination is coming out cloudy

This means that the temperature is not hot enough, try and increase by 5°C and wait until the laminator has reached the new temperature before putting through another print.

My lamination has come out wrinkled/creased

This means that the temperature is too hot. You should also put a test document through first to avoid ruining your work. Reduce the temperature by 5°C and wait until the laminator has cooled before trying again.

The film is wrapping around the rollers when I try to laminate

The film may be threaded incorrectly, refer to the threading diagram on page 6 or 8 (depending on if you are doing single sided or encapsulating). The adhesive side of the film may be facing the roller. Stop the operation, wait until the laminator has cooled down and thread the film again in the correct manner.

Specification chart

MODEL	DH-360	DH-460	DH-650
MAX LAMINATING WIDTH	340mm	460mm	650mm
MAX LAMINATING THICKNESS	5mm	5mm	5mm
MAX LAMINATING TEMPERATURE	140°C	140°C	140°C
MAX LAMINATING SPEED	1.4m/min	1.4m metres/minute	1.4 metres/minute
RECOMMENDED FILM	BOSS film, up to 250 micron	BOSS film, up to 250 micron	BOSS film, up to 250 micron
DIAMETER OF HEATING ROLLER	44mm	55mm	55mm
DIAMETER OF PULL ROLLER	30mm	45mm	45mm
POWER SUPPLY	100, 110, 220-240V, 50, 60Hz		
POWER	700W	950W	1600W
DIMENSIONS	620 x 420 x 310mm	720 x 520 x 400mm	910 x 520 x 400mm
WEIGHT	30kg	45kg	58kg
STAND	N/A	N/A	Optional Extra

Warranty & Incorrect Use

IMPORTANT INFORMATION

Your Linea Roll Fed Laminator should reach you in perfect condition, however please retain all original packaging once you have unpacked your Laminator as this system is covered by a return to manufacturers warranty. 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 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 one year warranty on defective parts and general wear and tear. **THIS DOES NOT COVER** any film jams, misfeeds or Film wrapped around the rollers caused by operator error and you will be liable for the repair costs (including any delivery charges).

The Laminator rollers are covered against manufacturing defects, they are not covered against any damages caused by misuse ie. being cut with a knife or damage from non Laminating incidences.

E&O.E

