



Air Cushion Machine Operation Manual

Shadow Boxer Mk2



The Shadow Boxer Mk2 is a lightweight, portable and easy-to-use air cushion machine. Its compact design suits small factories, warehouses and shops, and it makes bubble film, quilt, cushions and tubes on demand at speeds of up to 12 m/min.

Please read this manual carefully before installing and using the machine, and keep it safe.

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1.0 About this manual

This manual helps you identify the parts of the Shadow Boxer Mk2, understand how it works and solve basic faults.

Symbols used on the machine and in this manual:



Electric shock. Uninsulated parts. Touching them may cause an electric shock.



Float. Do not use inflated bags as a float.



Toy. Do not use inflated bags as a toy.



Pillow. Do not use inflated bags as a pillow.

2.0 Safety instructions

2.1 Read this manual fully

Please read and make sure you understand all the information in this manual before using the machine.

2.2 Before operating the machine, confirm that

- the operator has been fully trained by the authorised reseller;
- the operator has read and understood all the safety signs on the machine;
- the power supply meets the machine's requirements (see Section 10.2) and is connected to a safety earth.



Warning

Improper earthing may cause an electric shock.

Do not open the machine cover. Only authorised technicians or qualified, trained maintenance staff may remove it.





Warning

Take care when loading film. When the machine starts to pull the film, inflate it or seal it, keep fingers, hair, jewellery and clothing away from the sealing roller.

The sealing roller and seal line are hot. Do not touch the roller surface, as the seal line may cause burns.

2.3 Use of inflated bags

Inflated bags should be used only as packaging.

2.4 Before maintenance or repair

- Switch off the machine and unplug it from the power supply.

Important: the Shadow Boxer Mk2 is designed for use with Forever Green Packaging film. We support it for as long as it is being used with our film. See Section 12.0, Warranty and support.



Warning

Do not attempt any repair or modification other than those described in Section 11.0, Maintenance and repair. Repairs should be carried out by us, an authorised distributor or maintenance staff trained by us.

Open the safety cover only to replace the blade, belt or tape as shown in this manual.

2.5 Check the machine regularly to make sure that

- no wires are scratched, damaged or exposed;
- no debris is left on the belt;
- all controls and the display work normally.





Warning

If anything unusual happens, switch the machine off immediately, unplug it and contact our technical service team.

2.6 Noise

The maximum running noise of the Shadow Boxer Mk2 is below 95 dB. Please check that this is acceptable under your local regulations.

2.7 Environmental conditions

- Storage temperature: machine 0–43 °C; film 0–43 °C.
- Operating temperature: machine 16–43 °C; film 16–43 °C.



Warning

The film seals best within the temperature range above. Outside it, seal quality may suffer and the film may be damaged.

2.8 Potential risks

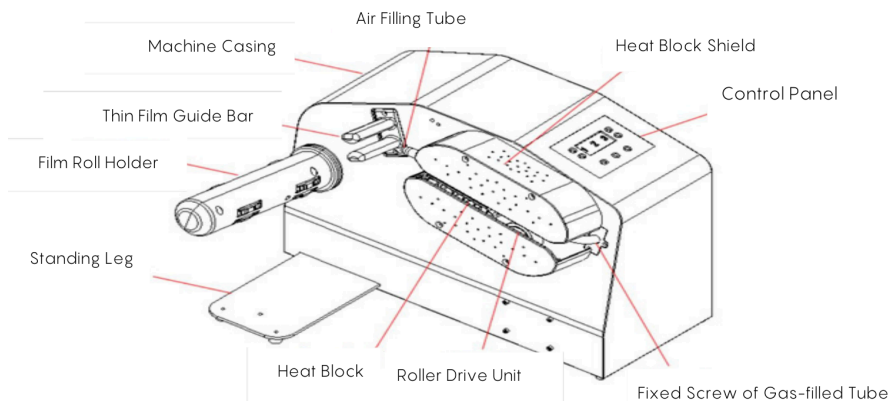
Most parts are covered by protective covers, but some parts remain exposed. Take care while the machine is running.

2.9 Certification

The Shadow Boxer Mk2 is CE certified.

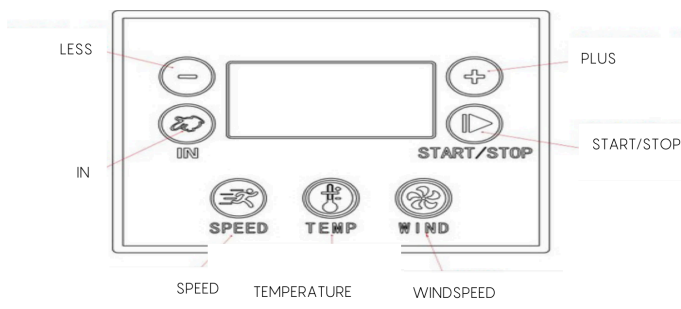


3.0 Shadow Boxer Mk2 overview



(Fig. 1)

4.0 Operation panel



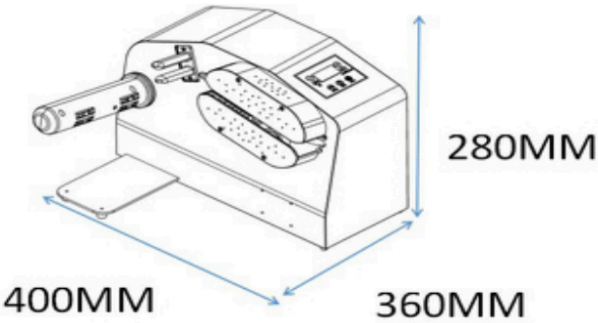
(Fig. 2)

- **SPEED, TEMP and WIND** (speed, temperature and air volume) with **PLUS** and **LESS**: set the machine values to suit the film.
- **IN**: feeds the film roll into the rollers.
- **START/STOP**: starts and stops the machine.
- **Display screen**: shows all the machine's parameters.

5.0 Specification

1. Appearance

Item	Value
Dimensions (L × W × H)	400 × 360 × 280 mm
Package dimensions (L × W × H)	480 × 270 × 360 mm
Net weight	5.2 kg
Gross weight	6.5 kg



(Fig. 3: overall dimensions)



2. Electrical performance

Item	Value
Model	Shadow Boxer
Rated power	240 W
Frequency	50 / 60 Hz
Speed	Up to 12 m/min
Input voltage	AC 110 / 220 V
Heat-seal temperature	160–220 °C
Air volume	Up to 280 L/min
Electric shock protection class	I





6.0 Installation and operation

6.1 Fit the film shaft in the position shown in Fig. 1. Use a screwdriver.

6.2 Connect the power cable and switch on the power.

6.3 Put the film roll on the film shaft.

6.4 Pass the film over the feed rod and pull it to the middle of the belt, then press the **IN** (auto-feed) button.

6.5 When the film has been pulled out of the machine, press **START** to inflate.

Error codes

Code	Meaning
LLL	No temperature sensor, or sensor disconnected
H-1	Heating element fault
H-2	Motor fault
H-3	Air blower fault
H-4	Temperature fault

When an error code appears, please contact your authorised distributor or a service technician.

7.0 Recommended settings

These are starting points. Speed and air volume must be matched to the film you are using (see 9.8).





Film type	Size	Temperature	Air volume setting	Speed setting
200mm x 100mm Cushion	20 × 10	180 °C	25	100
200mm x 200mm Cushion	20 × 20	180 °C	35	100
400mm Bubble (8 Row)	40 × 17	180 °C	200	100
400mm Quilt (4 Row)	40 × 32	180 °C	170	80

* Please contact us for settings for any films not listed here.

8.0 Machine structure

8.1 Main power switch. On the back of the machine. Turns the machine on and off.

8.2 START/STOP and IN buttons. START/STOP starts and stops the machine. IN helps feed the film roll into the rollers.

8.3 Power cord. Plug it into a suitable outlet. See Section 10.2 for the power requirements.

8.4 Control panel and display. The buttons set the machine's values. The display shows all parameters.

8.5 Side seal cover. The machine's working parts are inside.



Warning

Do not open the side cover. We recommend that only our representatives and authorised maintenance staff do this.

8.6 Film roll holder. Holds and supports the film roll during installation.

8.7 Side sealing module. Holds the air pipe, blade and heating module, which inflate and seal the bags.





Warning

The roller is very hot: risk of burns.

Keep clear of the rollers so you are not drawn into the machine.

8.8 Film roll. Film with air channels, which the Shadow Boxer Mk2 inflates and seals.

9.0 Important points

9.1 Do not use the machine in a humid environment.

9.2 Before operating the machine, note the following:

- If the machine is not properly earthed, it may cause an electric shock.
- Do not open the protective or inspection cover. Only our service staff or authorised dealer service staff may open it.
- During operation and film loading, keep fingers, clothing, jewellery and hair away from the roller. Tie long hair up.

9.3 Inflated bags are for packaging only. Do not use them as floats, pillows or toys.

9.4 Do not load film rolls heavier than 5 kg. Do not press hard on the machine when loading film, and do not lean on it.

9.5 The machine and the film generate static electricity while running. The operator should not work barefoot or wear loose, dragging clothing, as this can cause uncomfortable static shocks.

9.6 If the film runs unevenly or sticks after long use, replace the blade promptly.

9.7 If the seal edge looks weak or broken after long use, check the temperature setting and the heating belt and tape, and replace any that are damaged.

9.8 Speed and air volume must work together. Different films need different settings, and there are no fixed values, so adjust them to suit your film.

9.9 Do not run the machine without film loaded.



10.0 Power and film

10.1 Earthing



Warning

Improper earthing may cause an electric shock.

Using an extension lead or power strip increases static electricity, which can cause operating problems and uncomfortable shocks for the operator.

10.2 Power requirements

The Shadow Boxer Mk2 needs an AC supply of 110 / 220 V, 50 or 60 Hz. The average current is 2 A and the peak current can reach 3.5 A. The rated power is 240 W.

The machine has an earth wire inside, so use a single-phase, three-wire power cord and make sure the supply has a reliable earth. Without proper earthing, static electricity cannot discharge, and the operator may feel an electric shock.

10.3 Film choice and storage



Warning

Please use film supplied by Forever Green Packaging. Other film may cause bags to burst or reduce packing performance, and could damage the machine. See Section 12.0 for our support terms.

- Store film at 0–43 °C. Storing film outside this range may damage it.
- Before use, let the film reach its operating temperature of 16–43 °C.
- For the best seal, use the film within this temperature range.



11.0 Maintenance and repair



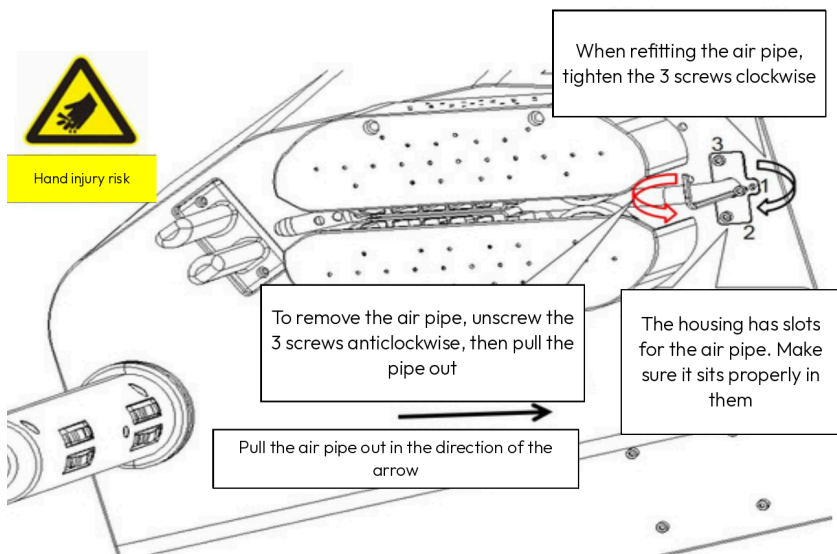
Warning

Before maintenance or repair, switch off the Shadow Boxer Mk2 and unplug the power cord.

Interval	Task
Weekly	Open the belt cover, remove dust and debris, and check the parts for unusual wear.
Monthly	Contact your authorised distributor or our technical service team to arrange an on-site inspection.

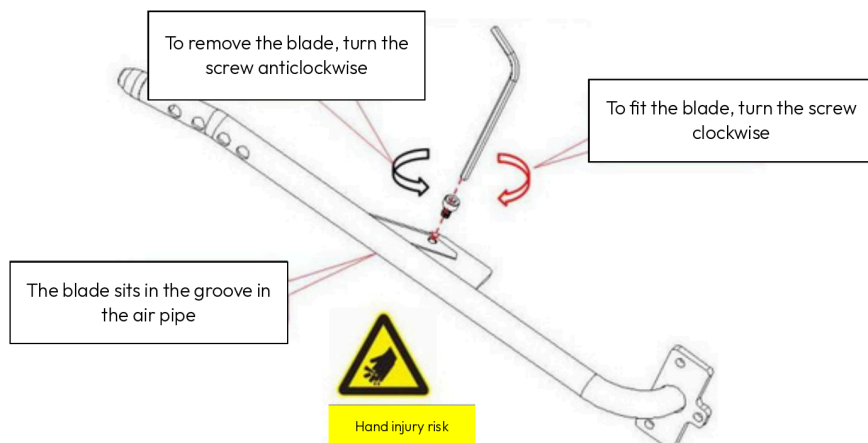
11.1 Blade replacement

Loosen the three screws at the base of the air pipe with a screwdriver (Fig. 4). Turn them anticlockwise and take the air pipe out in the direction shown.



(Fig. 4: removing and refitting the air pipe)

To remove the blade, turn the fixing screw anticlockwise. To fit a new blade, seat it in the groove in the air pipe and turn the screw clockwise to tighten it (Fig. 5).

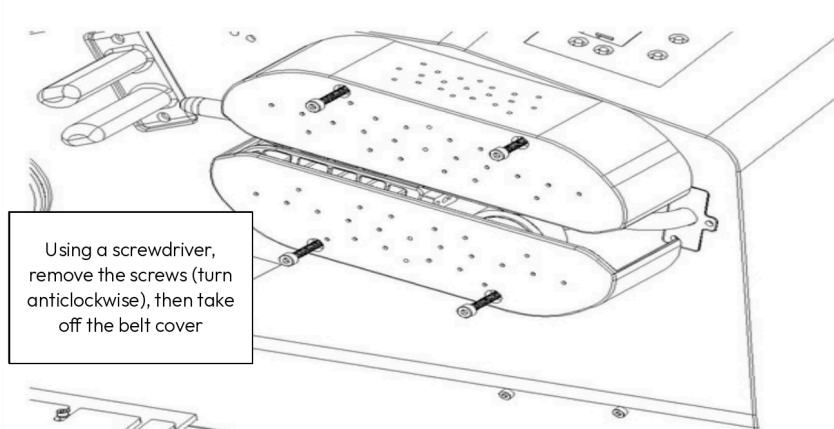


(Fig. 5: replacing the blade)

Refit the air pipe in its original place, making sure it sits in the slots on the housing, and tighten the three screws clockwise.

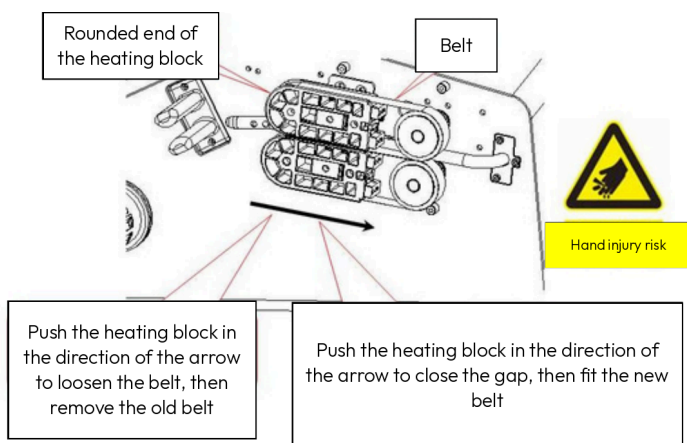
11.2 Belt replacement

Use a screwdriver to remove the belt cover.



(Fig. 6: removing the belt cover)

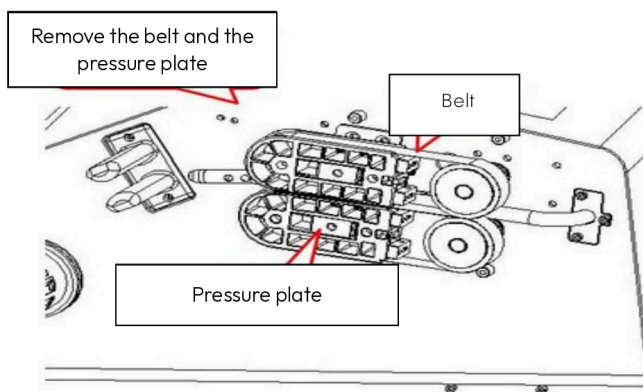
Push the heating block towards the traction wheel to loosen the belt. Remove the old belt and fit the new one, then refit the belt cover.



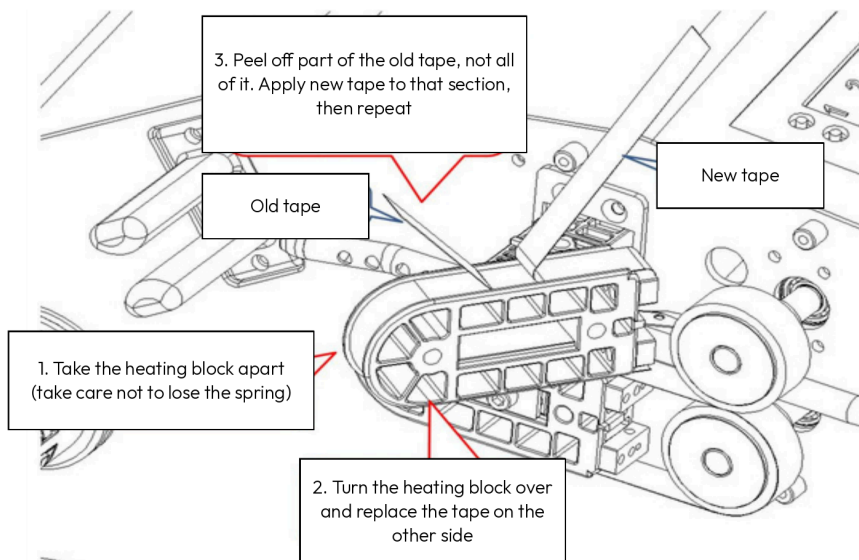
(Fig. 7: replacing the belt)

11.3 High-temperature tape replacement

1. Remove the belt cover with a screwdriver.
2. Push the heating block towards the traction wheel to loosen the belt.
3. Take off the belt.
4. Use the screwdriver to loosen the screw and washer in the centre of the heating block.
5. Carefully remove the heating block (the springs may slip out).
6. Peel off the old high-temperature tape and apply new tape.
7. Refit the heating block, belt and belt cover in their original positions.



(Fig. 8: removing the belt and pressure plate)



(Fig. 9: replacing the tape. Do not tear off all of the old tape before applying the new tape.)



12.0 Warranty and support

Purchased machines

Machines purchased from Forever Green Packaging carry a **1 year warranty from the install date**. Parts needed after the first year may be chargeable.

Machines on loan

Machines supplied on loan are serviced at no charge for as long as the loan continues.

Film

The Shadow Boxer Mk2 is designed for use with Forever Green Packaging film. **We support it for as long as it is being used with our film.** Using other film may affect seal quality and is outside our support.

Getting help

If you have a problem that this manual does not solve, contact us using the details on the back page, and have your machine model and a description of the fault ready.





Need help? Get in touch

Website: forevergreenpackaging.com

Email: info@forevergreenpackaging.com

Phone: 07973 818205

Forever Green Packaging is registered in England and Wales



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