



Auto Separator User Manual

ET400



Hangzhou Bing Jia Tech. Co.,Ltd

Tel:+86 571 86169196 Email:info@lockedair.com

1. User Instruction

Thank you for using *Locked Air* Auto Separator Instructions. To ensure that you use the appliance correctly, it is important that you read this instruction manual thoroughly before operation!

Tips: The operation of different models of machines may vary slightly, please pay attention to the prompts in the main body of the manual. Only those who have read and understood the chapters such as "Safety", "Product Introduction" and "Product Operation" can operate this machine

Operator responsibilities include:

- Operate machinery
- Carry out regular maintenance (see Section 9)

NOTE: Only service technicians employed by Locked Paper or a Locked Paper dealer are allowed to service this machine.

2. Safety

2.1. Safety Instructions Manual

The power supply used by the machine must be consistent with the parameters on the machine nameplate. Misconnection is strictly forbidden. To prevent damage to the machine, please only use the power cord provided with the product.

- Ensure the power supply is earthed.
- Do not disable or remove safety devices.
- Do not remove or cover Warning markings.
- Keep work area clean and accessible.
- Unplug the power cord and collect any loose wires together before moving the machine.
- Beware of hurting hands when using knives or scissors.

Make sure:

- No damage to cables
- Work areas should be well lit
- Work area is well ventilated

Safety specification design: The mechanical structure design complies with CE safety specification requirements. All dangerous parts cannot be touched by hand.

2.2. Machine Warning

Do not touch any moving parts when operating the machine.

Do not open the maintenance cover without training.

The machine will alarm if there are any errors.



Keep Hands Away: Keep hands away from the cutters to prevent avoid during maintenance.



Beware of Mechanical Injury: Do not put hands in channels to avoid injury during maintenance.



Lightning Tip: Indicates that some machine parts inside the equipment are not electrically insulated. Caution! Risk of electric shock!

- Press the emergency stop and unplug the power supply if you encounter any of the following situations:
 - Foreign matter at the input channel
 - Abnormal sounds are produced inside the machine
 - Other abnormal situations

2.3. Improper Use

The following applications or operations are inappropriate for the machine and are considered improper use:

- Reference to other documents not provided by *Locked Air*.
- Used outdoors or in wet environments.
- Used in areas where explosion accidents may occur.
- Using excess water to wash or clean the machine
- Stand on the machine.
- Place objects on or on top of the machine.
- Move the machine while it is running or still connected to AC power.

2.4. Storage

- Never place or store the machine in a damp or watery environments
- Before using the machine again after long-term storage, it must be inspected by a trained service technician
- The machine should be stored in an environment with a temperature range of -25~+55°C (-13~131°F) and a relative humidity range of 10%~90%RH.



If the machine is brought from a colder area to a warmer area, condensation may form on the machine (inside and outside), which may damage the machine and injure the operator if the power is turned on immediately. Allow the machine return to room temperature and wait for the condensation to evaporate before turning on the power.

2.5. Transportation

- The machine should not experience severe vibration or impact during transportation.
- The machine must not be exposed to the sun or rain, and should be stored within the required temperature and humidity range.

3. Disclaimer

The manufacturer and its authorized distributors are not responsible for any accident or damage caused by violation of the warnings or instructions contained in the description of this machine or this manual.

- Improper use or maintenance
- Use in applications or under conditions other than those specified in this manual.
- Use of unauthorized parts
- Use material not produced by *Locked Air*
- Repairs or modifications without the manufacturer's permission
- Unauthorized modifications to the machine, such as:
 - a.Change the control system
 - b.Welding, mechanical processing, etc.
 - c.Extend the machine or control system

The manufacturer and its authorized distributors are not responsible for:

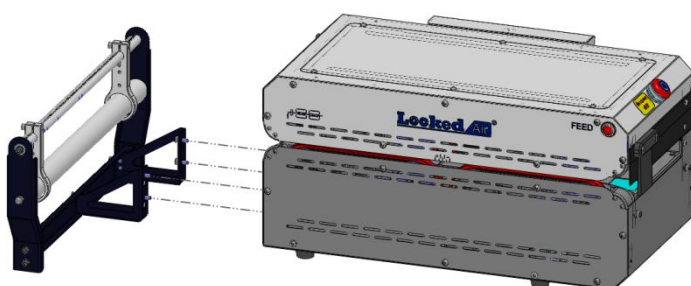
- Consequential damage caused by machine errors or malfunction (such as product damage, business interruption, delays, etc.).

4. Installation Guide

Check the contents against the packing list after unpacking.

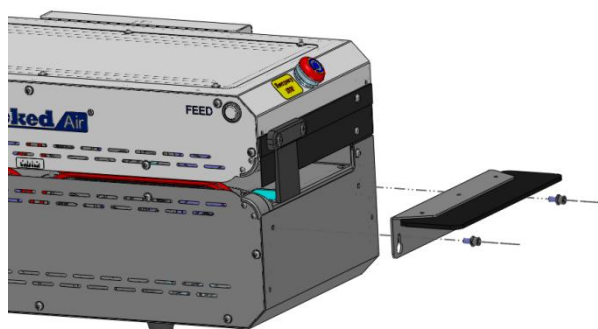
Machine	Tail Stock	Outlet Baffle
		

- 1) Tail Stock Installation:** Install the tail stock to the machine using four M5x12 combination screws, as shown in the figure.



4mm Allen Key

- 2) Outlet Baffle Installation:** Install the outlet baffle to the machine using two M5x12 combination screws, as shown in the figure.

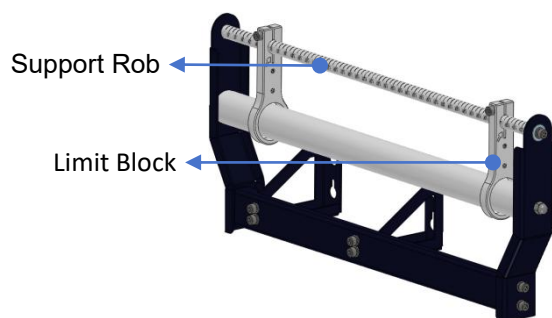


4mm Allen key

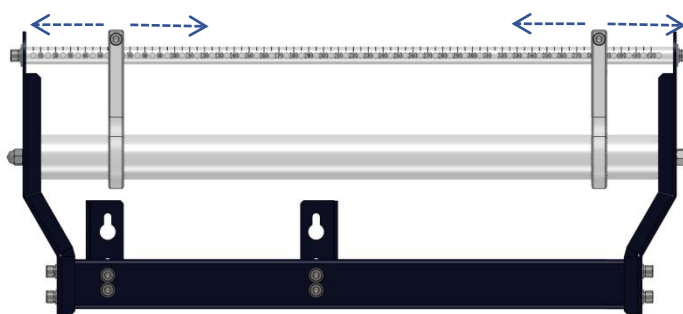
5. Tail Stock Adjustment

5.1. Limitation Adjustment Methods

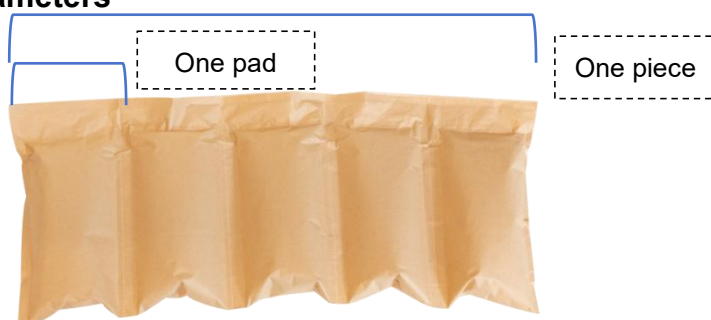
Step1: Loosen the knob to release the limit block.



Step2: Slide the blocks to adjust the limit in the direction indicated by the arrows.



5.2. Consumables Parameters



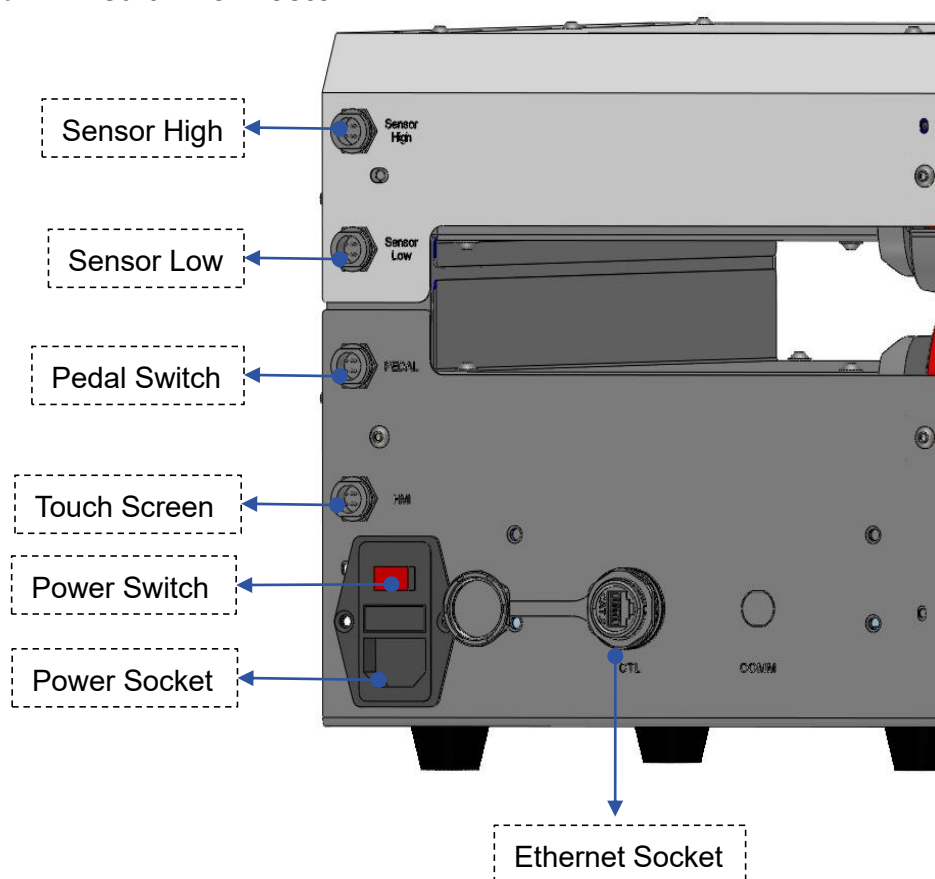
	Specification (Metric)	Specification (Imperial)	Width between blocks(mm)	Compression Ratio/%
①	MFB-H-20-40-33	MFB-H-08-16-13		90.5%
②	MFB-A-35-40-33	MFB-A-14-16-13		92%
③	MFB-L-25-40-33	MFB-L-10-16-13		93.3%
④	MFC-KPB-50-40-14	MFC-KPB-30-16-05.5		96.8% ~ 97.5%
⑤	MEX-KPB-5X-20-13	MEX-KPB-30-08-05		101%
⑥	MEX-H-20-20-13	MEX-H-08-8-5		98% ~ 100.5%
⑦	MEX-H-20-20-10	MEX-H-08-8-4		95%

6. Introduction

6.1. Machine Introduction



6.2. Circular Connector



7. Operation



7.1. Start Machine

Step1: Connect the Ethernet cable, touch screen cable, pedal switch cable and sensor cables.

Step2: Plug the power cord, turn clockwise to release the E-stop button, then power on the machine.

Step3: Start the air cushion machine.

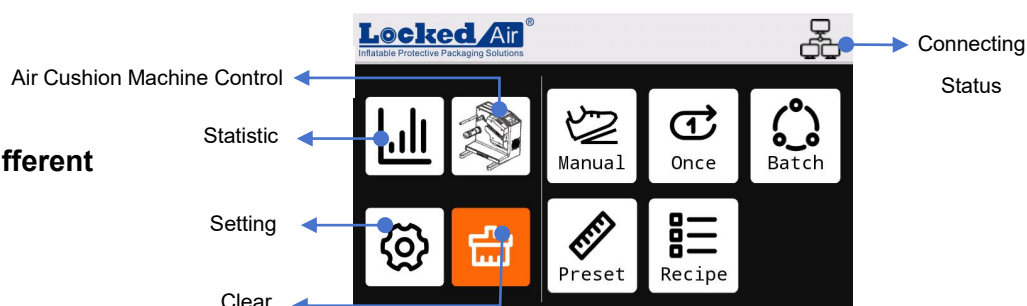
7.2. Feed

<p>Step1:</p> <p>Adjust the limitation of limit blocks according to the width of consumables, feed the consumables through the guide bar and into the inlet port.</p>	<p>Step2:</p> <p>Press the feed button, and lead the consumables to the transmission belt. The consumables will stop at the scale area if feeding is successful.</p>
	









8. Screen

8.1. Home page

Tap the icon to enter different modes as needed.




8.2. Icons


 : Then machine is working	 : Return to previous page
 : The machine is stopped	 : Return to home page
 : Used to handle abnormal consumable breaks, jams that occur during machine operation.	
 : The width of one pad.	
 : The machine is offline with the air cushion machine.	
 : The machine is online with the air cushion machine.	

NOTE: After entering each function mode, please first confirm that the consumable model is the same as the one selected in the interface.


8.3. Air Cushion Machine Control

This interface enables users to control the air cushion machine.

Tap  on the home page to enter the interface. (Figure 1)

 Start the air cushion machine

 Stop the air cushion machine

 Feed the consumables

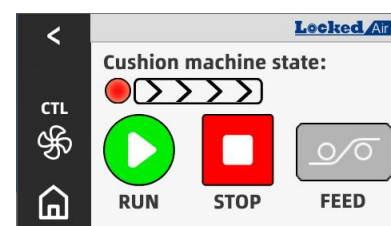


Figure 1

NOTE: See LA-E4S Air Cushion Machine Manual for more details.

8.4. Manual Mode

This interface enables users to control the length produced by adjusting the trigger time.

1) Tap  on the home page to enter the interface. (Figure 2)

2) Operation:

a. Trigger: Press pedal or tap  to start.

b. Length Control: Hold the trigger to extend the cutting length, when released, the machine automatically moves to the next line and cuts.

c. Minimum Length: Trigger in a short time, the machine will separate only one pad of consumable.

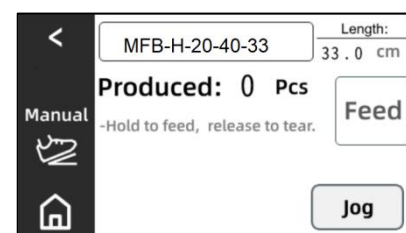


Figure 2

- d. Maximum Length: Trigger and hold continuously, the machine will separate by maximum length.
- e. Statistic Record: The number produced is displayed on the interface. The number will return to 0 when the trigger is restarted.

8.5. Once Mode

This mode enables users to preset the pads number of one piece.


1) Tap  on the home page to enter the mode. (Figure 3)


2) Operation:

a. Set Pads Number: Tap  /  to set pads number.

b. Trigger: Press pedal or tap  to start.

c. Output Mode: Tap  to switch output mode.

: Produce only one piece.

: The machine will consistently produce the preset length of consumables when triggered.

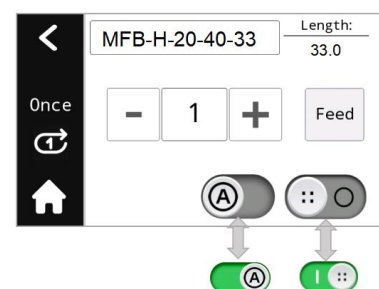


Figure 3

8.6. Batch Mode

This mode enables users to preset the pads and pieces number. And the machine will produce continuously when the number of pieces is reached.

1) Tap  on the home page to enter the mode. (Figure 4)

2) Operation:

a. Preset: Tap box above the “Number” to set pads number.

Tap box above the “Amount” to set pieces number.

(1~99999Pcs)

b. Trigger: Press pedal or tap  to start.

c. Automatically Produce: The machine will produce continuously until the number of pieces is reached.

d. Statistic Record: The number produced is displayed on the interface.

e. Reset: When the machine is paused, clicking  to clear produced.

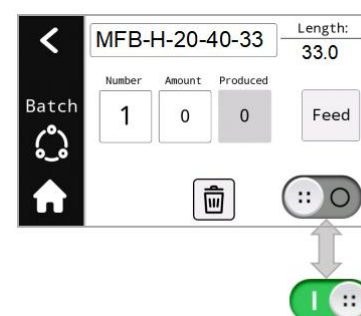


Figure 4



8.7. Preset Mode

This mode enables users to preset 4 sets of pads numbers, the machine will produce according to the preset number.

1) Tap  on the home page to enter the mode. (Figure5a)

2) Operation:

a. Preset: Tap  to enter edit interface. (Figure 5b)


Tap  box to set pads number, tap  to return to mode


interface after setting.

b. Trigger: Press pedal or tap  to start.

c. Pads number: Tap the preset number, and the machine will produce accordingly.

d. Output Mode: Tap  to switch output mode.

: Produce only one piece.

: The machine will consistently produce the preset length of consumables when triggered.

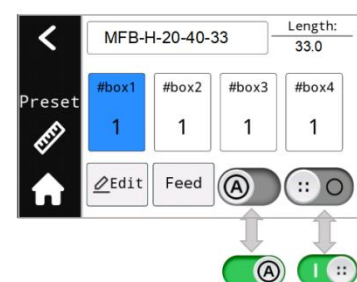


Figure 5a

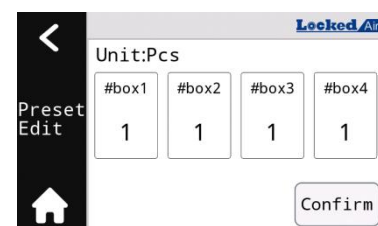


Figure 5b



8.8. Recipe Mode

This mode enables users to preset 6 sets of pads and pieces numbers.

1) Tap  on the home page to enter the mode. (Figure 6)

2) Operation:

a. Preset Recipe:



Tap box under the “Number” to set pads number.



Tap box under the “Amount” to set pieces number.



If the amount number is 0, the machine will skip 0 when working.

b. Trigger: Press pedal or tap  to start.

c. Output Mode:

 : Once Mode. Produce only one piece.

 : Constantly Mode. Produce automatically when previous one is taken away, until the preset recipe has been completed.

 : Circular Mode. Produce automatically when previous one is taken away, until the machine is stopped manually or the paper runs out.

d. Statistic Record: The number produced is displayed on the interface.

e. Reset: When the machine is paused, clicking  to clear produced, and the machine will start producing from number 1 when restart.

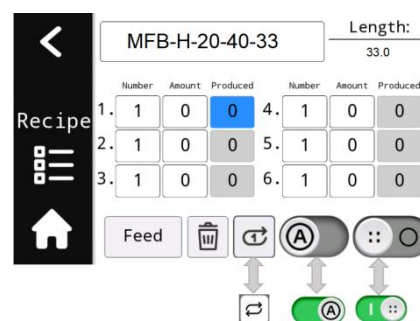


Figure 6

8.9. Statistics

This interface enables users to view machine statistics such as total length, power-on time and tear off amount.

- 1) Tap  on the home page to enter this page. (Figure 7)

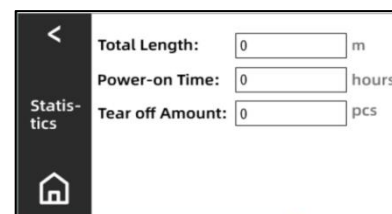



Figure 7

8.10. Clear

This interface enables users to resolve film jam and broken.

- 1) Tap  on the home page to enter this page. (Figure 8)
- 2) Follow the steps shown on the screen.

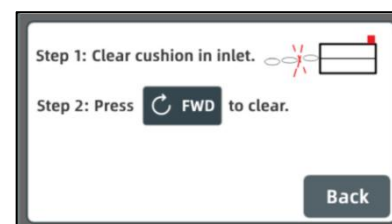


Figure 8

8.11. Setting

This interface enables users to enter pages of Diagnosis, Advanced, About and Log.

- 1) Tap  on the home page to enter this page. (Figure 9a)



Figure 9a

8.11.1. Language

This interface enables users to switch languages ;



- 1) Tap  in the settings page to enter this page. (Figure 9b).
- 2) Tap  to change the unit system.
- 3) Tap on the national flag to change the language. The white circle under the flags will turn green on success.



Figure 9b

8.11.2. About

This interface enables users to scan the QR code for more information and videos.


- 1) Tap  on the home page to enter this page. (Figure 9c)
- 2) Use the mobile to scan the QR code to get more information:
 - **Contact:** Locked Paper Official Website
 - **Support:** YouTube
 - **Info:** Machine Version
 - **HMI:** Screen Program Version



Figure 9c

8.11.3. Diagnosis

This interface enables users to diagnose the working status of the motor and sensor control parts.

8.11.4. Advanced

This interface enables users to temporarily resolve errors.

8.11.5. Log

This interface is used to record logs of triggered alarms.

After-sales service contact:

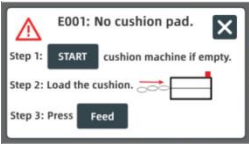


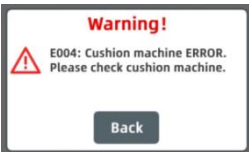
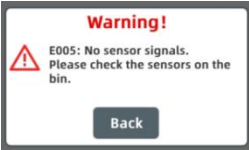
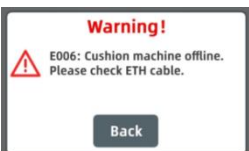


Email: info@lockedair.com

Tel: +86 0571 86169196

9. Troubleshooting

The machine will pop out a warning indicating the reasons for the breakdown.

Please follow this steps to troubleshoot: (If the information displayed is not listed below, please contact the *Locked Air* distributor for processing).

Warning	Detail	Solution
	E001: No cushion pad.	Step1: Press START button. Step2: Press Feed after feeding.
	E002: Cushion inside.	Step1: Clear cushion in inlet. Step2: Press FWD to clear.
	E003: Tear off FAILED	Step1: Clear cushion in inlet. Step2: Press FWD to clear.
	E004:Cushion machine ERROR. Please check cushion machine.	Step1: Clear the alarm of air cushion machine. Step2: Press Back to return, then you can use the separator machine.
	E005: No sensor signals, please check the sensors on the bin.	1. Check if the sensor aviation plug cable of the collection basket is loose.
	E006:Cushion machine offline. Please check ETH cable.	1. Check if the network cable is abnormal or loose, unplug and plug it back in, then restart.
	E010: Inlet Motor: Jam. 1. Please clear cushion inside machine. 2. Reload the cushion.	1. Please clear cushion inside machine. 2. Reload the cushion.
	E020:Outlet Motor: Jam. 1. Please clear cushion inside machine. 2. Reload the cushion.	1. Please clear cushion inside machine. 2. Reload the cushion.

10. Maintenance

10.1. Preventive maintenance

Warning! The machine must be switched off and the power supply must be disconnected during the maintenance work.

- Please be aware of the sharp corner, and take care not to hurt yourself.
- Please do not operate the machine with the safety device removed.

Maintenance Period	Items	Details
Monthly	Checking items	<ul style="list-style-type: none"> · Working status of the motion mechanism. · Whether the warning labels are clear and legible. · Wear and tear of parts. · Whether there are any consumables left.
Annually	Professional maintenance	Maintained by a certified service technician at least once a year.

10.2. Repair and Replace Parts

All maintenance work must be carried out by a certified service technician.

- Only the *Locked Air* Part is permitted to replace machine parts.
- The *Locked Air* Part can be ordered from the distributor.
- Please adhere to the instructions above to prevent any damage to the machine.

The manufacturer or distributor disclaim all responsibility if the instructions are not followed.

11. Customer Service

11.1. Customers Notice

Locked Air Air Cushion Machines are manufactured by Hangzhou Bing Jia Tech Co., Ltd., and are fully tested before dispatch.

If you experience any problems during use, please contact us using one of the following methods:

1. Contact with *Locked Air* distributor.
2. Send email to customer service: info@lockedair.com

11.2. Technical Support

If you have any problems with your machine, please confirm the following information:

1. Customers information: Company Name, Contact Number.
 2. Serial Number: "BJTLA-ET400_____". The number is shown on the nameplate.
 3. Detailed description of problems encountered.
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