MINI PAK`R® V3 air cushion system

USER MANUAL V1.1 (Original Manual)

Pregis LLC
www.pregis.com
Heerlen, The Netherlands
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Pregis
Protective Packaging Solutions

This product is compliant with Directive 2012/65/EC, Restriction of Hazardous Substances.

Disposal: Power tools, accessories and packaging should be sorted for environmental-friendly recycling.
Only for EC countries: Do not dispose of power tools into household waste!
According to the European Directive 2002/96/EC on waste electrical and electronic equipment and
It`s incorporation into national law, products that are no longer suitable for use must be separately collected and sent for recovery in an environmentally-friendly manner.

Official agency certifications, declaration documents, and RoHS position statements are available upon request or by visiting our website at www.pregis.com.

Table of content:

Box Contents

As you unpack the box, you will find the following:

- MINI PAK'R V3® air cushion system
- Power Cord
- User Manual or USB Stick with documentation

Technical Data

The MINI PAK'R V3 air cushion system ("the machine" or "the system") creates air cushions on-demand for use as cushioning, protective wrap, and general transport packaging. Strict compliance with the safety instructions are required to ensure personal safety. (See Safety Instructions in this manual)
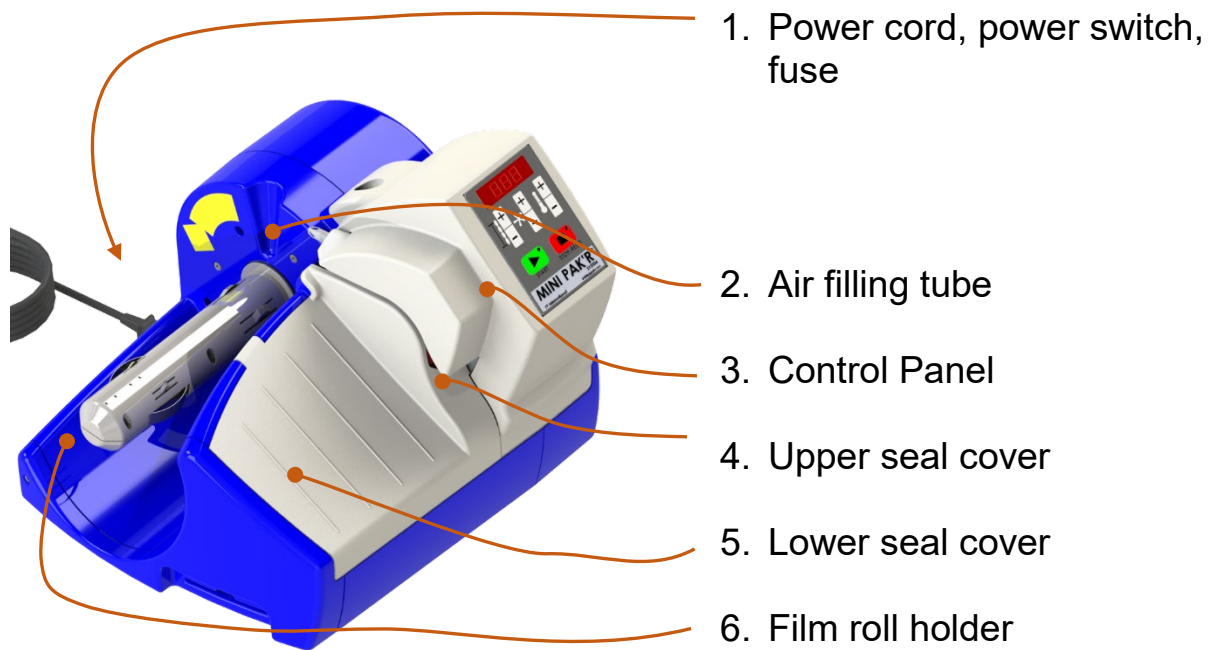
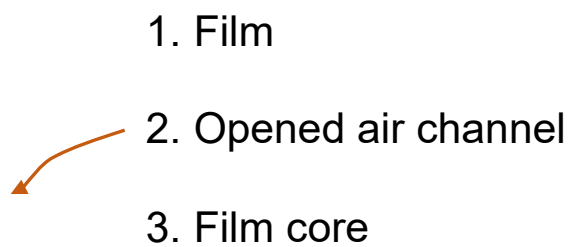| Specification	
Film roll product	Preconfigured MINI PAK'R V3 film
Production Rate	12 meters per minute (40ft./minute)
Power Rating	Model # MM2I2IN230 – 230V, 2.5A
	Mode I# MM212IN115 – 115V. 5.0A
Machine Dimensions	37cm (14.6") wide X 36cm (14") long X 30cm (11.8") tall
Recommended Power Fuse	5mm X 20mm, Slow-Blow: 250V 2.5A (230V System)
	5mm X 20mm, Slow-Blow: 250V 5.0A (115V System)
Machine Weight	8 kg (17.6 lbs.)
Sound pressure	< 70dbA

Safety instructions

To ensure the personal safety of operating personnel and/or users of this machine, the instructions below must be followed at all times.

1. The machine may only be used in industrial applications. Usage in a home or office environment is excluded.
2. The machine shall be used in a facility that is correctly ventilated for air renewal.
3. Avoid all contact with internal electrical components.
4. In case of emergency, switch off the machine and disconnect power.
5. If the machine is not used for any length of time, the Power Switch must be turned OFF at the rear of the machine.
6. During Installation and Maintenance, the Power Switch must be in the OFF position, with the Power Cord disconnected.
7. All safety and protection measures must be fitted and adequately maintained in accordance with local regulations.
8. Only trained and qualified service personnel may maintain any electrical and or mechanical part of the machine.
9. During machine operation, **NEVER** touch the film at its point of entry into the machine. Do not attempt to guide the film into the machine. Injury may result.
10. Under no circumstances may any installed safety feature be overridden.
11. After loading the Film Roll, the machine will automatically adjust to the right seal temperature for the film. Any contact with the heating element must be avoided (or any part in direct contact with the heating element), since it may remain hot for several minutes after the machine has been switched OFF.

Machine Parts

1. Power cord, power switch, fuse

2. Air filling tube

3. Control Panel

4. Upper seal cover

5. Lower seal cover

6. Film roll holder
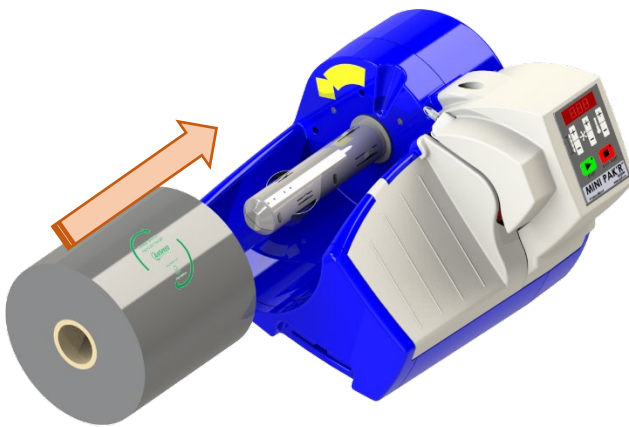
Film roll

1. Film

2. Opened air channel

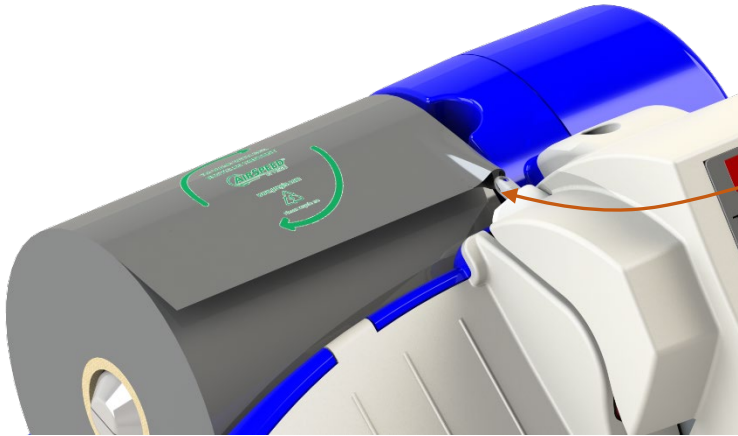3. Film core

Loading a film roll

Step1:

Connecting power
1. Insert provided Power Cord into the rear of the machine.
2. Plug Power Cord into a dedicated, grounded outlet.
3. Switch machine power ON (I).

Step 2:

Film loading
Push Film Roll onto the Roll Holder (with the film feeding off the top of the roll as shown) until it seats firmly.
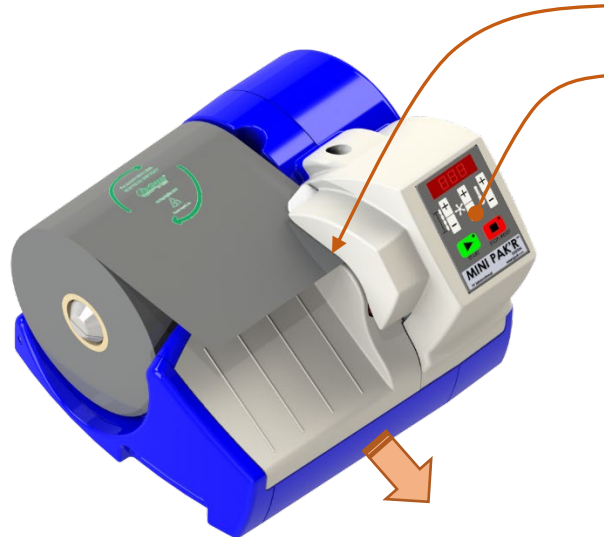
Step 3:

Threading the Film
Open the Air Channel at the right side of the Film Roll. Slip the Air Channel over the end of the Air fill tube.
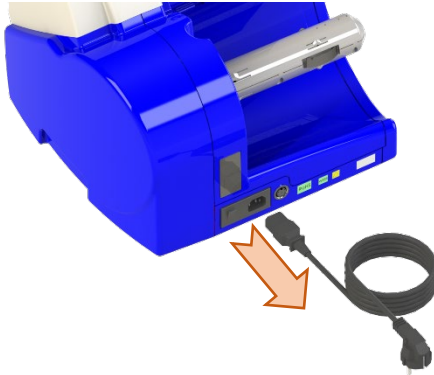
Step 4:

Advance film
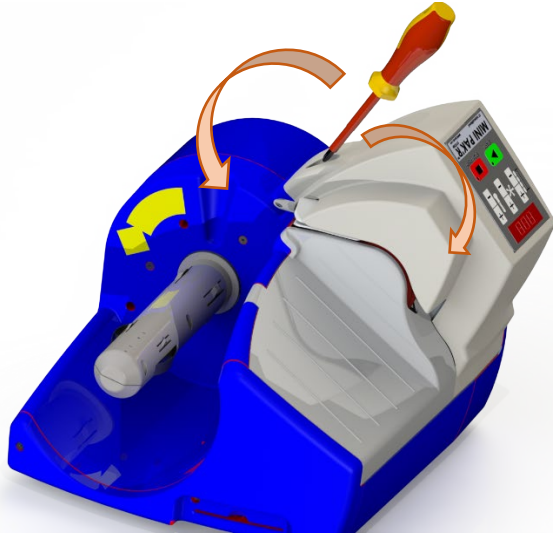1. Advance film up to bend

2. Push play and hold

3. Guide film through the MINI PAK`R V3

Rotating control panel

Step1:

Disconnect power

1. Switch machine power OFF (0)

2. Remove power cable

Step 2:

Open cover

1. Unscrew cover lock with screwdriver

2. Open top cover

Step 3:
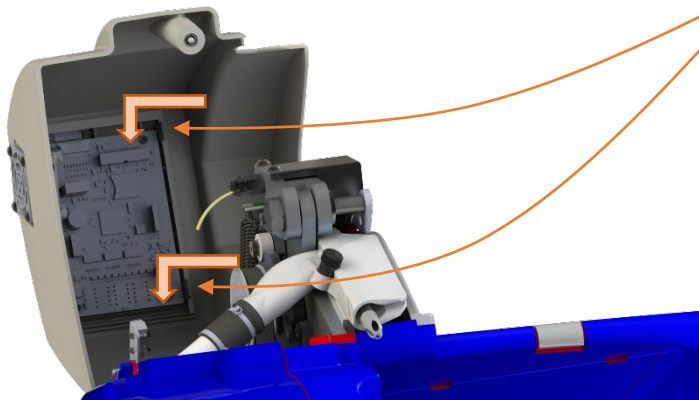
Unclick control panel

Push lips to the left and push down to move the panel out of the top cover

Step 4:
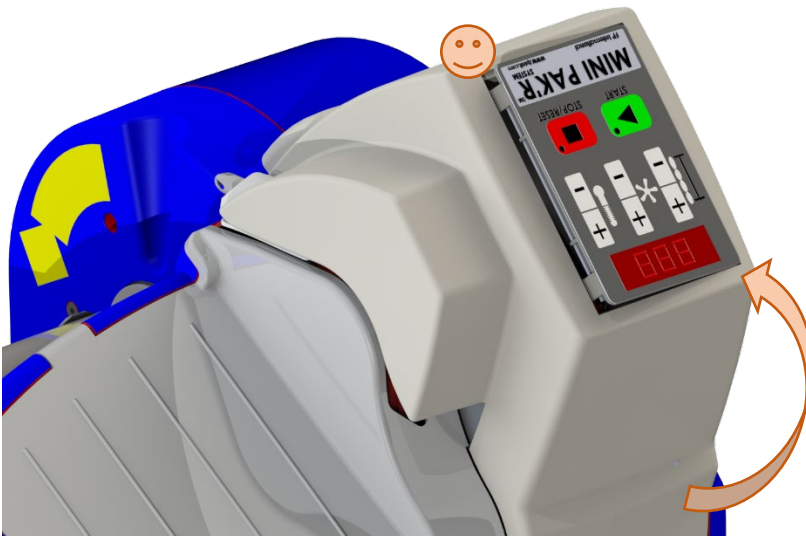
Close top cover

1. Close the top cover

2. Check if control panel can be grabbed from the outsize

Step 5:
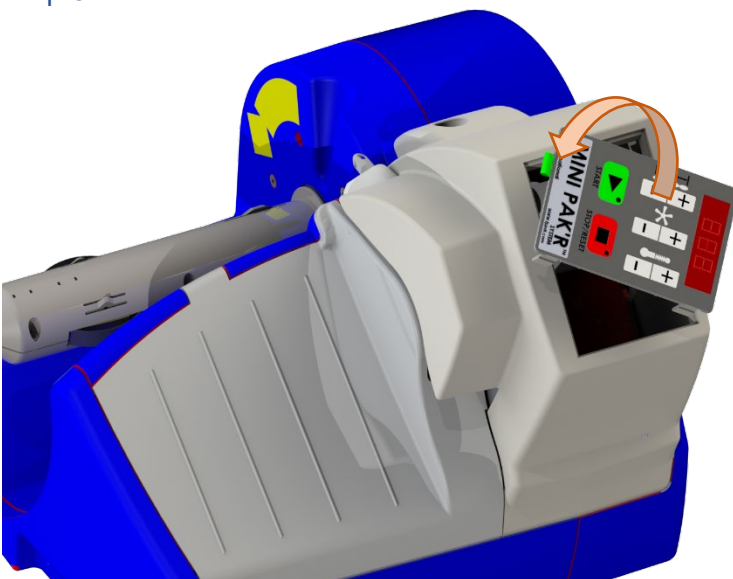
Rotate control panel

1. Gently take the display out of the top cover

2. Do not pull or remove any cables

3. Rotate panel counter clockwise

Step 6:
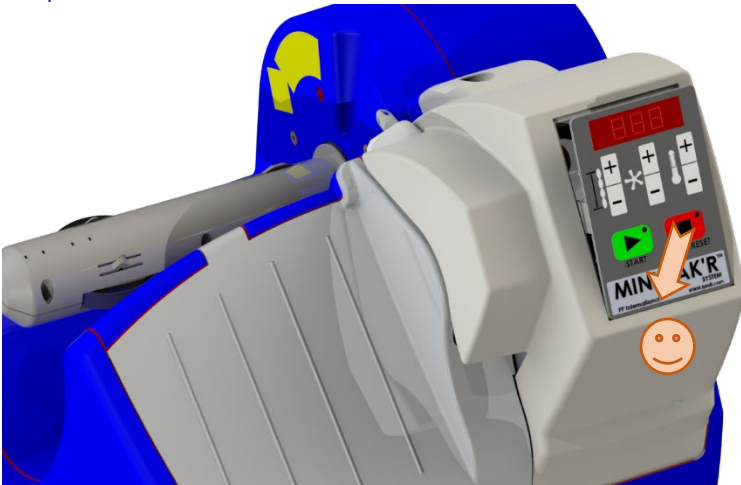
Reposition panel

1. Reposition the control panel down into the cover

2. Guide the green flat cable into the cover

Step 7:
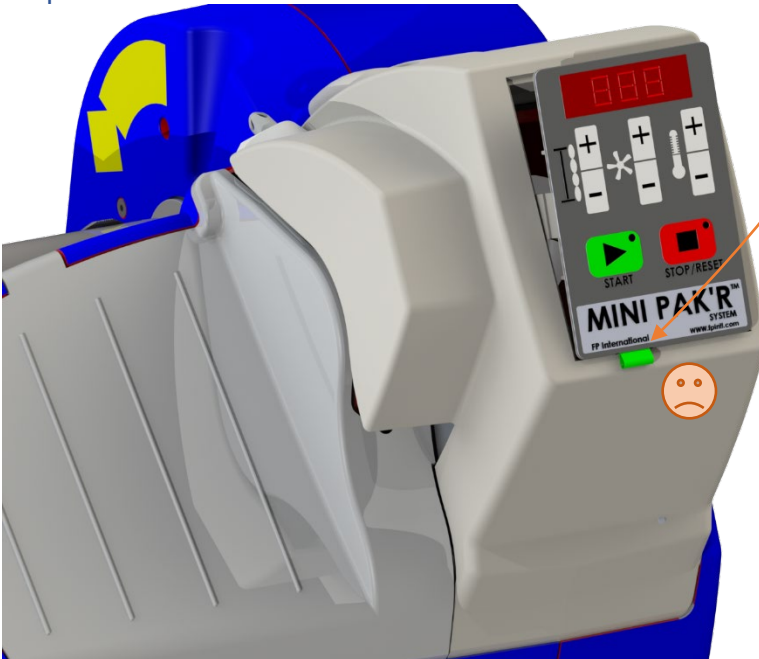
Check green flat cable

Check if the green flat cable is inside of the top cover

Step 8:

Click control panel in place

1. Click control panel back into the top cover

2. Lock top cover with screwdriver

Basic operation

Set air fill level

Display

Set number of cushions to produce

Set seal temperature

Green LED
- Blinks while warming up
- Solid when ready

Red LED

Start button
- Warm up the machine
- Start production of Air Cushions

Stop button
- Stop production
- Reset MINI PAK'R Industrial after error is corrected

Initially, the display will show "SLP" (Sleep). Once film is loaded, the machine will detect the roll. The green LED on the Start Button will begin flashing. A flash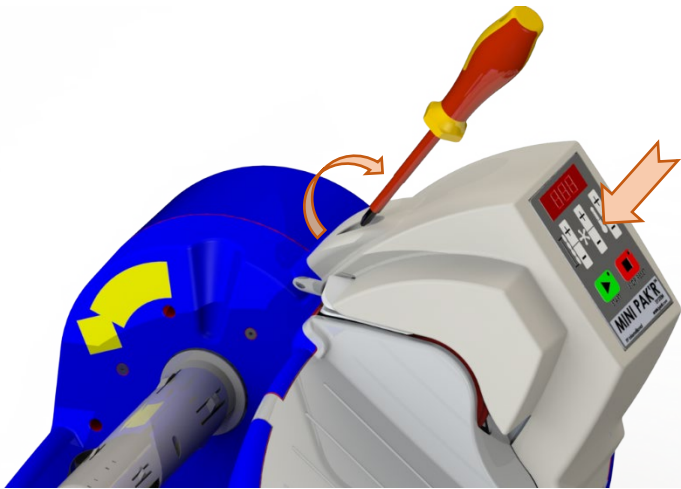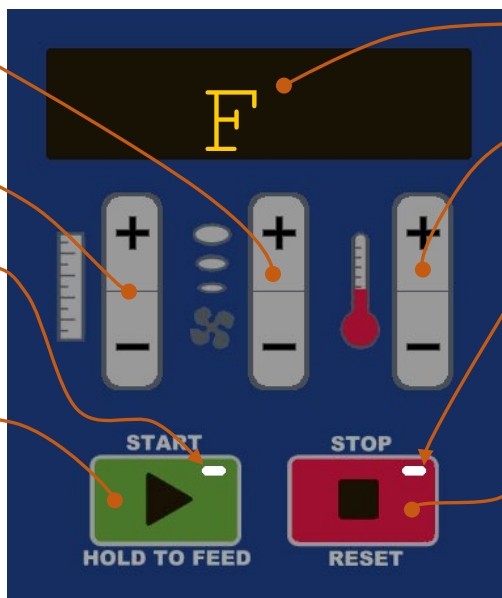ing green LED indicates that the machine is warming to the correct seal temperature. The Control Panel will display seal temperature while adjusting.

When the correct temperature is reached, the green LED will remain solid green. The display will show "RDY" (Ready). The machine is ready for production. Press the Start Button to begin making Air Cushions.

Start production
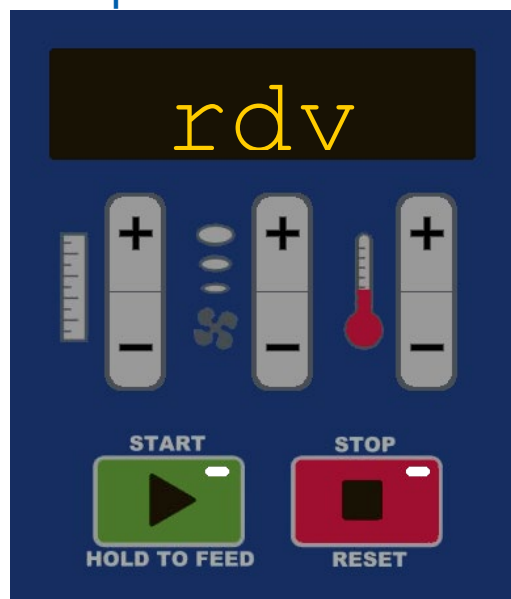
When the green LED remains steady green, and the Display reads "RDY" (Ready), press and release the Start Button again to begin production. The Air Pump will force air into the film, and after a few seconds the Drive Motor will advance the inflated Air Cushions through the Seal Bar and past the Slitting Blade. Air Cushions will emerge at the front of the machine.

Press the Stop Button to stop production. The machine is factory set in continuous mode, and will create Air Cushions until the Film Roll is empty. To create a fixed length of Air Cushions, use the Length Control buttons (next page).

Sleep mode
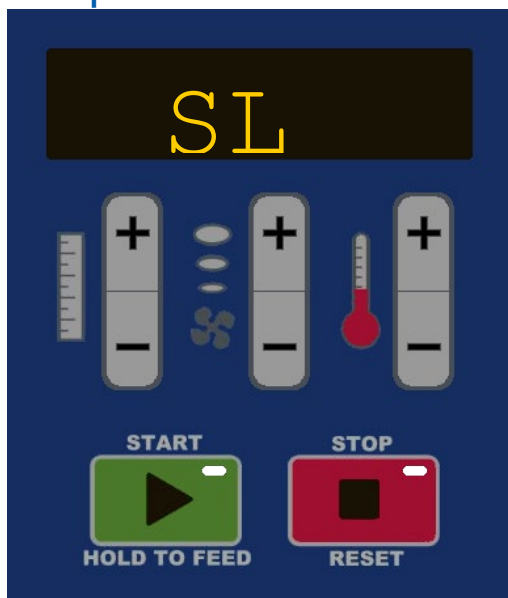
If the machine is not used for 30 minutes, it will enter "Sleep" mode. The Display will read "SLP". To resume Air Cushion production, press the Reset Button. The Seal Bar will begin heating. Press the Start Button again when the green LED remains steady green and the Display reads "rdy" to resume Air Cushion production.

Machine settings

Changing Machine Settings

The machine automatically chooses the correct air and temperature settings for the Film Roll you have loaded. You do not need to adjust Machine settings manually. However, if the automatic settings are not optimal, the Control Panel allows you to change the following settings:

- Length control
- Air – Fill level control
- Seal temperature control

Length control
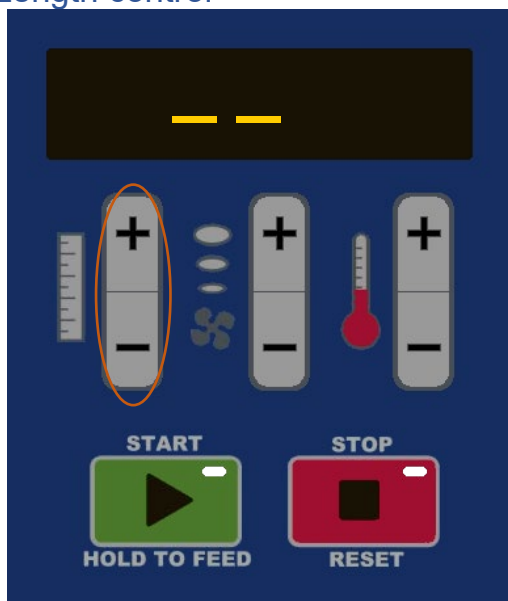
Length Control sets the number of Air Cushions to be produced each time you press the Start Button. You have 2 options:

Continuous Mode

Length Control at the factory is preset at continuous production. Press the Start Button and the machine will run the film until the Film Roll is empty or the Stop Button is pressed. The Machine will display the number of Air Cushions produced.

Number of Cushions

If you want to produce a fixed length of Air Cushions, press the + Button until the desired number is displayed. The machine will count down the number of Air Cushions yet to produce.

To change from Fixed to Continuous mode, press the - Button until the Display shows "---".

Air control
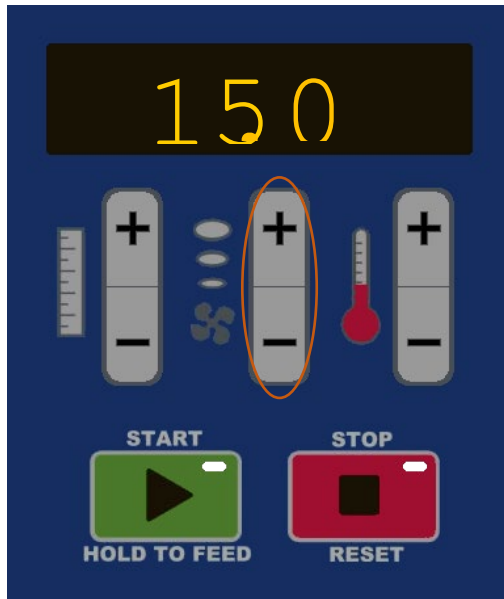
Air Control regulates the amount of air in the Air Cushions.

If you want fuller Air Cushions, press the + Button.
If you want less full Air Cushions, press the - Button.

Seal temperature control
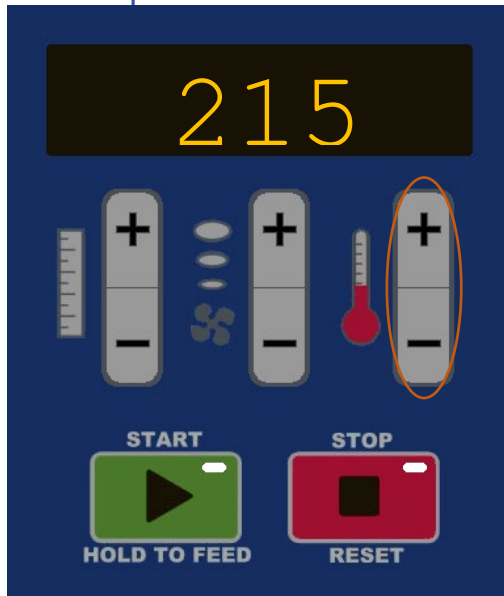
The Temperature Control regulates the temperature of the Seal unit that fuses the front and back film sheets together.
If the Air Cushions become flat, and upon inspection the Heat Seals are leaking air, increase the Temperature Control by pressing the + Button.
If the Air Cushions become flat because the seals are burned through at the seal line, as evidenced by holes in the Air Cushions, decrease the Temperature Control by pressing the - Button.
NOTE: After changing the Temperature Control setting, the MINI PAK'R V3 may take a few moments to establish the new seal temperature. During heat-up or cool down, the green LED will flash until the correct temperature has been achieved.

If Air Cushions continue to show poor seals and produce flat cushions, contact Pregis for assistance.

Maintaining MINI PAK'R V3

Risk of Burn!
Before opening Covers, turn Power OFF, unplug the Power Cord, and wait 10 minutes for the machine to cool down.

Improving slit performance
The slit performance can be improved by reposition, flip or replace the slitting blade:
- If the film jams frequently
- If the blade is not cutting the film properly or is making a very rough cut

1. Turn power off, unplug power cord, then wait 10 minutes for the machine to cool down.
2. Loosen the integrated screw in the top cover, with a slotted or Philips screwdriver.
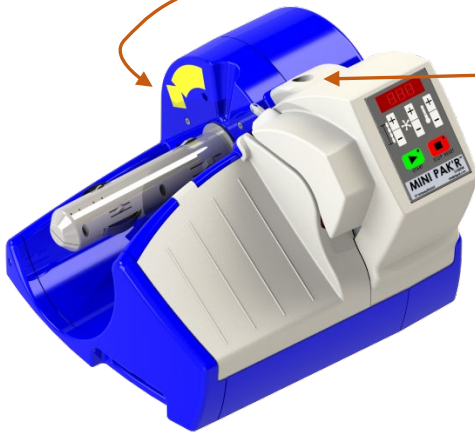
3. Open the top cover
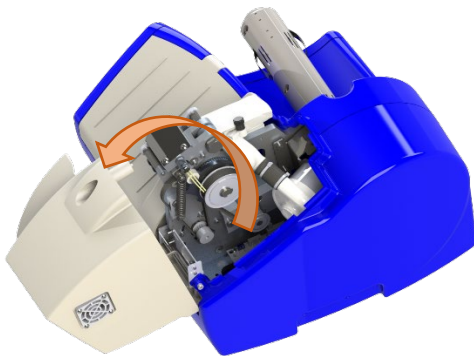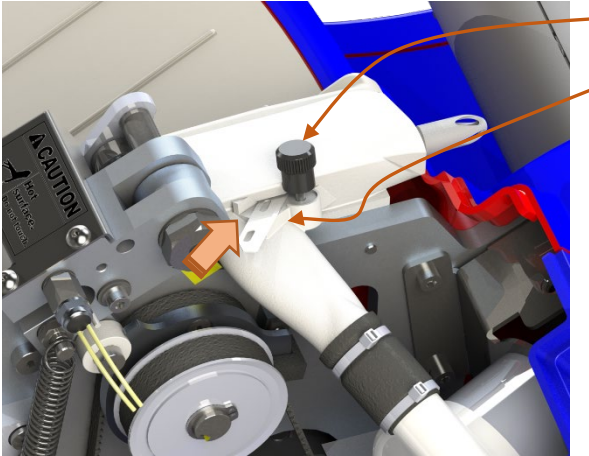
4. Unscrew thumbscrew to loosen the blade

5. The slit performance can be improved by repositioning the blade, so that the film is again cut by a sharp section of the blade. This is achieved by a number of options:
   a) Reposition blade further into the manifold
   b) Flip the blade on the short edge
   c) Exchange blade if cut edge is fully used

6. (Re-)position the blade

7. Tighten the thumb screw

Display codes

Display code	Explanation
RDY	The machine is ready for air cushion production.
SLP	After 90 minutes without operation the machine enters in sleep mode to safe power. No actions needed.
STY	Machine is in reduced temperature mode. No actions needed.

Error codes

If the Display shows an Error Code, and the red LED flashes, consult the chart below to determine the cause. Clear the problem as described below, then press the STOP/RESET Button to resume normal operation.

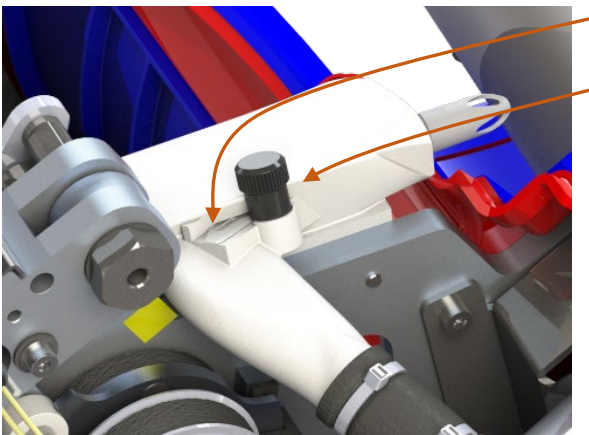| Display code	Error	Action
E1	Cover open	Make sure covers are closed.
E2	Jam / end of roll	In case of jam, open cover and remove jammed film carefully.
E3	Heater high temp. issue	Contact Pregis for assistance and swap the machine.
E4	Heater low temp. issue	Contact Pregis for assistance and swap the machine.
E5	Heating fault	Contact Pregis for assistance and swap the machine.
E6	No RFID tag detected	Swap the film roll and reset the system. If error repeats, contact Pregis for assistance and swap the machine.
E8	Temp. read fault	Contact Pregis for assistance and swap the machine.
E9	Incompatible tag detected	Swap roll with compatible film roll. If the error still appears, contact Pregis for assistance and swap the machine.
E10	Temp. read fault	Clear error and allow machine to reheat. If error repeats, cycle power. If error repeats, contact Pregis for assistance and swap the machine.
E11	Temp. read fault	Clear error and allow machine to reheat. If error repeats, cycle power. If error repeats, contact Pregis for assistance and swap the machine.
E12	Thermocouple fault	Reset power to the machine. If error persists, contact Pregis for assistance and swap the machine.
E16	Power monitor fault	Contact Pregis for assistance and swap the machine.
E17	Power monitor fault	Contact Pregis for assistance and swap the machine.

E18	Power monitor fault	Contact Pregis for assistance and swap the machine.
E28	Drive motor driver fault	Contact Pregis for assistance and swap the machine.
E31	Drive motor start fault	Contact Pregis for assistance and swap the machine.
E32	Drive motor stop fault	Contact Pregis for assistance and swap the machine.
E36	Blower load fault	Contact Pregis for assistance and swap the machine.
E40	Blower start fault	Contact Pregis for assistance and swap the machine.
E41	Blower stop fault	Contact Pregis for assistance and swap the machine.
E44	Seal motor driver fault	Contact Pregis for assistance and swap the machine.
E45	Seal position fault	Power cycle the machine, if the error repeats, contact Pregis for assistance and swap the machine.
E47	USB load fault	Remove USB device. Contact Pregis for assistance and swap the machine.
E48	USB general fault	Contact Pregis for assistance and swap the machine.
E49	USB device not compatible	Remove USB device. Contact Pregis for assistance and swap the machine.
E50	Incorrect USB file format	Format USB to FAT or FAT32, Use Pregis recommended USB drive, not all drives are compatible.
E59	Control board reset	Unexpected reset detected. Contact Pregis for assistance and swap the machine.

Electrical Schematic

HIGH VOLTAGE WIRING

BODY OF HEATER CONNECTED TO FRAME
GROUND THROUGH MECHANICAL MOUNTING

230V: M2I200083
115V: M2I200082
- 245W HEATER ASSEMBLY

200C THERMOSTAT

230V - 2A 250VAC FUSE INSTALLED
115V - 4A 250VAC FUSE INSTALLED

M2I200053 -
CONTROL BOARD

ISOLATED AREA

- INTERNAL CONNECTION -

M2I200027 - AC/DC
POWER SUPPLY

8A 250VAC FUSE

COM (X3)

24VDC (X3)

MACHINE FRAME

OPTIONAL FOR INSTALLATIONS
WITH EXTERNAL E-STOP:
REPLACE M2I200061 WITH
M2I200062 - E STOP BYPASS CABLE

M2I200061 - E STOP BUTTON
CABLE ASSEMBLY

230V - 2.5A 250VAC FUSE INSTALLED
115V - 5A 250VAC FUSE INSTALLED

M2I200060 - POWER INLET

LINE
NEUTRAL
GROUND

NOTES:
-DRAWING NOT TO SCALE
-PART LOCATIONS AND ALIGNMENT DO NOT REPRESENT ACTUAL MECHANICAL LOCATIONS.
-FOR ASSEMBLY REFERENCE ONLY, NOT FOR PART PRODUCTION
-SIGNAL LINES 5VDC AND BELOW NOT IDENTIFIED, POWER LINES MARKED TO 3.3VDC
-POWER LINES MARKED 'LINE' MAY CARRY 115VAC OR 230VAC DEPENDING ON LOCATION
-ALL FUSES ARE FAST ACTING, RATED TO 250VAC OR ABOVE.

DIMENSIONS:
INCHES [MILLIMETERS]

CE Declaration

EC DECLARATION OF CONFORMITY
EU DECLARATION OF CONFORMITY

PREGIS LLC

1650 Lake Cook Road
Suite 400
Deerfield, IL 60015 USA

Name and address of the company established in European Community and authorized to compile the Technical File:

ACC – Services Contact
105 route des pommiers
Centre Ubidoca
74370 St Martin Bellevue
FRANCE

PREGIS LLC declares under our sole responsibility that the product described as:

Equipment Name: Air filled cushion machine
Generic Equipment Description: A machine used to fill plastic cushion with air
Model /Type: MM2I2IN230 /MINI PAK`R V2.5
Serial number(s): MPI2-200001 and above (230V)

Complies with the requirements of the following European Directives:

Machinery Directive 2006/42/EC.
Electromagnetic Compatibility Directive 2014/30/EU.
RoHS Directive 2011/65/EU.
Radio Equipment Directive 2014/53/EU.

Main standards considered:

EN ISO 12100:2010.
EN 60204-1:2018.
EN 61326-1:2012, EN 61000-6-2:2016 EN 61000-6-4:2007 + A1:2011.
EN 50581:2012.
EN 300 330 V2.1.1 (03-2017), EN 50364:2018.

Date: _05 SEP 2019____   At: Deerfield, IL

Name of authorized company representative: Michael Ferringer, Vice President of Innovation

Signature: _Michael Ferringer_____