Smart PACK operation manual

"Safety Precautions"
This is to protect the safety of the user and prevent property damage. Please be sure to read it before using it.

※ Design and specifications are subject to change without notice.

Points of Difference

Functional electrostatic touch sensor button" All functions are made of digital electrostatic touch sensor, easy to use and trouble free.

"Smart setting by container material"
In order to guarantee the best quality packing performance, the selection program is pre-set and a separate setting mode. Custom setting mode (ORD mode) is also available.

"Wrinkle removal function"
A patented technology from GMPS Smart Pack that enhances the container with anti-wrinkle function.

"All-surface pressure cam"
The four cam drive units with the patented technology are applied to achieve the same quality of packaging regardless of the size of container.

"Daily pack counter"
You can check the workload by counting the amount of packing done per day.

"Proximity Safety Sensor"
The safety sensor consists of a non-contact proximity sensor that provides excellent accessibility and preformance.

"Triple safety device"
All packaging functions are automatically operated, and the triple safety devices are installed to provide the best safety.

"Operation of each function"
Messages are displayed while operation for convenient use.

Safety caution

Warning

This is to protect the safety of the user and prevent property damage.
Please read the following carefully and use it properly.

Warning: It indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Caution: It indicates a potential for property damage.

Displays prohibited list. Prohibited actions may result in injury or damage to the machine.

Warning

Power Connection

Do not connect or disconnect the power plug with wet hands. Do not use multiple products at the same time in one outlet. Failure to do so may result in fire due to overheating.

Connecting to an aging power line may cause an electrical fire.

Plug in the power plug all the way so that it does not shake. It may cause the outlet to overheat.

It may cause overheating.
For safety, be sure to use a grounded outlet.

Caution

Product Installation and Use

Do not disassemble, repair or modify the product. It may cause fire or electric shock.
For internal inspection or repair, contact where you purchased the product.

Avoid loose clothing such as ties, necklaces or long dresses when using the product.
It may cause injury when stuck to the machine part.

Do not place any liquid such as water on the machine. It may cause electric shock or malfunction.

Place the machine out of children's reach. Burns or electric shock may occur.

When moving the product, turn off the power switch and disconnect the power plug from the outlet.
Damage to the cord may cause fire or electric shock.

Product safety device

Safety proximity sensor

1. Safety sensor is operated to maximize user's safety and mechanical performance.

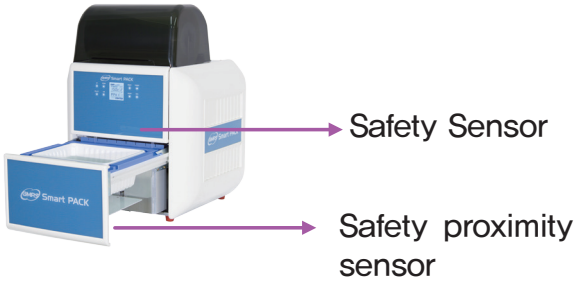
2. All sensors are operated precisely so that the MCU can detect and respond to the sensor at a very high speed.

3. TRAY SAFETY sensor is operated as soon as the hand touches the surface of the sensor.

Safety Sensor

1. It is a device that protects the user from the hand injury caused by the user's carelessness when inserting the tray during operation.

2. If the tray is inserted improperly by user's hand, the safety switch will operate and the tray will be returned to its original position.



Safety Sticker

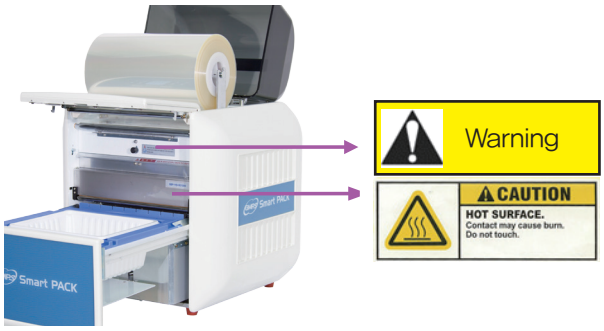
For your safety, the following caution stickers are attached to the exterior of the product.
Be careful not to get injured during operation.

Caution from replacing films

When replacing the film, check the sides of the film for a right position. Incorrect installation may cause the film to stick to the heater.

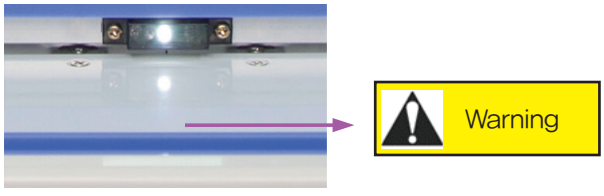
High temperature caution

Avoid physical contact since the surface of the heater is hot.



Use caution

Do not insert your hand or any part of your body. You may get injured.



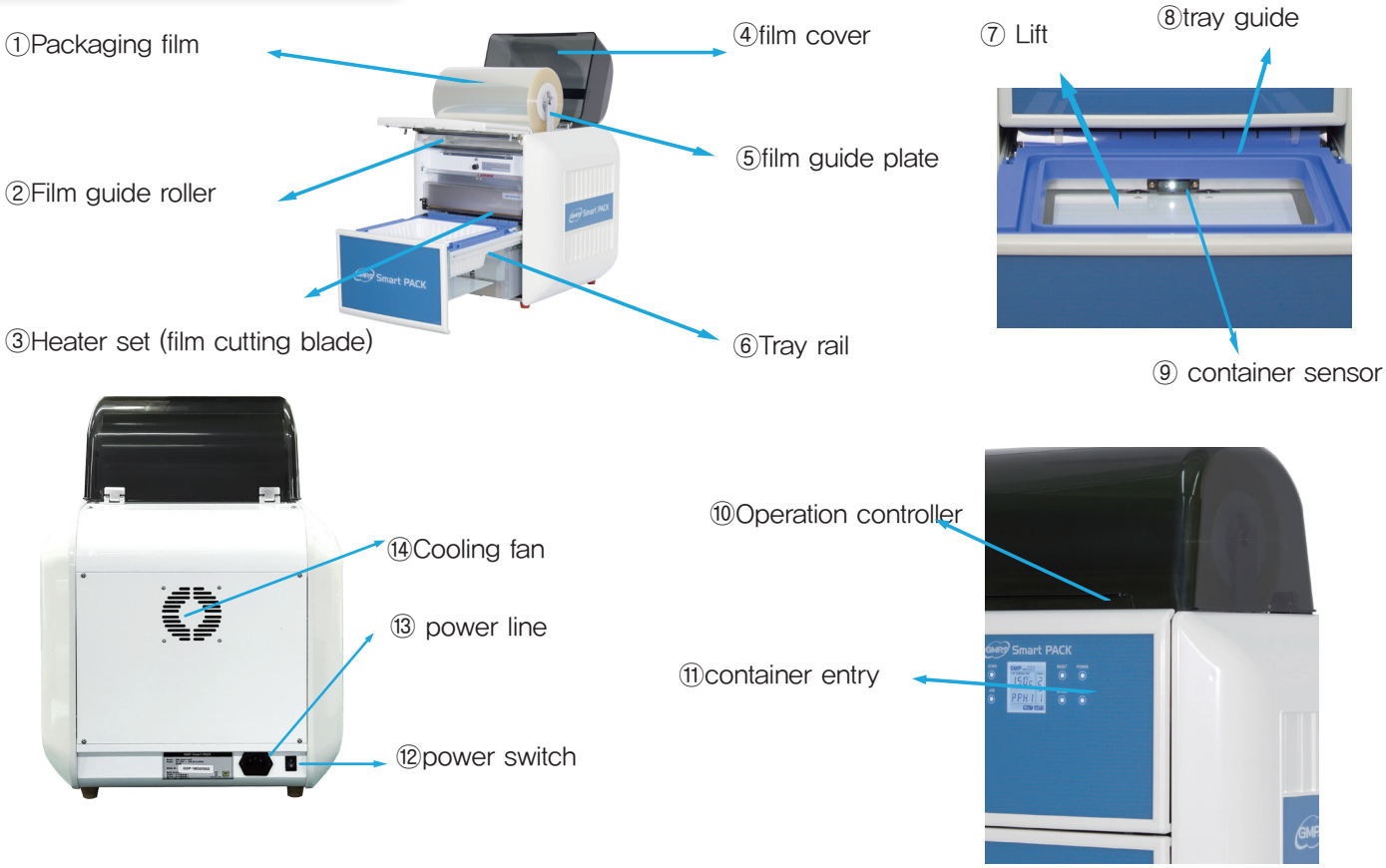
Electricity caution

High-voltage electricity is flowing inside.
Be careful of electric shock during operation.

Chain caution

Do not insert your hands or parts of your body.

Name of main parts



Name of main functions

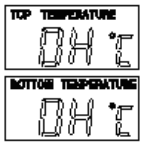
1. Packaging film FDA-approved films for packaging are sold separately by our company.
2. Film guide roller It is a guide roller to release the film steadily.
3. Heater set (film cutting blade)
   The heater set is prepared according to the specifications of the container and is easily replaceable and can be used safely.
   (Film cutting blade)
   It cuts the outer edge according to the specification of the container. The blade is not exposed and is safe.
4. film cover It protects the film from foreign matter or surface damage and keeps the film clean and optimal.
5. film guide plate
   It is a film guide plate that anyone can easily and safely install the film in the right position.
   It is opened while installation of the film.
6. Tray rail
   It is a rail that functions to transport the tray safely, and safety devices around it are installed, so it can be used safely.
7. Lift After the container is packed, the lift will be lifted up automatically so the container can be taken out easily.
8. tray guide The tray guide can be easily replaced when changing the container dimensions.
9. container sensor It recognizes containers and operates a very important role in packaging.
10. Operation controller
    It is the operation panel which sets the operation condition of the smart function and operates the product.
11. container entry
    A place where containers are packed. It does not need any extra work because the tray automatically works while operation.
12. power switch
    A switch used to turn on / off the power. It is equipped with a fuse inside to shut off the power in the event of a power failure.
13. power line 220V 60Hz power line. Please check the electrical specifications before connecting the power.
14. Cooling fan It releases the heat inside the machine and the moisture that can be generated during packaging.

Control panel and display

1. Temperature display
This function indicates the sealing temperature of the optimized heater according to the operation.
Note: This product has self-diagnosis function to prevent a overheat.

If the temperature of the heater is not controlled and it is overheated, "OH" is displayed as shown in the figure on the left, turn off the power of the machine and contact the customer center.

2. Speed display
The speed displayed in the display window is the optimal speed set by default, so no adjustment is necessary. The speed is automatically set to match the material of the container and the film used.



3. Work condition display
Displays work conditions stored.

4. Task display
"WAIT": Indicates that the set temperature and the heater temperature are not appropriate (low / high temperature).
"READY": Indicates that the temperature of the heater is appropriate for the set temperature.

5. Number of Jobs
Indicates the number of packaging done.
Note: Even if the product is turned off, the quantity of work remains unchanged. Touch the RESET button on the front panel for initialization.

Function of buttons

1. Power
When the main power on the back of the machine is turned on, the front POWER lamp blinks and waits.
When you touch the POWER KEY, the beep sounds and the LCD lights and all functions are automatically checked and initialized.

2. Run
When touched, the tray goes forward and the lift automatically goes up to standby mode.
When re-selecting the menu, proceed according to the job for which the tray is set.
Note: For job setting, see "Description of JOB Function".

3. Reset It initialize the daily count.

4. Speed
1) When speed key is touched, Hot / nor will be displayed on the DISPLAY for a while and disappear.
2) In HOT mode, the tray operates at 30% lower speed than when it is NORMAL.
(It is effective when packing hot soup.)

5. UP/DOWN
It is used for temperature change and speed change in ORD mode.

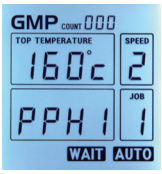
6. Select
1) It is used to set temperature and sealing time after touching JOB KEY.

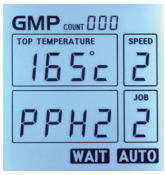
7. JOB
This menu is used to set the overall functions of the product, such as the operating conditions and film replacement sensor settings.

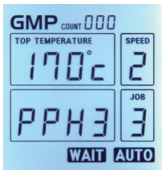
Explanation of JOB / 2-ST function

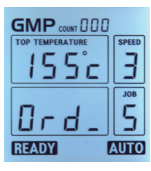
1. JOB
What is the JOB function?
It is a function to store the frequently used work in memory and to eliminate the hassle of operating the button to set the working conditions each time the product is used.
This product has five different working conditions from JOB1 to JOB5.
Using the JOB menu
When JOB KEY touched, DISPLAY will be changed in order of PPH1 – PPH2 – PPH3 – 2 – ST – ORD.
JOB1 ~ JOB4 are set to the optimum temperature and operation speed according to film type.

2. 2-ST
If you select 2-ST function of JOB4 when the sealing surface falls due to thermal expansion after sealing hot food, the heater will be operated twice repeatedly during sealing to achieve perfect result.





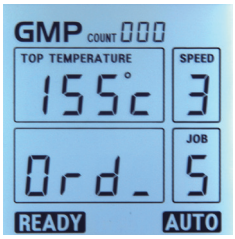




How to set user mode

working temperature

user mode



sealing speed

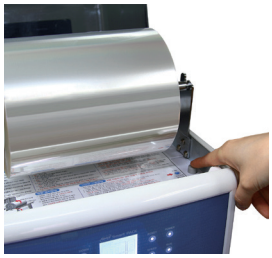
job

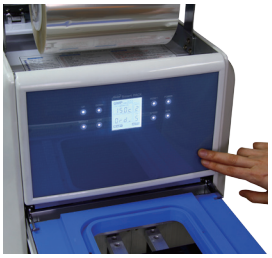
In JOB5 mode, the user can set the working temperature and speed at random.
EX) setting example
1. Touch JOB key to enter ORD mode.
2. Touch SELECT KEY to set the temperature and speed by pressing the "UP" and "DOWN" keys when numbers of temperature and speed are blinking.
Temperature and speed setting range is 0 ~ 180 ℃ and 1 ~ 8.
Note: The "SELECT", "UP" and "DOWN" keys are operated in conjunction with the JOB key, but not in the JOB1 to JOB4 modes.

Produce used procedure

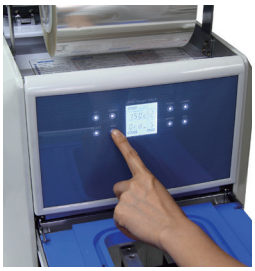
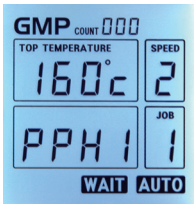
Packaging procedure

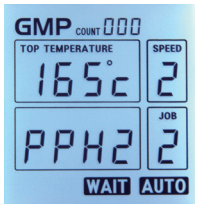
1. Turn on the main power on the back of the machine and touch POWER KEY on the front.
When you touch POWER ON KEY, the display will light with a beep sound and all the internal motors will move to the correct position and all functions will be automatically checked and initialized.

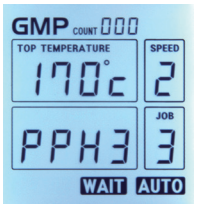


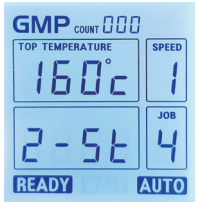


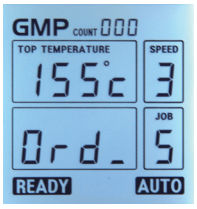
2. Install the packaging film on the product as shown in the figure.
1) After confirming the front and back of the film, install it on the film support, then press the gray button on the right side to lift the film front cover.
2) Pull the film down onto the film guide roller, and then close the film front cover.
3. Set the working conditions in the job window according to the film and packaging purpose.
Touch "JOB" to set the job according to the type of film. JOB1 ~ JOB4 are set to the optimal temperature and work speed according to the job type.

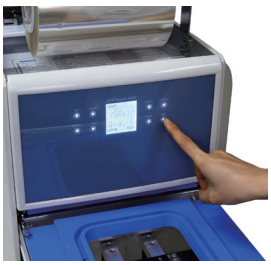








4. Touch RUN
When you touch RUN KEY, the tray comes forward and the lift automatically comes up and waits for the job ready.



5. If the LED lights up in the center of the tray table, place the container and proceed.

1) The VESSEL SENSOR is automatically lowered when the container is placed, and the tray is operated and sealed.
2) When the sealing is completed and the tray comes out, the lift will automatically lift the container.

6. After packaging is complete, remove the packaging container.
1) After removing the container, the LED on the lift table will be turned off while the lift is lifted to the top. In this case, it will not work even if the container is inserted.

2) When the LED of the lift table turns on, proceed to work by putting the container again.

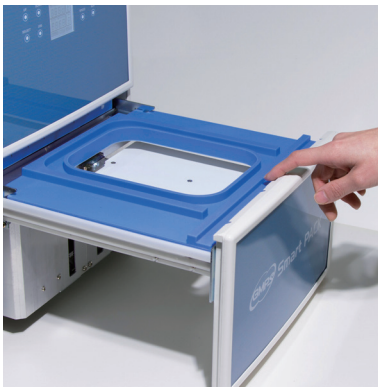
Avoid loose clothing such as ties, necklaces or long lace-up clothing when using the product.

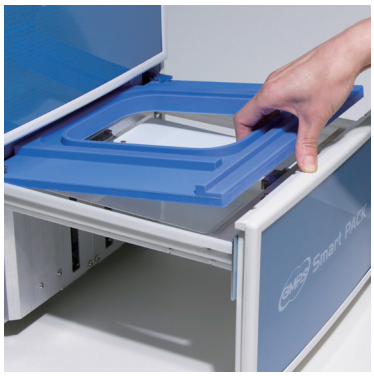
Note: "Standy mode" The SmartPack will automatically set the temperature of the heater to 80 ℃ after 1 hour if the operation is not performed after power saving. After another 1 hour, the power is turned back to the initial standby mode (You can delete the standby mode)
However, even if it is in the standby mode,
if you operate to pack or any button is touched, it returns to the standby mode.

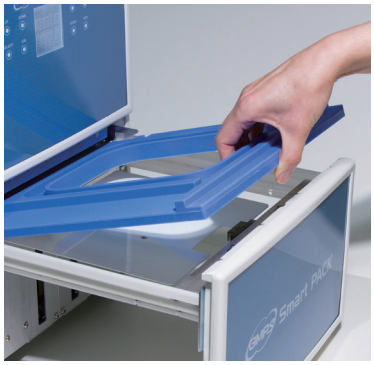
Replacement procedure

This product is designed to be used with containers of various sizes by simply replacing the heater and tray guide.
When replacing the tray guide, follow the procedure below.
The heater must also be replaced.

1. Select the "RUN" menu on the operation panel to remove the container inlet.







2. Press the switch shown above and lift the tray guide up.
For the heater set, open the front cover and turn the button located at the center of the heater two or three times counterclockwise to lift it up.
Place the new heater tightly and drag the lever down.

3. When you remove the tray guide, lift the marked part up slightly to make it easier to remove.
Note: Proceed in the reverse order to disassemble of the tray guide.

Troubles and Solutions

Issue	Cause	measures
The power of the product is not turned off	Bad power cable or fuse blow	Verify code, replace inlet fuse replace transformer (contact customer center)
The Back light on the control panel is turned off Characters error in control panel / keys doesn't work	Touch panel damage damaged cable mainboard issue	Replace fuse of main board contact customer center
The film of container is not attached	Poor insertion of film Film attached to the heater Pressure relief does not work cam motor does not rotate	check insertion of film/replace film remove heater first, then film Fuse of cam motor check and replace (contact customer center) replace main board (contact customer center)
poor cutting surface of packaging film	bad pressure structure or wear of blade	check and replace blade (contact customer center) check operation of pressure structure (contact customer center) check film used
The container inlet does not enter	Drive motor does not work bad delivery guide Wrong container use	check and replace fuse of mainboard (contact customer center) replace mainboard use a dedicated container
Severe noises from inside the machine	Friction of driving parts such as internal bearings or chains imbalanced performance from pressure structure	Check operating conditions of each part (contact customer center) inject grease, reassembly of noise generating parts (contact customer center)
Fan motor does not work	Damaged cable mainboard error FAN motor error	check cable connection (contact customer center) replace mainboard (contact customer center) replace fan (contact customer center)
SIL status continues during use	sensor operation error	check sensor connected to fan motor (contact customer center)
Safety sensor does not work	**Damaged cable mainboard error sensor error**	**check cable connection(contact customer center) replace mainboard(contact customer center) replace sensor (contact customer center)**

Regular inspection and replace standard

Section		Section point	day	300 hour (1month.)	900 hour (3 month)	1800 hour (6 month)	3600 hour (1 year)	7200 hour (2 year	note
driving unit	Chain and Chain Gear	Dryness of grease					check		
	DU Bearing	Dryness of grease				check			
	Timing Belt	wear and tear					check		change
		Tension			check				
	Tray Guide and Tray Lift	surface condition	check						
		oil, grease dryness			check				
	Motoes	operating condition				check			
	Film guide roller	surface condition		cleaning			check		
Electrical control	Fan motor	operating condition					check		
	Heater	operating condition				check			
	Safety Sensor	operating condition			check				

cleaning of product

※ Clean the main unit and cover with a soft dry cloth.
Caution: Do not use volatile substances such as acetone, benzene, and thinner.
It may cause fire.
Tray guide should be cleaned daily. If necessary, remove the guide, then clean.

Specification

Division	Specification
Packing speed	6 ~ 10
Container size (mm)	90 x 90 ~ 240 x 240
Film size (W x L)	160 x 300 ~ 270 x 300M
Rated voltage	220 Volt / 60 Hz
Power Consumption (W)	800 Watt
weight(Kg)	30 Kg

※ Exterior design and product specifications are subject to change without notice to improve product performance.

Warranty

GMPS guarantees the following warranty of our product in accordance with Consumer Regulations.

GMPS or the selling agent will service upon warranty request

The compensation will be made within 7 days from the requested date, and the damage compensation will be settled within 4 days from the notification date. (within 1 year after purchase)

The year of the part holding of this product is 5 years.

GMPS CO.,LTD.
www.gmps.co.kr