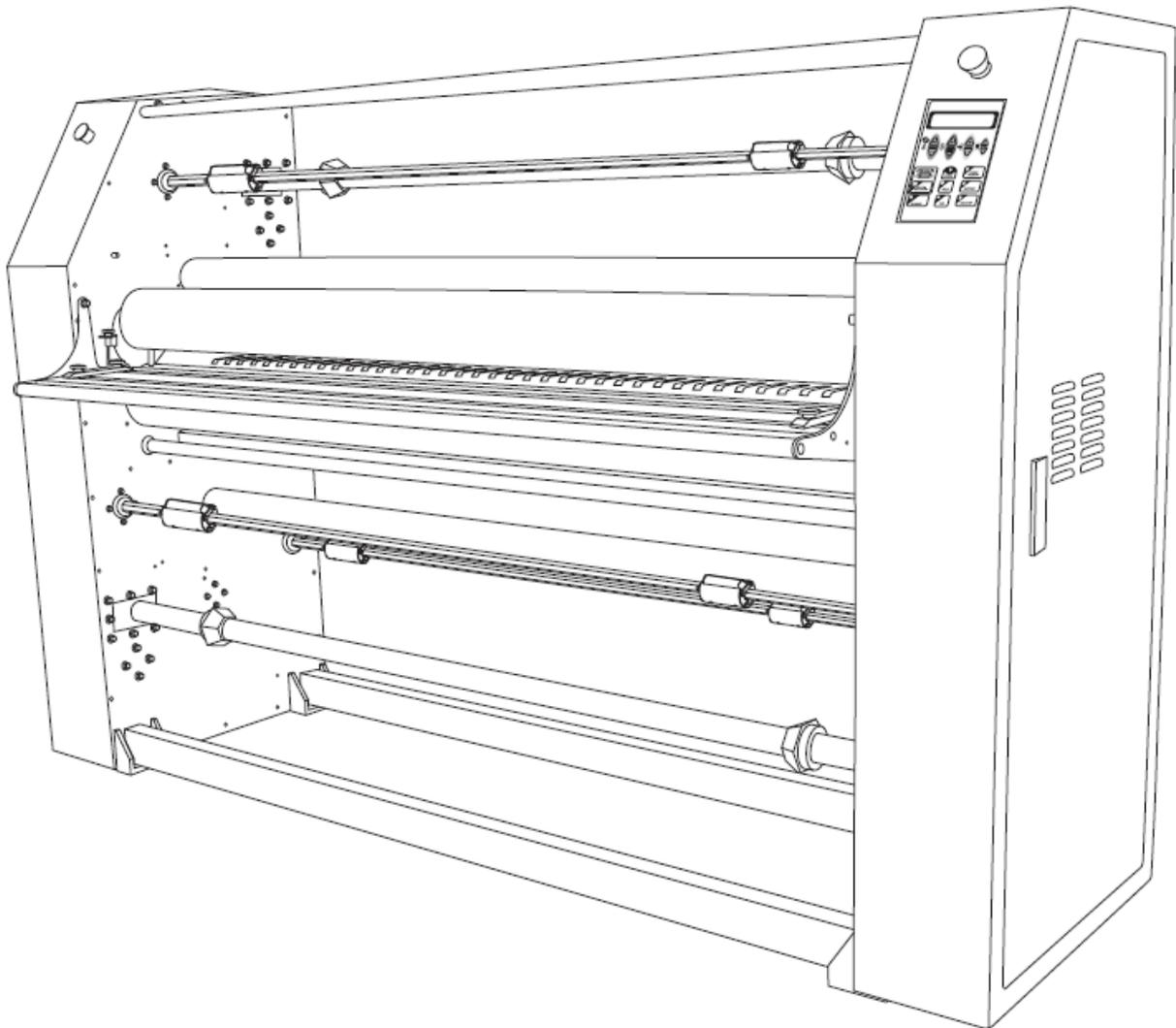


# KITE-63HC

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## Instruction Manual



## Preface

Thank you very much for purchasing our [ **KITE-63HC** ].

This Instruction Manual (booklet) includes details for safe use of this product.

Please read this booklet thoroughly and correctly use the machine.

Also, store this booklet properly for immediate use when necessary while using the product.

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# KITE-63HC

## Precautions before Use

### Meaning of symbols

This document classified and explains hazards and damages created when the displayed symbols are neglected and the product is used improperly, to prevent danger on customers or others and property damage in advance.

|   |   |
|---|---|
|  <b>Warning</b>  | When this sign is neglected and the product is handled improperly, there is a concern for death or sever injury of human beings.                              |
|  <b>Caution</b>  | When this sign is neglected and the product is handled improperly, it can result in human injury or physical damage.  |
|  This symbol represents matters that must be followed due to concern for injury. |  This symbol represents prohibition of disassembly for safety.               |
|  This symbol represents removal of power plug from outlet for safety.            |  This symbol represents prohibition of touching the product with wet hands.  |
|  This symbol represents instruction to connect the earth wire for safety.        |  This symbol represents prohibition of the product from getting wet.         |
|  This symbol is a caution about danger of hand getting caught by roller.        |  This represents expectation of electric shock when handled improperly.     |
|   |  This represents expectation of smoke or ignition when handled improperly. |

## Precautions while handling



### Warning

|   |  |
|---|--|
|    | Only use the power cord included in the product and do not use with power sources other than the displayed.  |
|   | Do not place heavy object on top of power cord, connect nearby a heating device, or connect multiple power cables to an outlet.  |
|    | Do not process power cord or use as damaged.   |
|   | Accurately insert to the tip of electrode part.  |
|    | Hold the plug when inserting power plug. Excessive bending, twisting or pulling of the cord can damage the cable interior and cause electric shock, fire or failure.<br>※ If power cord is damaged, contact our company or the seller.   |
|    | Regularly remove power plug from the outlet to clean the electrode root and gap. Do not insert power plug with dusts and alien substances attached.  |
|    | Do not install this product in places with high temperature and humidity or poor ventilation, places with combustible and explosive gases or toxic gases, places with large volume of dusts, and on top of flammable objects. Also, install at least 50cm away from the wall when installing this product nearby a wall. |
|    | Do not approach the product near a firearm or high temperature. Do not insert metals, flammables, and liquids into the machine.  |
|   | Do not disassemble or remodel the machine.   |
|  | Do not use in abnormal status such as smoke or abnormal odor and sound. When such status occurs, immediately turn off the power switch. Remove power plug from the outlet and contact the seller or our company. Never repair the product on your own as it is dangerous.  |



### Caution

|   |  |
|---|--|
|  | Power plug must be removed from the outlet when not used for long time.  |
|  | Do not insert power plug using wet hands.  |
|  | Earth connection must be done before connecting power plug to power. Also, remove power plug before disconnecting earth.   |
|   | Especially, keep away from children.   |
|   | Do not mount on the product or place heavy object on top.  |
|  | Do not place this product in an unstable place (on top of vibration or slanted surface and places where vibration of other machines can be easily delivered). There is a concern for injury of a nearby person from falling or tripping. |
|   | Do not place the product in front of wind from air conditioner.  |
|  | Do not block the vent hole. If the vent hole is blocked, there are concerns for failure or fire from accumulation of heat inside.  |
|  | During operation of the machine or insertion of laminate, be careful about hair, necktie and necklace from rolling in.   |
|   | When film glue is attached to the laminate roller, squeeze a cloth soaked in neutral detergent and wipe the roller. (※ Do not clean the roller using benzene, thinner and sponge.)   |
|  | The rollers must be lifted up when laminate processing is not being performed.   |
|   | Cover with a cloth when the machine is not used to avoid places with direct light or fluorescent light. Light can rapidly degenerate rubber of the laminate roller.  |
|  | Turn the power switch off and remove power plug from the outlet for safety during transportation of this product.  |

# KITE-63HC

## Places appropriate for installation

Install this product in the following places.

- **Horizontal and stable places**

Slanted or unstable use can have bad impact such as return of paper.

Also, there is a concern for an unexpected accident.

- **Places where exclusive power outlet can be secured**

Do not use this product with power sources other than power with rated voltage regulated in this Manual.

There is concern for fire or electric leakage.

Also, earth or earth leakage breaker must be installed.

- **Places with no humidity and good ventilation**

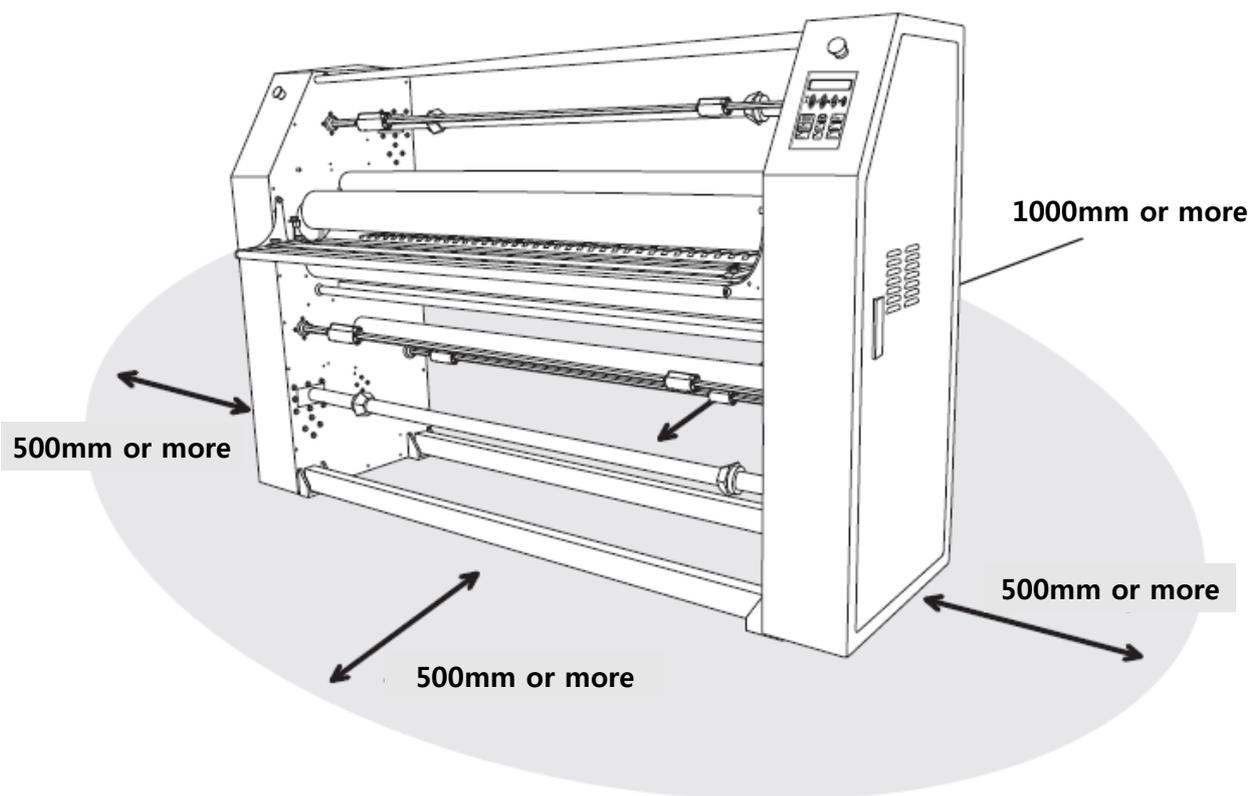
Installation of this product in a place with high humidity is a cause of electric leakage or failure.

Avoid outdoor places, places with direct light or wind from air conditioner, and places with large volume of dusts for installation.

- **Workability**

Secure sufficient space for work convenience.

Do not install too close to walls. If possible, it is optimal to secure enough space for a person to pass.



## Characteristics of Product

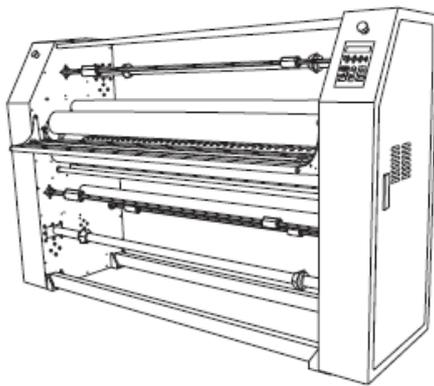
- Temperature control by far-infrared sensor and micro computer
- Motor pressurized roller system
- Speed of laminate processing can be adjusted stepwise
- Multi-functional foot switch (rotate/stop, forward rotation, reverse rotation, vertical movement of rollers)
- Standby mode used to reduce waiting time and for power conservation
- Strong cooling system
- Advanced memory function remembers up to 10 settings
- Cold-rolled processing possible in both top and bottom directions
- Convenient product wrapping device
- Reserve film shaft

## Confirmation of Parts

The main body includes the following parts and documents.

If some parts are missing, contact a nearby branch of our company or the seller of purchase.

### Components included in the main body



**KITE-63HC** main body

|                               |   |
|-------------------------------|---|
| Film shaft (thick)            | 2 |
| Film shaft (thin)             | 3 |
| Paper tube holder (tube)      | 6 |
| Paper tube holder (hexagonal) | 4 |



Hexagonal wrench  
【Thin】 for paper tube holder  
【Thick】 standard

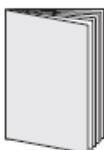


Reserve fuse 1



Foot switch

### Separate parts

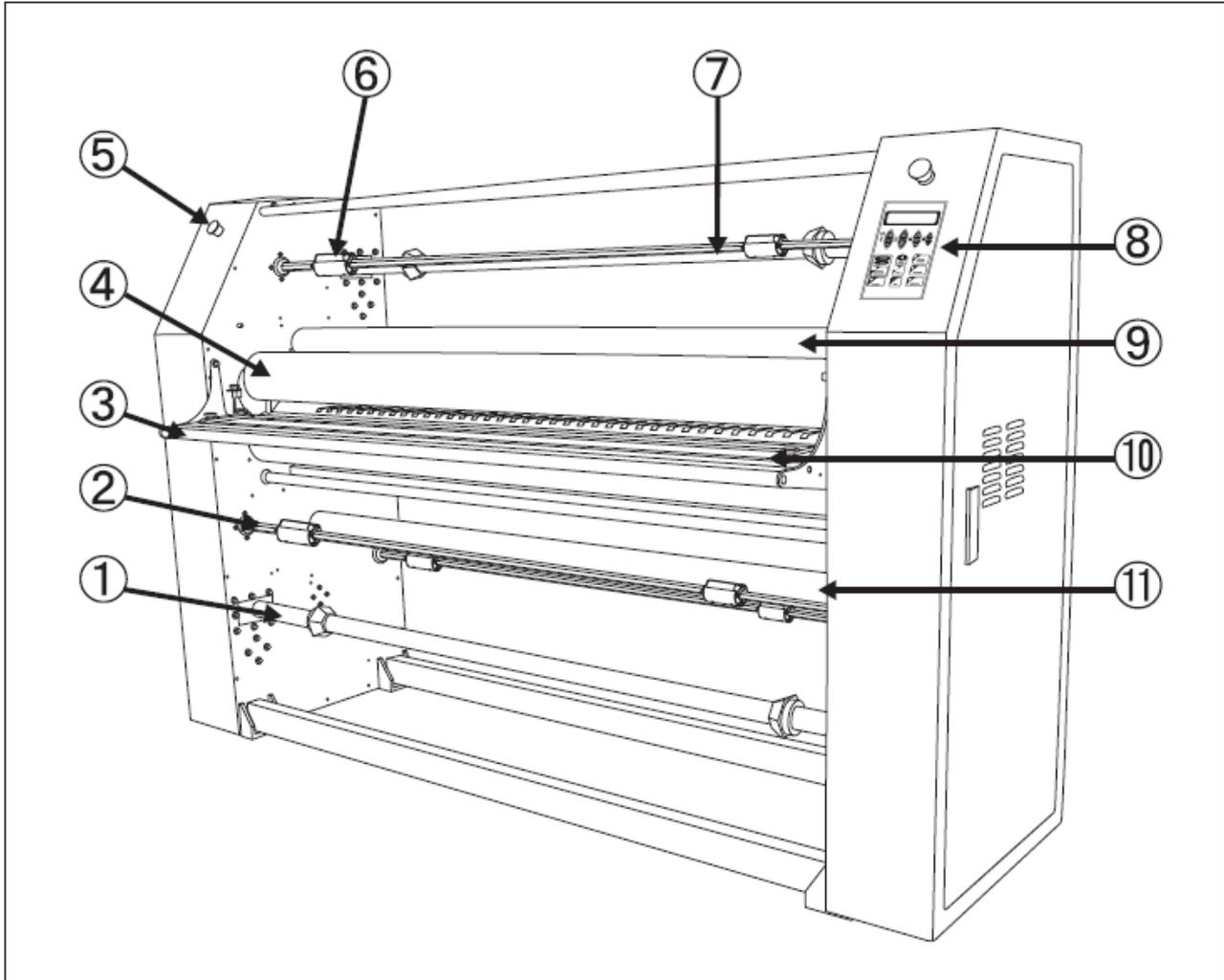


**Instruction Manual**  
(This Document)

# KITE-63HC

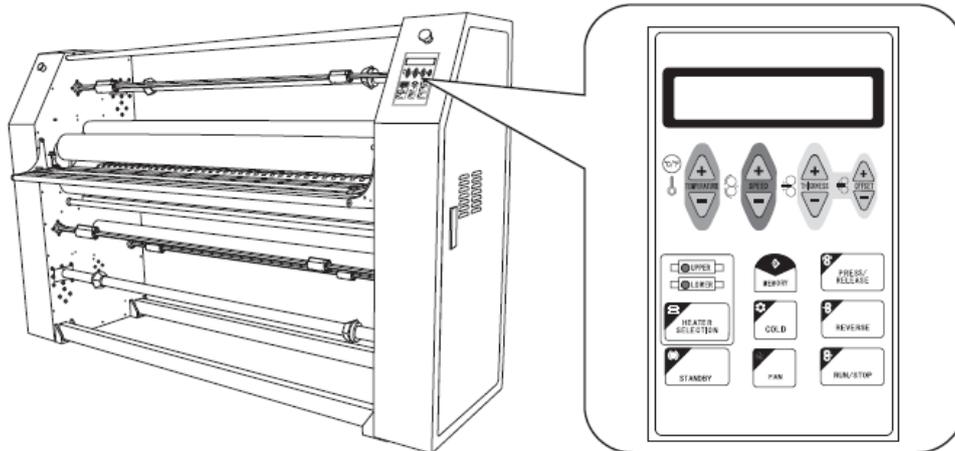
## Name of Each Part

### Main body of KITE-63HC

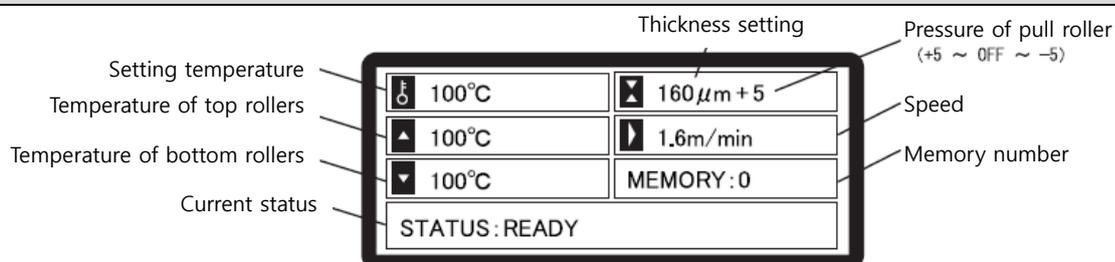


- |                           |  |
|---------------------------|--|
| ① Film shaft (bottom)     | ② Cold-rolled film wrapping shaft (bottom) |
| ③ Under-film idle shaft   | ④ Heat roller                              |
| ⑤ Emergency stop switch   | ⑥ Cold-rolled film wrapping shaft (top)    |
| ⑦ Film shaft (top)        | ⑧ Operation panel                          |
| ⑨ Tension roller (top)    | ⑩ Front direction board                    |
| ⑪ Tension roller (bottom) |  |

## Operation Panel



### LCD panel



### Explanation of status

#### READY

This is displayed when the product is prepared to perform laminate processing.

#### WAIT

This is displayed when the rollers have not reached the setting temperature.

#### RUN

This is displayed when **[RUN/STOP]** button is pressed after preparation is complete.

#### LOW TEMPERATURE

This is displayed when roller temperature is lower than setting temperature by more than 12°C during laminate processing.

#### ERROR

Error display refers to problem in the temperature sensor or overheating of roller at 180°C.

#### CHECK EMG S/W

This is displayed when emergency stop button is pressed.

All functions stop including the heater, and only the following functions can be controlled.

- Forward or reverse rotation of rollers, only while the button is pressed
- Vertical adjustment of rollers

Emergency status is released by turning the emergency stop button to the right.

#### CHECK TABLE

This is displayed when the installation position of front direction board is improper.

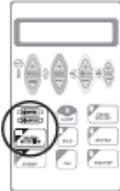
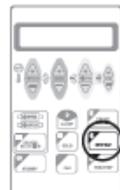
All functions stop including the heater, and only the following functions can be controlled.

- Forward or reverse rotation of rollers, only while the button is pressed
- Vertical adjustment of rollers

This status is released by confirming the installation position and correcting the position.

# KITE-63HC

## Explanation about buttons on operation panel

|  |  |
|--|--|
|  <p><b>【°C/°F】 button</b><br/>This button is used to switch between Celsius and Fahrenheit displays.</p>  |  <p><b>【TEMPERATURE】 button</b><br/>This is temperature setting button.<br/>Refer to below to set temperature.<br/>HOT mode ⇒ 80 ~ 140°C<br/>COLD mode ⇒ 30 ~ 50°C</p>  |
|  <p><b>【SPEED】 button</b><br/>This is speed setting button.<br/>Refer to below to set speed.<br/>HOT mode ⇒ 0.5 ~ 3.0m/min<br/>COLD mode ⇒ 0.5 ~ 3.0m/min</p>   |  <p><b>【THICKNESS】【OFFSET】 button</b><br/>This is button to adjust pressure of rollers.<br/>Set the value according to the paper and film to be processed.<br/>※ For cold film processing, set the OFFSET value to OFF.</p>   |
|  <p><b>【HEATER SELECTION】 button</b><br/>In HOT mode, this button switches to the heated roller.<br/>There are 4 steps of switching, including top and bottom rollers, only top rollers, only bottom rollers, and top and bottom OFF.</p>   |  <p><b>【MEMORY】 button</b><br/>Temperature setting can be recorded in 0~9.<br/>Refer to below for the method.<br/>① Press MEMORY button for long.<br/>② Select the value to be saved.<br/>③ Set temperature, speed and thickness.<br/>④ Press MEMORY button for long.</p> |
|  <p><b>【PRESS/RELEASE】 button</b><br/>This is vertical roller control button.<br/>Roller is lifted if pressed when it is completely down. Roller is automatically pulled down to the setting position if pressed when it is completely up.※ Pressure is automatically set when roller is pulled down. Setting can be changed during processing, but roller cannot be moved vertically.</p> |  <p><b>【COLD】 button</b><br/>This button is used to switch between HOT mode and COLD mode.</p>   |
|  <p><b>【REVERSE】 button</b><br/>This is reverse rotation button for the roller.<br/>Use this button when the processed material is caught by the roller.</p>  |  <p><b>【STANDBY】 button</b><br/>The machine enters standby mode by pressing the button, maintaining the temperature below. Both main and fan motors will stop.<br/>HOT mode ⇒ 70°C<br/>COLD mode ⇒ 30°C<br/>Press another button to release this state.</p>             |
|  <p><b>【FAN】 button</b><br/>This is cooling fan button.<br/>The fan starts to rotate when this button is pressed and stops when pressed while rotating.</p>   |  <p><b>【RUN/STOP】 button</b><br/>This button runs or stops the machine.<br/>If the button is pressed for long when the roller is at stop, the roller will rotate only while the button is pressed.</p>  |

## Foot switch

This product is not only controlled using operation panel but can control specific functions by pressing the included foot switch for short or long. Black marks below refer to the length of time for which the foot switch is pressed.

|     |   |
|-----|---|
| ●   | : Roller rotates or stops when pressed once shortly with roller at stop.  |
| ■   | : Roller rotates while being pressed if pressed for long with roller at stop.   |
| ● ■ | : Reversely rotates while being pressed if pressed for short and for long with roller at stop                                   |
| ● ● | : Roller is lifted when pressed twice shortly with roller down, and descended when pressed twice shortly with roller lifted up. |

## Before Laminate Processing

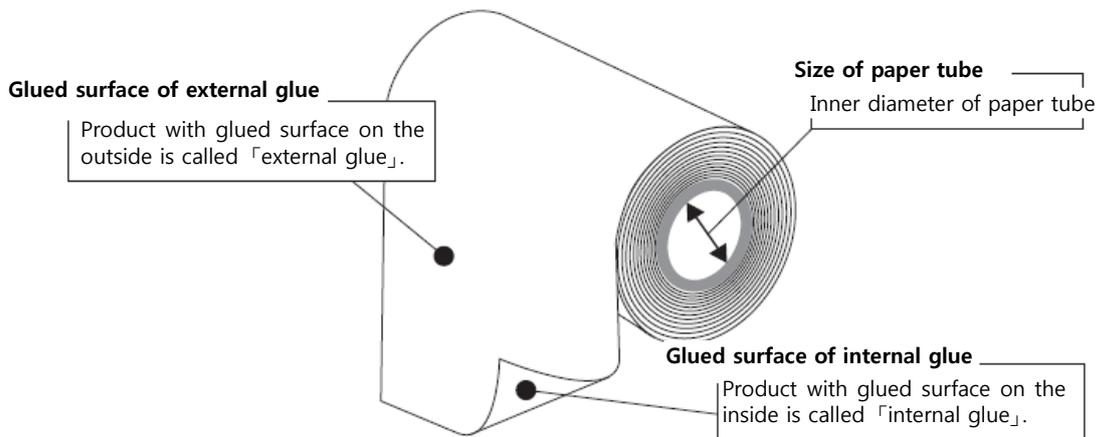
### About laminate film

There are two types of laminate film, 「roll type」 and 「pack type」.

This product uses 「roll type」 laminate film.

※ 「Pack type」 laminate film cannot be used.

|  |  |
|--|--|
| <b>Thickness (μ)</b>                       | This is thickness of the laminate film. Use according to the purpose.<br>There are diverse types of laminate films used in this product between 20μ~250μ.  |
| <b>Size of paper tube (inner diameter)</b> | Size of paper tube differs according to structure of the laminator.<br>2-inch and 3-inch paper tubes can be used on this product.  |
| <b>Type of roll film</b>                   | <p><b>Hot-roll film</b><br/>Heat is applied to melt glue and attach paper to the film.</p> <p><b>Cold-roll film</b><br/>Glue is applied on the outside of the film and separation paper (exfoliation) is attached to the glued surface. The paper is removed using wrapping device while pressing the film with rollers.</p> |
| <b>Glued surface (Inside and outside)</b>  | It is expressed as inside glue and outside glue depending on whether the glued surface on the laminate film is on the inside or outside when entering the roller.<br><p><b>⚠ Caution</b><br/>Incorrect direction of the film can result in attachment of glue to the roller and damaging of the roller.</p>                  |



### ⚠ Precautions while handling laminate film

- Do not place laminate film in places with high temperature and humidity.
- When laminate is not used, store the film in film shelf or box.
- Use films appropriate for the laminator.
- If a problem is found in the film before use, do not use it and contact the seller.  
Reckless use can cause failure of the laminator.

### Materials that can be laminated

Different laminators have different materials (papers) that can be laminated.

This product can also laminate 「photographs」 and 「colored printouts」 with the help of heating structure in the internal rollers, but there are materials (inappropriate) for laminate.

- Things written using crayons (there are crayons that are liquefied when heated)
- Thermal or pressure sensitive papers deformed or damaged by heat or pressure
- Objects that are not papers (they can damage the machine)

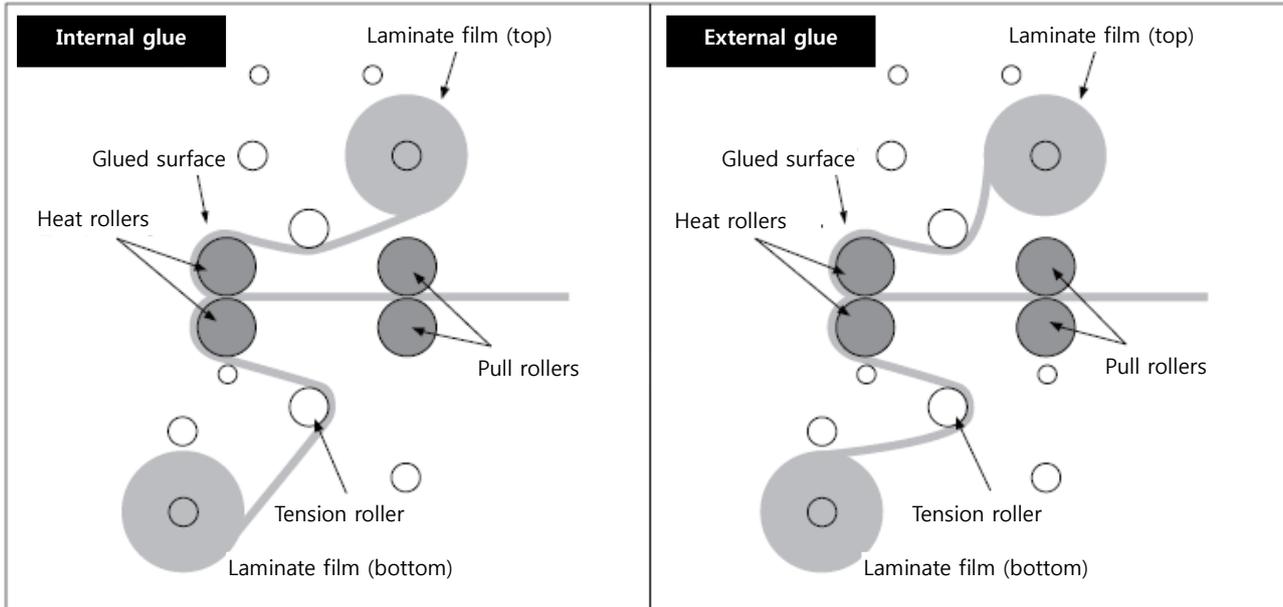
# KITE-63HC

## Hot-rolled Laminate Processing

### Installation and processing of hot-rolled laminate film

Refer to the figure below to install top and bottom laminate films.

- ※ Turn the heater off during installation because it is dangerous.
- ※ Do not use the wrapping device.



#### [1] Stand the direction board against the stopper and install the film.

- ① Fix the tip using screws to prevent the direction board from falling off.  
Since it starts operating when the front part is lifted up, slowly lift and stand against the stopper.
- ② Check the direction of glued surface of the film and install the film by inserting into film shaft.  
Paper tube holder is fixed by tightening with hexagonal wrench.
- ③ Refer to the figure above to pass the film from the back of tension roller to the heat and pull rollers.

#### [2] Install the film and return the direction board to its original position.

- ① Check the direction of glued surface of the film and install the film by inserting into film shaft.  
Paper tube holder is fixed by tightening with hexagonal wrench.
- ② Refer to the figure above to pass the film from the back of tension roller to the heat and pull rollers.
- ③ Lift the front side of the direction board and slowly descend until it touches the stopper.
  - ※ If the direction board is installed incorrectly, **【CHECK TABLE】** is displayed on LCD.  
Heater cannot be turned ON when this error is displayed.  
Recheck the position and accurately install.

#### [3] Set according to the paper to be processed.

- ① Turn the heater ON and set temperature, speed and pressure according to the laminate film or paper to be processed.
- ② When **【READY】** is displayed on LCD, descend the roller using the button and only operate as laminate film status.
- ③ Perform test processing to check occurrence of problems such as wrinkles in the outcome.

- When wrinkles are formed  
Laminate film may have been installed incorrectly. Install the film so that it does not droop. Also, make sure that the laminate film is stretched out by applying film brake on the shaft.
- When the film turns white  
Processing speed may be too fast or roller temperature can be too low. If the paper is inserted in this status, the outcome can be turned white. Slightly increase roller temperature or decrease laminate speed and repeat the test processing.
- When the film is crumpled  
Laminate speed may be too slow or roller temperature can be too high.  
Slightly increase laminate speed or decrease roller temperature and repeat the test.



## Caution

- Above explanations show general symptoms.  
Since temperature and speed settings defer according to the material being processed, we recommend performing test processing before processing an important paper.

## [4] Perform laminate processing of the paper.

- ① Processing is completed by passing the paper as the laminate film comes out.



## Caution

- When laminate processing is not being performed, lift the rollers UP.  
If the rollers are left intact in down position, they can be damaged.
- When the heater is ON, surface temperature of rollers gets high. Do not touch the rollers.
- During rotation of the rollers, be sufficiently careful about fingers, hair and clothes from rolling into the rollers.

# KITE-63HC

## Cold-rolled Laminate Processing

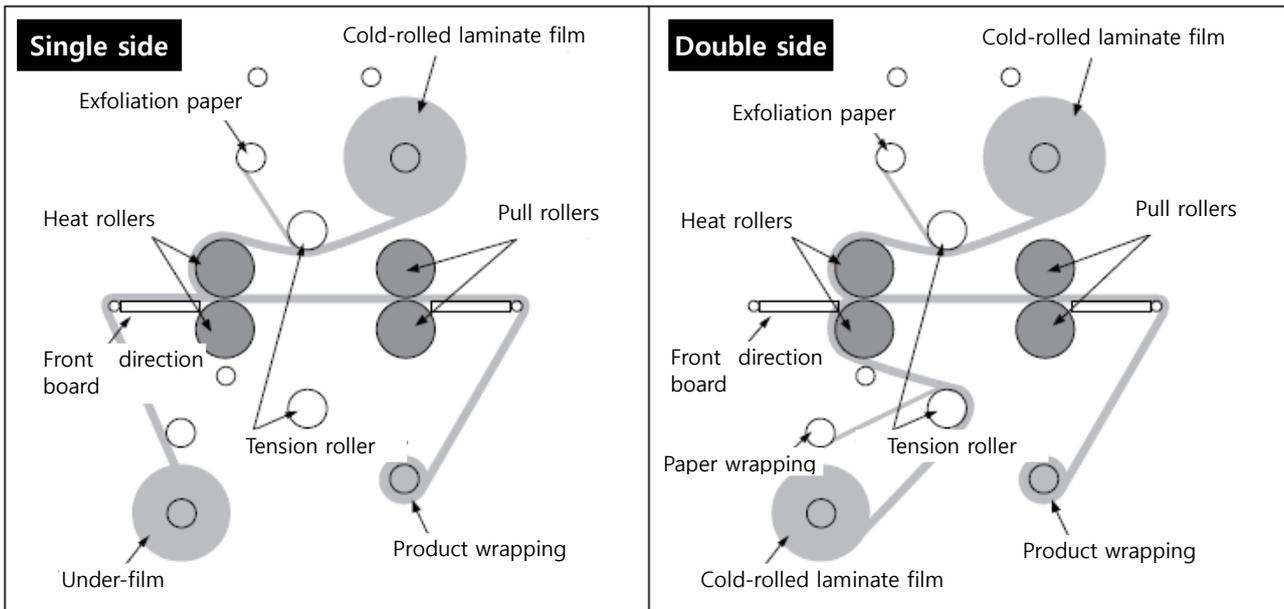
### Installation and processing of hot-rolled laminate film

Refer to the figure below to install the laminate film.

※ During cold-rolled process, select OFF / top heater / bottom heater / top and bottom heaters depending on the situation.

※ Set OFFSET button to OFF since pull rollers are not used.

However, this may change depending on the processing condition.



#### [1] Switch to COLD mode and install the film below.

- ① Press COLD button on the operation panel and change the mode to COLD.
- ② Pass empty paper tube through the exfoliation paper wrapping shaft and product wrapping shaft and fix using paper tube holder.

#### ③ Single side processing

Pass the under-film from front direction board to heat rollers, pull rollers, and back direction board.

#### ③ Double side processing

Refer to the figure above and pass the cold-rolled film from back of tension roller to heater rollers.

#### [2] Install cold-rolled film.

- ① Check whether the glued surface of the film is in the correct status and insert the film into film shaft for installation. Paper tube holder is fixed by tightening with hexagonal wrench.
- ② Refer to the figure above to pass the film from back of tension roller to heat rollers.
- ③ Remove exfoliation paper from cold-rolled film and attach to the paper tube installed on paper wrapping shaft using tape.
  - ※ Exfoliation paper is attached to the paper tube. Be careful as the film cannot be installed as in the above figure if it is passed through the film shaft in incorrect direction.

#### ④ Single side processing

Attach cold-rolled film to the under-film and rotate the roller. After sending the film to the back direction board, attach to the paper tube installed on paper wrapping shaft using tape.

#### ④ Double side processing

Attach exfoliation paper for the cold-rolled film below and send the film from heat rollers to pull rollers and back direction board while being careful not to cause difference. Attach to the paper tube installed on paper wrapping shaft using tape.

## [3] Set according to the paper to be processed.

- ① Set temperature, speed and pressure according to the laminate film installed or paper to be processed.
- ② When **【READY】** is displayed on LCD, descend the roller using the button and only operate as laminate film status.
- ③ Perform test processing to check occurrence of problems such as wrinkles in the outcome. Refer to below when a problem occurs to make detailed adjustment of the setting.

| Criteria for cold-rolled laminate processing |                                 |                              |                         |             |
|--|---------------------------------|------------------------------|-------------------------|-------------|
| Film Thickness                               | Thickness of Processed Material | Setting                      |                         |             |
|  |                                 | Temperature                  | Speed                   | Pressure    |
| 160μ ~ 400μ                                  | With 900mm<br>(50g ~ 350g)      | OFF setting<br>(10°C ~ 40°C) | 1.1m/min ~<br>2.0m/min* | 250 ~ 400um |

\* If speed is too low, wrinkles can be formed.

- When wrinkles are formed  
Laminate film may have been installed incorrectly. Install the film so that it does not droop. Also, make sure that the laminate film is stretched out by applying film brake on the shaft.
- When the film turns white  
Processing speed may be too fast or roller temperature can be too low. If the paper is inserted in this status, the outcome can be turned white. Slightly increase roller temperature or decrease laminate speed and repeat the test processing.
- When the film is crumpled  
Laminate speed may be too slow or roller temperature can be too high.  
Slightly increase laminate speed or decrease roller temperature and repeat the test.

### Caution

- Above explanations show general symptoms. Temperature and speed settings defer according to the material being processed.
- We recommend performing test processing before processing an important paper.

## [4] Perform laminate processing of the paper.

- ① Processing is completed by passing the paper as the laminate film comes out.

### Caution

- When laminate processing is not being performed, lift the rollers UP. If the rollers are left intact in down position, they can be damaged.
- During rotation of the rollers, be sufficiently careful about fingers, hair and clothes from rolling into the rollers

## Repair and Inspection

This product is composed of various rollers, and they must be cleaned with use.

Laminate can be maintained as desirable by cleaning the rollers.

### Cleaning of roller

#### ● Heat rollers

Small amount of glue can leak out of the film section and attach to the roller during laminate processing. If glue remains on the rollers, it can degenerate quality of laminate process or cause failure. The rollers must be regularly cleaned.

- ① Lift the front side of the front direction board and slowly lift to the position of fixing device.
- ② Perform forward and reverse rotations to check for contamination of rollers.
- ③ Wipe out with soft cloth or wipe glue and contamination out using antiseptic ethanol or alcohol. Do not use solvent thinner and benzene as they can deform or discolor the rollers.

#### ● Other rollers

Other rollers are cleaned as identical to heat rollers as paper scraps and dusts can attach to rollers.

#### Caution

- Stop the rollers when cleaning.
- Do not clean the rollers using hard objects like steel wool as they can damage rollers.
- Do not inflict force on rollers for long time.
- Do not clean rollers using thick paper, which is occasionally found in pack type laminators. Thick paper can block the device and cause damage or failure. Likewise, do not use thin paper to clean rollers. Paper can roll into rollers, causing failure.

### Cleaning of paper tube holder

If paper tube holder is continuously used for long time, the tube part is smudged by paper dust and cannot exhibit its intended performance.

When cleaning the tube holder, wipe out using soft cloth or wipe the contaminated part using cloth after completely squeezing water out. Here, tube can be ripped or damaged when excessive force is applied or cleaned using objects other than cloth.

#### Caution

- Since paper tube holder is heavy, be careful about dropping it onto the ground.
- Since it is especially easy for hands to get cut nearby the tube of paper tube holder, be sufficiently careful while cleaning.

### Cover the product after use

After using this product, cover it with a large cloth to entirely cover the main body and avoid dusts.

## Troubleshooting for Failures

The following must be kept in mind while using this product.

### Power does not turn on or machine does not function

- **Insert outlet plug and check power switch**  
This product is used with 3-phase 230V. Makes sure that the outlet plug is correctly connected.  
Check whether power switch on the rear side is turned on.  
If the power cord is disconnected by scratch, contact our company or the seller.
- **Check disconnection of fuse**  
If it is disconnected, replace with a new fuse with identical spec.  
When the same symptom continues to occur, contact our company or the seller.
- **Heater or light projector is used nearby, or long drum (cord reel) is used**  
When such products are used, use different power system.  
If a drum is used, separate the drum and connect this product.
- **When overloaded**  
Motor protection circuit may be on.  
Turn the power off and resupply power after 10 seconds.
- **When abnormal sound is created by motor**  
If abnormal sound is created by the motor, the saw-tooth is damaged or screw is loosened.  
Contact our company or the seller.

### It malfunctions or power immediately turns off

- **There is problem in wiring**  
Contact our company or the seller.
- **PCB malfunctions due to static electricity generated inside the machine**  
Turn the power off first and then turn it on again.

### Wrinkles form on the material or it is meandered

- **Laminate film and under-film are not installed properly**  
Refer to P 10 ~ 13 of this document for correct installation.
- **Tension is too weak**  
Increase tension.
- **The machine is installed on a slanted surface**  
Reinstall the machine on a flat surface.

### Processed material does not go in or come out

- **Did you insert a paper too thick?**  
Thickness of the paper that can be processed by this product is up to 30mm, including the film. When a thicker paper is inserted, rollers may not rotate or the product can be damaged. Do not process papers thicker than the regulated thickness.  
Do not insert hard objects like metals even if their thickness is within 30mm.
- **Is the film or paper rolled into a roller?**  
When a portion of the paper remains in the insertion part, press REVERSE button and pull the paper out.  
Do not pull too strongly as it can cause failure of the machine.  
Contact the seller or our company when the paper has completely rolled up into the machine.

# KITE-63HC

## Others

### Product Specification

|                          |  |
|--------------------------|--|
| Max. laminating width    | 1600mm                                       |
| Max. substrate thickness | 25mm   |
| Paper tube size          | 2inch or 3inch                               |
| Max. laminating speed    | Max. 3.0m/min                                |
| Heating method           | Far-infrared heater method                   |
| Processing temperature   | HOT mode: 80 ~ 140°C<br>COLD mode: 30 ~ 50°C |
| Roller clearance         | Electrical 17 settings                       |
| Power requirements       | 3phase 400V 5000W                            |
| Size (W×D×H)             | 2211 × 771 × 1456 (mm)                       |
| Weight                   | 540kg  |

※ Details in this document can be changed without notice to make improvements on the product.