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Confidential

Model Name WR-90

Product Name Coin Wrapping Machine

Manual Name INSTRUCTION MANUAL

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11	- -		
12	- -		
13	- -		
14	- -		
15	- -		
16	- -		

GLORY

WR-90

Coin Wrapping Machine

INSTRUCTION MANUAL



■ Forward

Thank you for selecting the GLORY COIN WRAPPING MACHINE.

This instruction manual contains the operation procedures and precautions for using the machine.

Before using this product, read this instruction manual to understand the safety precautions, performance and operating procedures for this machine.

After reading this manual, keep it handy for future reference.

■ Notice

This product has been developed to provide improved efficiency in coin counting and wrapping.

GLORY does not accept liability if this product is used for other than the intended purpose without our permission, or modified by any person other than a GLORY employee or authorized subcontractor. For installation and transport of this product, consult an authorized distributor or your sales representative.

EMC-Regulations

Emission

This product complies with the following Emission Standards:

AC100-120V : FCC Part15

AC220-240V : CISPR22, EN55022

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CISPR22, EN55022 Notice

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Harmonic Current Standards

This product complies with the following Harmonic Current Standards:

AC100-120V : IEC61000-3-2

AC220-240V : EN61000-3-2

Limitation of Voltage Fluctuations and Flicker Standards

This product complies with the following Limitation of Voltage Fluctuations and Flicker Standards:

AC220-240V : EN61000-3-3

Immunity Standards

This product complies with the following Immunity Standards:

AC220-240V : CISPR22, EN55024

- **This product was designed and manufactured to handle only coins that are designated by the specification. Do not use it for other than the intended purpose.**
- **This product was designed and manufactured to be used only in the specified countries. It cannot be used in other countries due to different power supply specifications or safety regulations.**
- **The contents of this manual are subject to change without prior notice.**
- **GLORY makes a continuous effort to improve the product. This may result in minor difference between the actual product and the contents in this document.**
- **GLORY shall not be responsible for any damage to a third party's patent or other rights resulting from use of the data contained in this manual.**
- **GLORY does not accept any liability for damages caused by deformation, breakage, deterioration or theft of coins or criminal acts such as forgery, alteration or vandalism.**
- **This document may not be reprinted for commercial purposes without our permission.**

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For Safe Operation

This section describes safety precautions to be strictly observed in order to use the product safely and prevent physical injury or damage to property.

Please read this instruction manual carefully to fully understand its instructions for correct use.

Safety Symbols

Safety labels and this document use the symbols, Warning and Caution, to indicate a dangerous situation caused by erroneous handling.



WARNING

Indicates cases where erroneous handling by ignoring labels may lead to a dangerous situation that accompanies the possibility of serious injury.



CAUTION

Indicates cases where erroneous handling by ignoring labels may lead to a dangerous situation that accompanies the possibility of light injury or only material damage.



This mark warns the user that there are safety precautions to be observed in handling the product. Read the instructions carefully and use the product safely.



This mark indicates what the user **SHOULD NOT DO**. Read the instructions carefully and never attempt to do the prohibited matters.



This mark indicates what the user **MUST DO**. Read the instructions carefully and observe them without fail.



Before Use-General Safety Instructions



WARNING

Installation



For installation and transport of this product, consult an authorized distributor or your sales representative. Improper installation may cause the machine fall over or result in fire, electric shock or burn injury.



Do not install the product in locations subject to water splashes. If the product gets wet, insulation deteriorates, resulting in fire or electric shock.



Provide sufficient space for installation so that the doors and covers can be opened/closed and the product can be easily operated. If the product hits the user, injury may result.



Install the product on a hard and flat surface that can support the weight of the product. Placing the product in an unstable, undulating or inclined location may result in a collapse of the floor or accidental movement of the product.



Make room for installation that is required by the instruction manual. Be sure not to block the ventilation hole. Otherwise, heat will accumulate inside the product, possibly resulting in fire.



Installation of ground fault circuit interrupter is required by electricity business act in some regions. Illegal and improper installation may result in an accident.



WARNING

Installation



Be sure to ground the product to assure safe operation and to prevent troubles caused by static electricity or electrical noises. Do not share the ground wire with another product. (The ground wire should be solely used only by the product.) Be sure to contact your sales representative for grounding work. Insufficient or no grounding may lead to electric leakage, resulting in fire or electric shock.



Do not place flammable material, gas or highly volatile material like thinner on, around or inside the product. Otherwise, it might result in explosion or fire because such materials can catch fire from heated parts or the power supply unit.



Do not install the product to the following places. Installing the product in such places not only presents a safety hazard, but also degrades the product in a short period, resulting in troubles.

- Place that is within 1 m from volatile material or curtains
- Place that is within 1 m from a heat source like a stove or a heater
- Place that is directly exposed to winds from an air conditioner or a ventilation hole.
- Place where the product is exposed to high/cold temperature and high humidity.
- Place subject to direct sunlight.
- Dusty location

Before attempting to install the product to the places like below, contact your sales representative.

- Place that is exposed to the sea breeze or corrosive gas
- Place subject to oscillation or vibration



WARNING

Power Supply



Before using the product, connect it to a power source specified by the instruction manual. Connecting it to a power source that is not specified, fire, electric shock or injury may result.



Do not use an extension cord or multiple plug adapter. Be sure to use an exclusive electrical outlet. Otherwise, the cord may overheat, possibly resulting in fire.



If the leakage breaker frequently trips, contact your sales representative. Using the product without taking any proper measure may cause fire or electric shock.



Fully insert the power plug securely into an electrical outlet. If it is not fully inserted, fire may result.



Do not modify or repair the power plug or cord. Do not convert a three-poled power plug into a two-poled one. Otherwise, electric shock may result because of insufficient grounding.



To prevent electric shock or fire due to a broken power cord, be sure to observe the following.

- Do not pull out the power plug by grabbing the cord.
- Do not place anything on the cord.
- Do not pass the cord near a heat source.
- Do not bend or pinch the cord.
- Do not step on the cord. Do not twist it.
- Do not allow chemicals to contact the cord.
- Do not use the cord in a bundled condition.
- Do not fix the cord with a stapler etc.



Do not use a power cord or plug that is not attached to this product. If a current higher than the rating flows in the power cable, fire may result.



Do not use the power cord and plug for other products. When they are lost or damaged, purchase new ones at your sales representative. The attached power cord and plug were designed and their safety was tested on condition that they are used for this product. Using these parts for other products or application, fire or electric shock may result.



WARNING

Handling



Use the product in an environment specified and described in the instruction manual. Fire or electric shock may occur if the product is used in an environment beyond the specifications.



Do not touch the product, plug, or power cord with wet hands. There is a danger of electric shock.



While the product is working, do not turn off the power, pull out the power plug or open the door. Otherwise, troubles may result.



Do not place a flower vase or glass containing water on the product. Poor insulation caused by water leakage inside the product may lead to fire or electric shock.



Do not use a spray containing combustible gas near the product. Otherwise, the gas can be ignited by electric parts, resulting in fire.



Do not allow the electric parts within the product to get wet with raindrops or cleaning liquid. Otherwise, electric shock or troubles may result.



Be sure to turn off the power before accessing the inside of the product for cleaning or parts replacement. Otherwise, electric shock or injury may result.



Do not turn on the air conditioner while the product is still cold. Water created by sudden temperature rise may cause electric shock.



Do not disassemble the product or mount modified parts on the product. Do not remove covers or parts that are fixed with screws in places not stated for opening or closing in the instructions. This may cause fire, electric shock, or injury.



Do not drop metal pieces such as paper clips and staples into or through gaps of the product. It may cause fire if metal pieces make contact with electric circuits inside the product.



Do not place your hand or a cloth on the moving parts of the product when it is working. Otherwise, injury (such as pinched or cut fingers) may result.



If the product is not used for a long time, be sure to disconnect the power plug from the outlet for safety. Otherwise, accumulated dust may cause heat, possibly resulting in a fire.



CAUTION

Handling



When the internal portions are opened/closed or pulled out/pushed in, follow the instructions described on labels and in this manual. If the product is erroneously operated, injury may result.



When closing the door, be careful not to pinch your fingers. Otherwise, injury may result.



When it is necessary to access the inside of the product for error cancellation or cleaning, follow the instructions of the manual. If the product is operated in a way that is not described in the instruction manual, troubles may result.



Do not touch gears. Otherwise, injury may result.



Do not make an impact to the product. Otherwise, it may be damaged and will not work properly.



Do not use chemicals like thinner or benzine to clean the product. Otherwise, damage may result.



When a cover or door is opened during operation, the safety switch is turned on, and the machine stops its operation. Do not touch the safety switch. If the switch is turned off, the machine may start operating suddenly, and injury (such as pinched fingers, or hit by parts) may result.



WARNING

／ Maintenance check



Contact your sales representative for product servicing. Improper servicing may cause fire, electric shock, or injury.



Stop use immediately if smoke, abnormal smell or unusual noise emanates from the product. Turn off the main switch, unplug from the electrical outlet, and then contact your sales representative. Continuous use or neglect may lead to fire or electric shock.



When the product is submerged by a flood or the like, stop use and contact your sales representative for servicing or inspection. Continuous use may cause fire or electric shock.



Inspect the plug and power cord regularly. If the plug is damaged or the power cord is broken, stop use and contact your sales representative for replacement. Continuous use may cause fire or electric shock.



Make sure that the product is stably installed. If something is wrong, contact your sales representative. Placing the product in an unstable condition may cause it to fall over and cause injury.

Safety Display Labels

* Safety display labels are marks, **⚠ WARNING** and **⚠ CAUTION** which are labeled on the equipment, especially in locations where special care is required in handling the product.

Read the instructions carefully and use the product safely.



⚠ CAUTION DON'T TOUCH THE PAPER FEED ROLLER WHILE PRESSING THE PAPER FEED SWITCH.
⚠ ATTENTION NE JAMAIS TOUCHER AU ROULEAU D'AVANCE PAPIER TOUT EN ACTIONNANT LE SWITCH CORRESPONDANT.

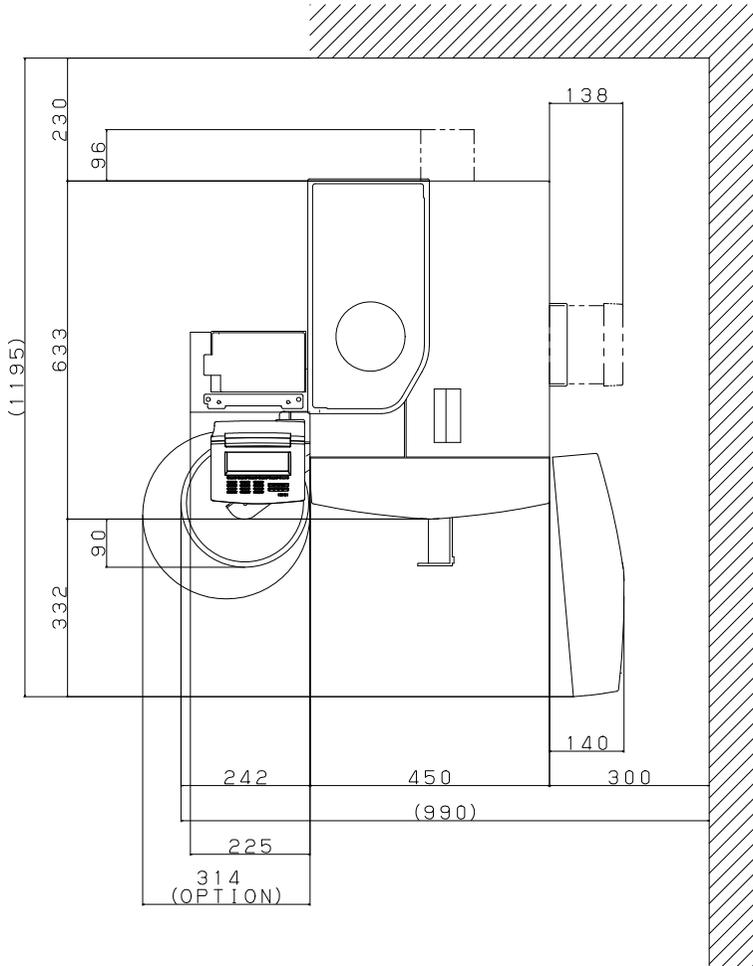
Press the paper feed switch to start the roller rotation. During rotation, do not touch the roller, or fingers may be caught and injured.

⚠ CAUTION DON'T TOUCH THE CUTTER.
⚠ ATTENTION NE PAS TOUCHER LE COUTEAU.

Do not touch the cutter, or you may be injured.

Prior to Use

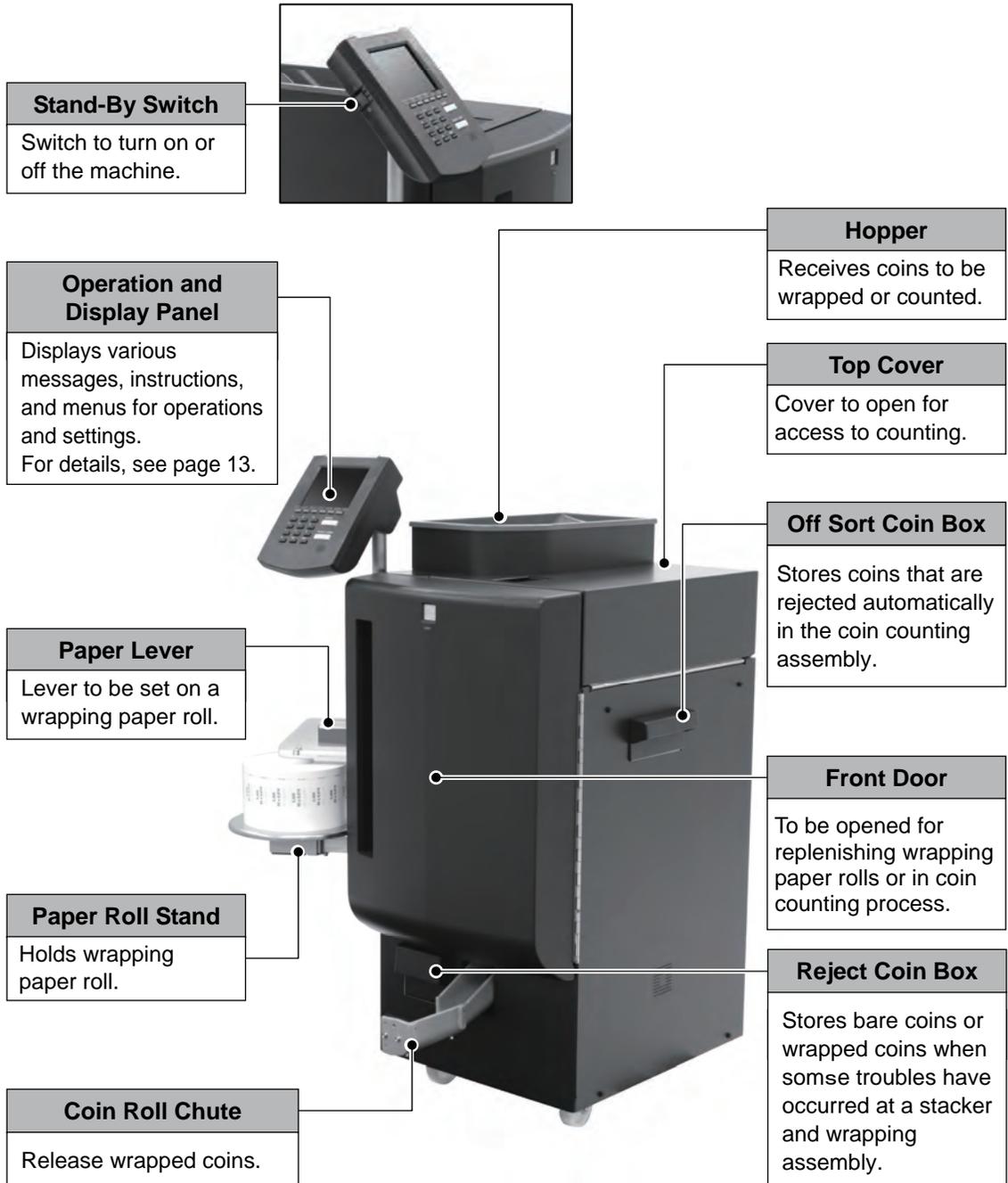
Installation Space



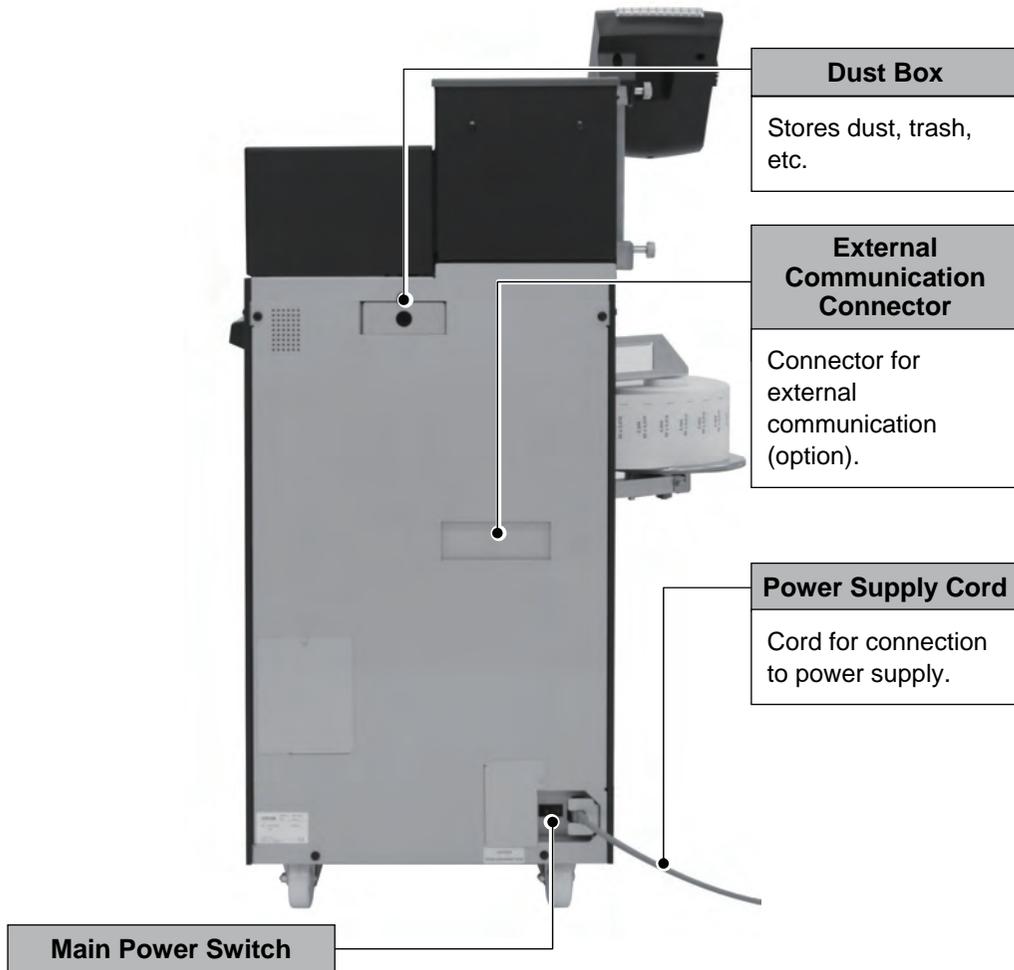
 WARNING	<p>Install the product on a hard and flat surface that can support the weight of the product. Placing the product in an unstable, undulating or inclined location may result in a collapse of the floor or accidental movement of the product.</p>	 Prohibited
	<p>Prior to the installation, ensure sufficient spaces available to the right and left (for paper roll stand and off sort coin box operations) and also behind the machine (for releasing heat from the machine). You may get injured if the space is insufficient.</p>	 Installation space

Names and Functions of Parts

Exterior Appearance [Front]

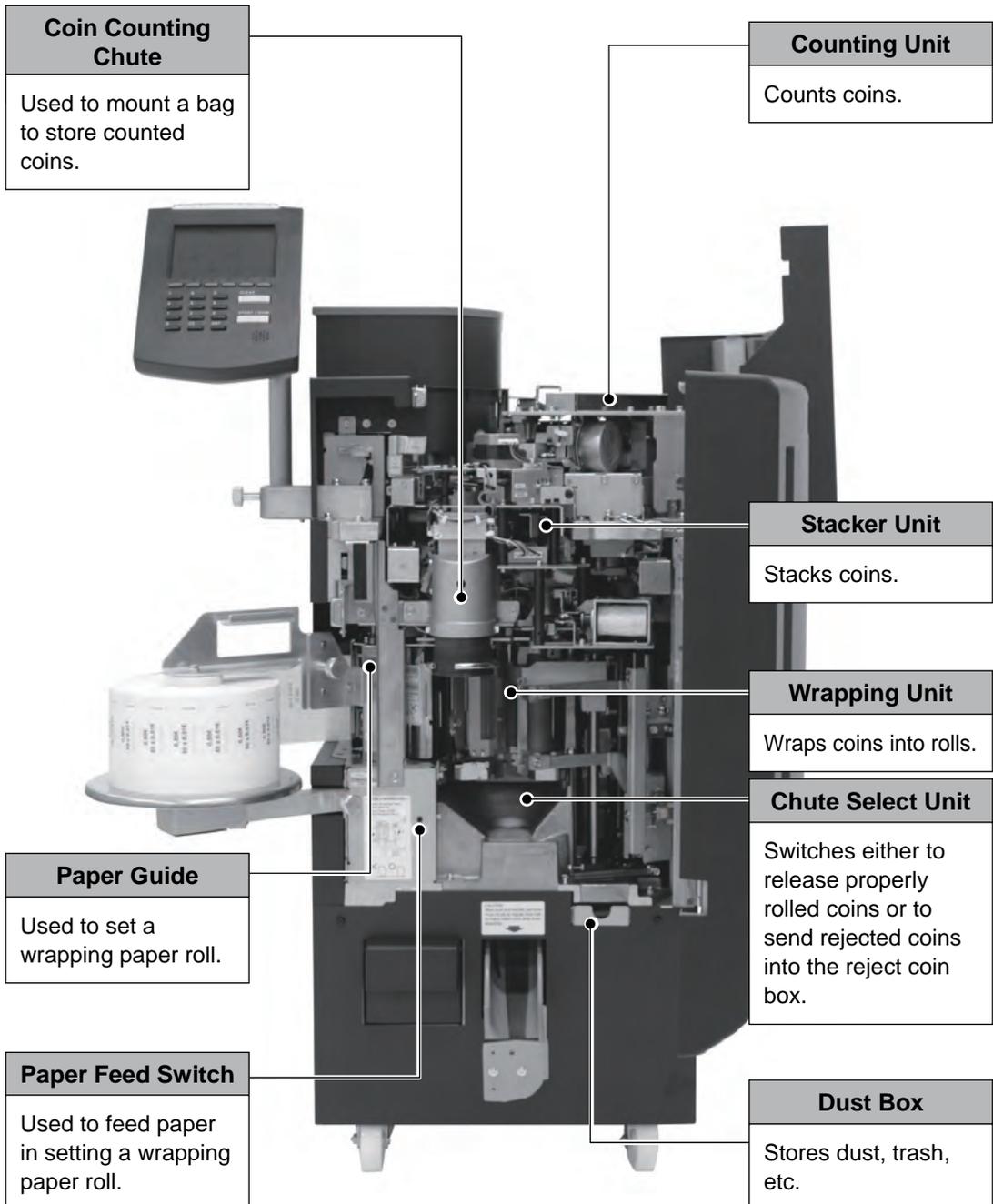


■ Exterior Appearance [Rear]

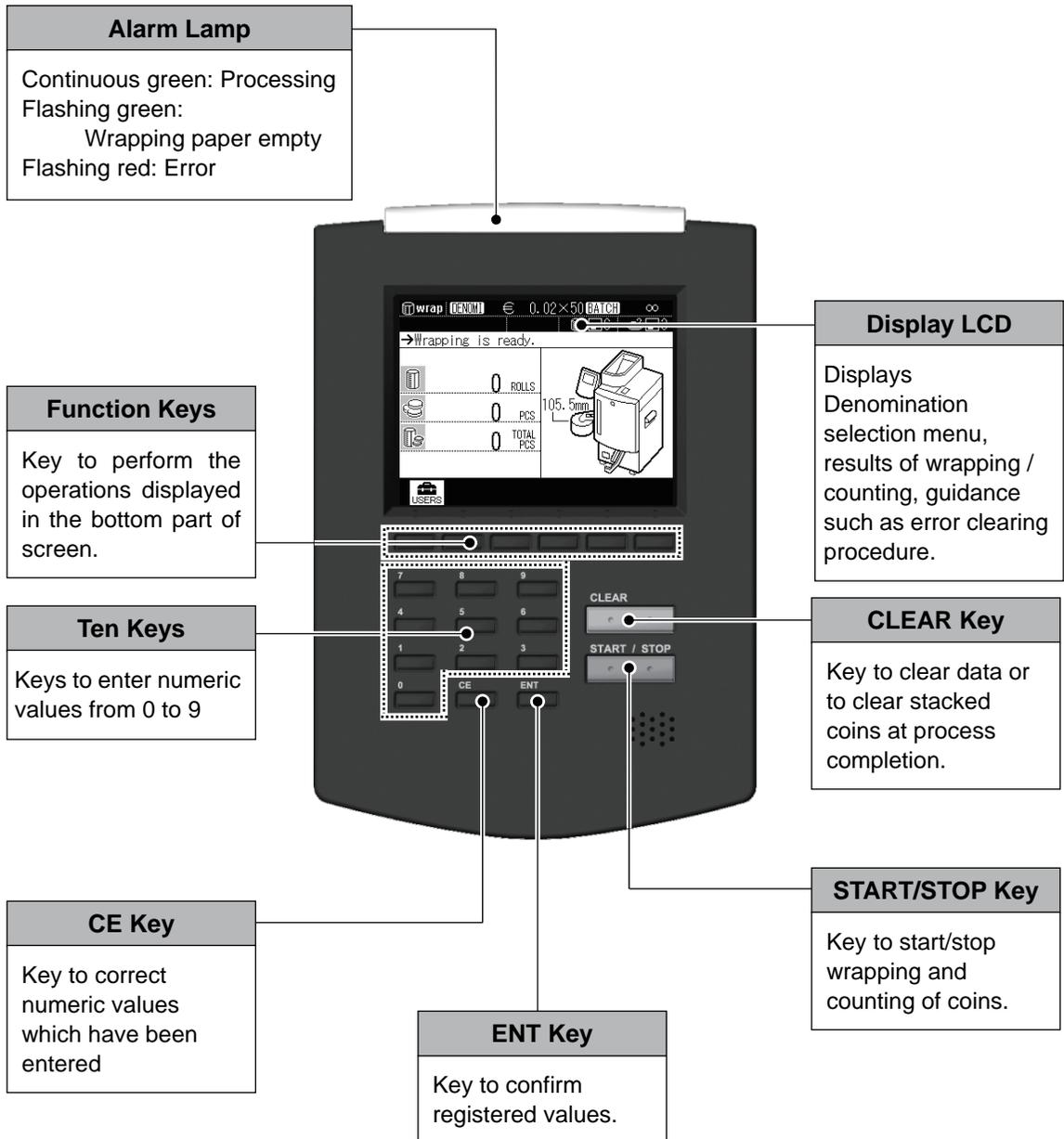


	WARNING	Never insert your finger into the hole for the dust box at the rear when the machine is in operation or you may be injured.
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Interior Appearance

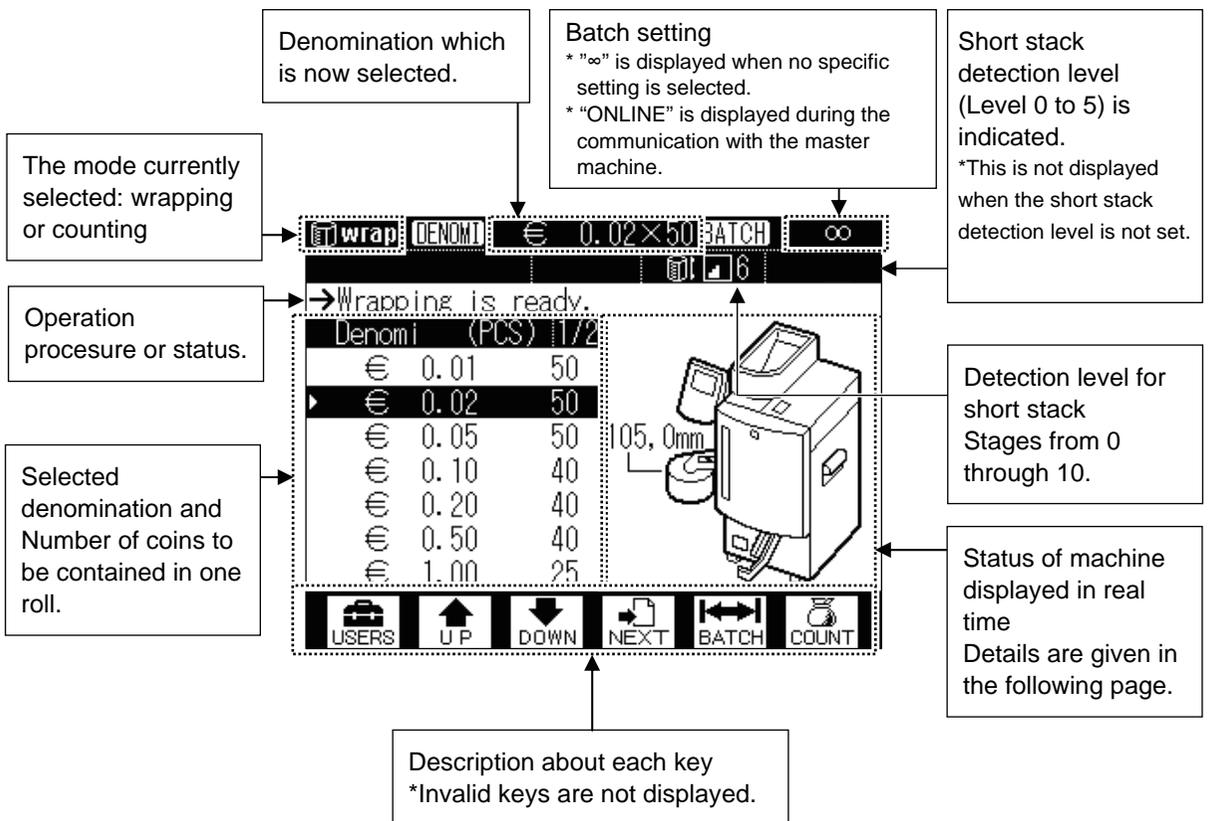


Operation Panel



Denomination Selection Display / Menu Screen

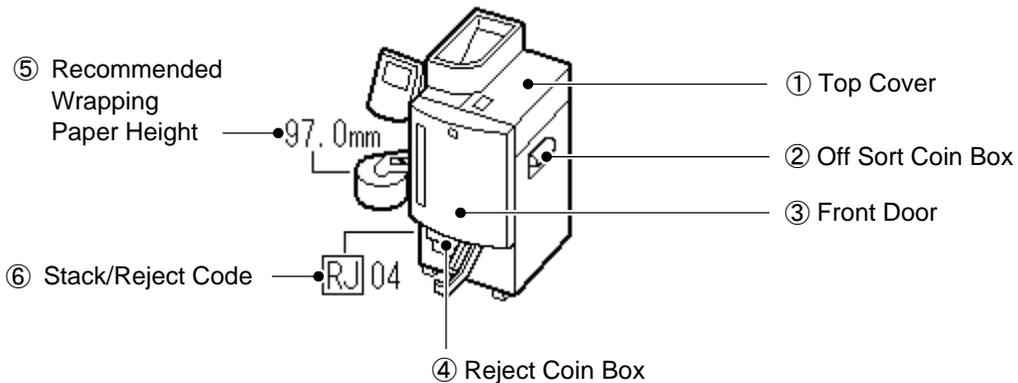
When the machine is turned on, the screen shown below appears on the operation display. Operation starts with this screen.



Prior to Use

Machine Mechanism Display

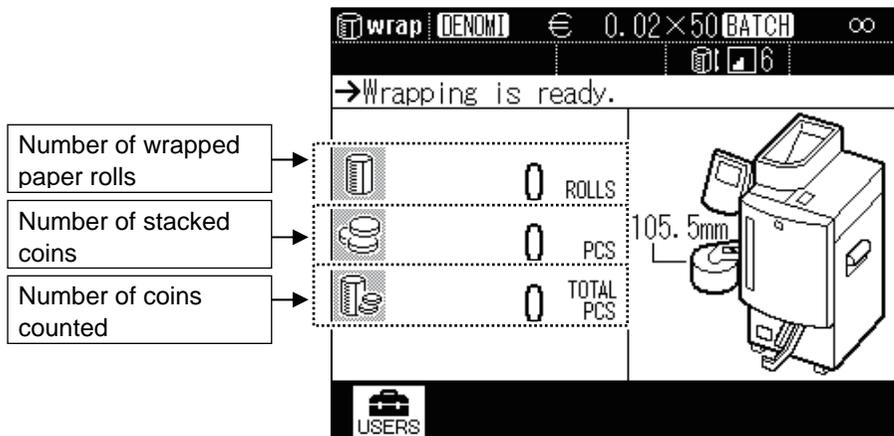
Lamps are lit or blink to indicate the status of each unit.
Check troubled units and displayed messages, and take necessary measures.



No.	Lamp Name	Status	Description	Notes
①	Top Cover	Lights up	Top cover is not properly set.	
		Blinks	Stacker sensor needs to be cleaned.	Only in wrapping mode
②	Off Sort Coin Box	Lights up	Off sort coin box is not set properly.	
		Blinks	Off sort coin box is full.	
		Blinks	There is (are) coin(s) in off sort coin box.	
③	Front Door	Lights up	Front door is not properly set.	
		Blinks	Front door needs to be opened.	Only in counting mode
		Blinks	Coin counting chute is full.	Only in counting mode
		Blinks	Regular paper position sensor need to be cleaned.	Only in wrapping mode
④	Reject Coin Box	Lights up	Reject coin box is not properly set.	Only in wrapping mode
		Blinks	Reject coin box is full.	Only in wrapping mode
		Blinks	There is (are) coin(s) in reject coin box.	
⑤	Wrapping Paper Height [mm]	On display	Recommended height of wrapping paper is always displayed. * In the case that the paper height detection function is not provided.	Only in wrapping mode
⑥	Stack Reject Code	On display	Stack reject code is displayed until the next stack operation is completed. The indication on the display is cleared when the cause is cleared and error is reset.	Only in wrapping mode

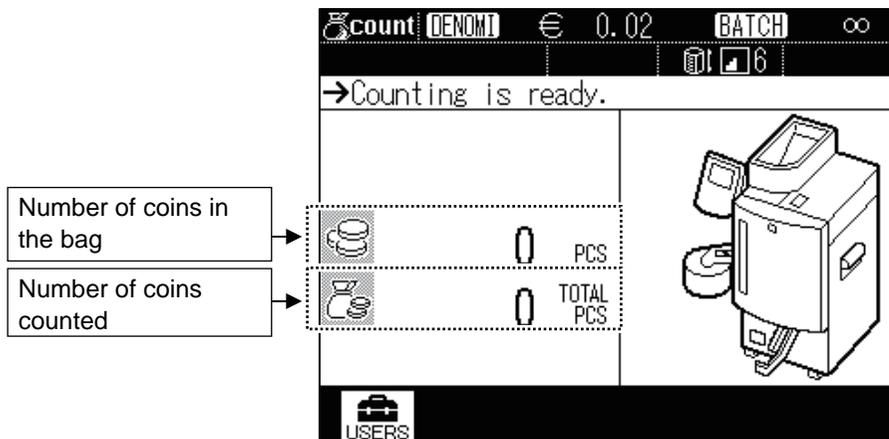
Wrapping Operation Screen

After selecting denomination, press the [START/STOP] key. The wrapping operation starts and the screen shown below appears.



Counting Operation Screen

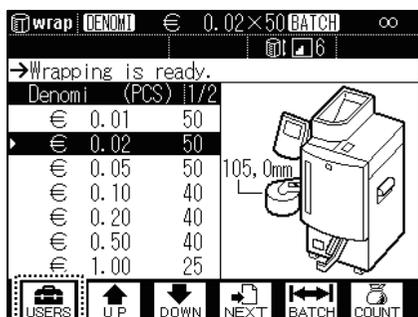
After selecting denomination, press the [START/STOP] key. The counting operation starts and the screen shown below appears.



User Setting Menu

To make the machine more usable, you can change the settings of some items, such as LCD contrast, sound volume, and date. Available contents vary depending on which options you chose.

Denomination Selection Menu Screen



Press the USERS key to display the user setting menu screen.

User Setting Menu Screen



Press the EXIT key to return to the denomination selection menu screen.

Contents of User Setting Menu

For the procedure to set date and time, and to set short stack detection level, see pages referenced in the table below.

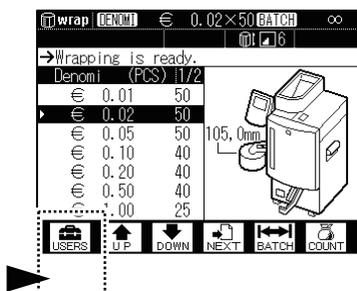
Item	Description	Reference
LCD contrast *Default value: 5	Contrast of LCD display can be changed. 1 ←→ 10 Low High	
Speaker volume *Default value: 5	Speaker volume can be changed. 0: OFF 1 ←→ 8 Small Large	
Time and Date setting	Time and Date setting can be changed.	Page 19
Coin feed height correct *Default value: 0	When coins flow roughly, you can adjust the height of coin guide to improve the flow of coins. -20 ←→ +20 Low High * Once the denomination setting is changed or power is turned off and on, the set value is cleared to the default value.	
Coin passage width correct *Default value: 0	When coins flow roughly, you can adjust the width of coin passage to improve the flow. -20 ←→ +20 Narrow Wide * Once the denomination setting is changed or power is turned off and on, the set value is cleared to the default value.	

Item	Description	Reference
<p>Location for material rejected coins *Default setting: Off sort box</p>	<p>You can select how to deal with coins which have been rejected by the foreign material detection sensor. The user can select to store such coins either in the reject coin box or in the off sort coin box. *This item is displayed only when the foreign material detection (optional) is ON.</p>	
<p>Short stack detection *Default setting: ON</p>	<p>Short stack detection function is either switched ON or OFF. *The setting applies regardless of denomination. When this setting is OFF, short stack will not be detected.</p>	
<p>Continue mode (count mismatch) *Default setting: Clear & re-count</p>	<p>You can select the operation that follows count discrepancy in counting mode. - Continue: Counting is continued without re-counting. - Clear & re-count: Re-counting after clearing the count to zero</p>	
<p>Upper crimping hock height *Default setting varies depending on denomination.</p>	<p>Position of crimping hook can be adjusted to prevent it from damaging the surface of coins. *The setting applies only to a specified denomination. 0 ←————→ 14 Low High Depending on this setting, the machine may not be able to detect short stack.</p>	
<p>Short stack detection level *Default setting varies depending on denomination.</p>	<p>Level of short stack detection can be changed. 0: OFF 1 ←————→ 10 Loose Strict *The setting applies only to a specified denomination. When this setting is OFF, short stack will not be detected.</p>	<p>Page 20</p>
<p>Material detection level *Default setting varies depending on denomination.</p>	<p>Level of material detection can be changed. 0: OFF 1 ←————→ 5 Loose Strict *This item is displayed only when the foreign material detection (optional) is ON. *The setting applies only to a specified denomination. When this setting is OFF, materials will not be detected.</p>	
<p>Date display format *Default setting varies depending on country.</p>	<p>The format of date display (i.e. order of year, month and day) can be changed.</p>	
<p>Comma type *Default setting varies depending on country.</p>	<p>Comma format can be changed.</p>	
<p>Wrapping paper print contents</p>	<p>You can select and set a print out contents on wrapping paper. *This item is displayed only when the printer (optional) is ON.</p>	<p>Page 43</p>
<p>Setting/ignoring offsort box removal *Default setting: ON (Disregard)</p>	<p>- ON: When the off sort coin box is pulled out during wrapping/counting, the machine disregards the fact, and continues the operation. - OFF: When the off sort coin box is pulled out during wrapping/counting, the machine stops its operation.</p>	
<p>Wrapping paper printer setting *Default setting: Rejects n/a printed roll to RJ box.</p>	<p>- Rejects n/a printed roll to RJ box.: After being reset wrapping paper, or after being changed print out contents, or after being changed time and date setting, this machine automatically rejects 1st wrong wrapped roll of coins which is not correctly printed into Reject coin box. - Releases all wrapped coins.: Regardless of print out contents, every wrapped roll of coins passes down into coin roll chute like a WR-400. *This item is displayed only when the printer (optional) is ON.</p>	

Time and Date Setting

Set date and time by following the procedure described below.

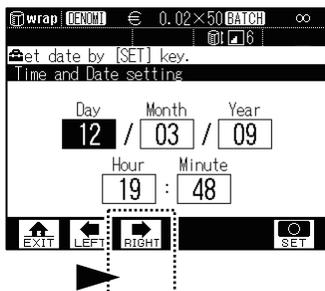
1. Press the USERS key to display the user setting menu.



2. Select "Time and Date setting" by pressing the UP or the DOWN key, and then press the SET key.



3. Enter date by using TEN keys. Press the RIGHT key to move the cursor to the next item.

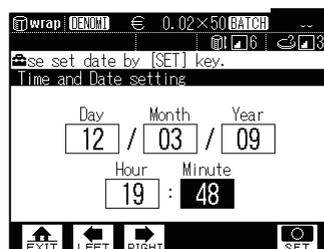


○ Note ○

The order of year, month, day, hour, and minute can be changed by changing the date and time format setting.

4. Enter month, year, hour, and minute in a similar way as in 3.

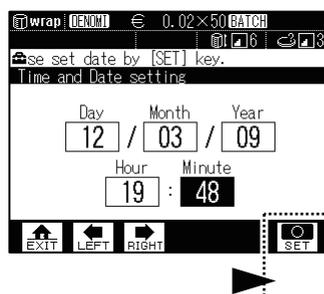
*The number that you can enter as year: 09 to 99.



Press the RIGHT key when there is no need to change entered values.

Press the LEFT key to return to the previous setting item.

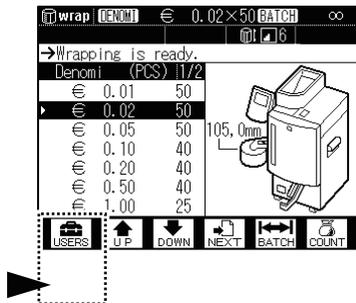
5. Check the entered contents and press the SET key.
The entered date and time are set.



How to Set Short Stack Detection Level

Set the short stack detection level by following the procedure described below.
For more details, contact an authorized distributor or your nearest sales representative.

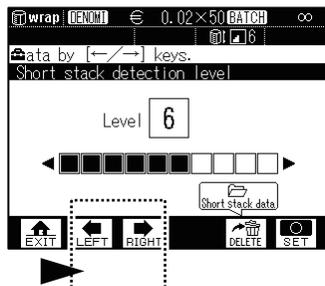
1. Press the USERS key to display the user setting menu.



2. Select "Short stack detection level" by pressing the UP key or the DOWN key, and then press the SET key.



3. Select the detection level by pressing the LEFT key or the RIGHT key.

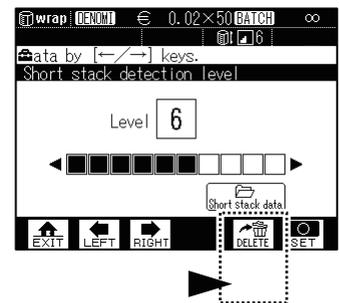


When the level is zero, the detection function is OFF.

4. Check the entered data, and press the SET key.

When not making any change, press the EXIT key.

5. When it is necessary to clear the learned data, press the DELETE key.



6. The screen to confirm your selection appears. Press the ○ (YES) key to clear the data.



Not to clear the data, press the x (NO) key to return to the previous screen.

Important note

In clearing data, the data learned about the latest 50 properly wrapped rolls of the specified denomination coins are deleted. It tries to learn newly.

How to Set Wrapping Paper

1. Open the front door.



2. By lifting the paper lever, set a wrapping paper roll, which is appropriated for the selected denomination and the set number of rolls to be made, in the center of the paper stand. Then place the paper lever on the wrapping paper roll.



Note

- A recommended height of wrapping paper roll meeting the specified denomination is displayed on the LCD.
- Do not use deformed wrapping paper rolls.
- Use a wrapping paper roll meeting the recommended wrapping paper height.

3. Open the paper feed guide and Insert the leading end of wrapping paper roll to the paper feeding rollers.



4. Press the paper feed switch.
paper feed switch



5. Open the paper feed guide, and pull out the leading end of wrapping paper as shown in the picture below.



-
6. Ensure that the bottom edge of wrapping paper is along with the surface of paper feed base.

*When the bottom edges of the paper is not along with the surface, open the paper guide and correct the position of the paper.

-
7. Pull out the wrapping paper a little bit, while pressing the paper feed guide. Cut the extra part of the paper.



-
8. Proceed to the next process of wrapping by referring to “Coin Wrapping Procedure” on page 23.

*The empty paper detection function detects if the wrapping paper is out. However, depending on the condition of the inner end of wrapping paper adhered to the paper roll core, it may not be able to detect that the paper is run out.

Coin Wrapping Procedure

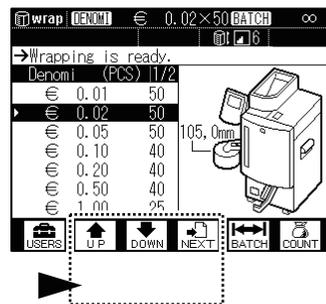
Wrap coins by following the procedure described below.

1. Switch on the machine.
After the initial operation, denomination selection menu screen appears on the display.
2. Throw coins into the hopper.
3. Select the wrapping mode.
Check the mode display. If the display is "WRAP", leave as it is. If the display is "COUNT", press the WRAP key to switch to the wrapping mode.

Refer to page 29 for the procedure to switch mode from counting to wrapping.
4. Ensure that a wrapping roll is set. And also ensure that enough amount of paper is remaining.

For setting wrapping paper rolls, refer to the procedure described in page 21.

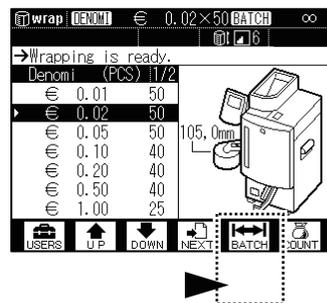
5. Select denomination of coins to be wrapped, by using the UP key and the DOWN key.



Note

Press the NEXT key to move to the next page, when there is more than one page.

- * When setting the number of rolls for batch, press the BATCH key and specify the number of rolls.



You can change the number of rolls for batch in the following way.

Enter the number of rolls for batch by using the TEN keys, and press the SET key.



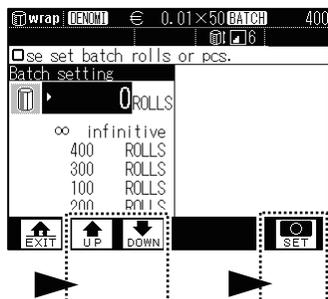
Note

Numeric values from 0 through 99999 can be entered. When 0 (zero) is entered, all coins thrown into the machine are to be wrapped. In this case, ∞ is displayed on the screen.

The machine saves the latest set values up to 4 patterns for each mode and for each denomination.

Selection of previous batch setting

Select a setting from the batch list, by using the UP key and the DOWN key, and press the SET key. The batch list shows the latest four batch setting patterns.



Note

When ∞ is selected, all coins supplied to the machine are to be wrapped.

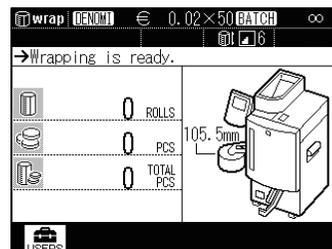
In the batch list, the latest pattern is listed first.

If a new batch pattern is set when there are already four patterns of batch settings are recorded, the oldest pattern is deleted first.

6. Press the START/STOP key.



Wrapping starts and the screen for wrapping in process is displayed.



Note

When coins get jammed during coin stacking operation, the jammed coins are stored into the reject coin box, and the quantity of coins/rolls are subtracted from the number of wrapped coins and the number of rolls displayed on the screen. Supply the coins in the reject coin box into the machine again.

When throwing coins into the hopper before pressing the START/STOP key, poor movement of Money setting may occur.

Note

Press the START/STOP key when stopping the counting in wrapping operation.

Cont. to the next page

7. When wrapping is completed, a buzzer sounds and stops automatically.

Note

Check the screen displaying the current status. If a message is displayed, read the message and follow the instruction.

“Remove the coins in the off sort coin box.”

Draw the off sort coin box, and sort out only specified type of normal coins, and then throw them into the hopper.

“Remove the coins in the reject coin box.”

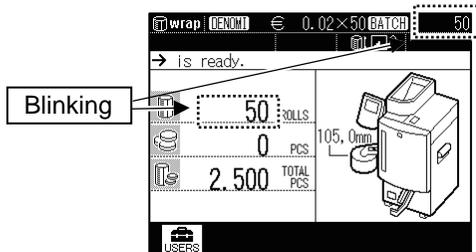
Draw the reject coin box. Take out the coins in the box and throw them into the hopper.

“Replace the wrapping paper.”

For setting wrapping paper rolls, refer to the procedure described in page 21.

In the case that the number of rolls for batch has been set, the wrapping operation stops automatically once the number of rolls reaches the set number.

The display of the number of rolls for batch and of the number of rolls blinks on the screen.



When the START/STOP key is pressed, the machine restarts wrapping. (The counted values displayed on the screen are not cleared.)

8. Press the CLEAR key.



Coins remaining in the stacker are moved into the reject coin box, and the denomination selection menu is display.

Remove coins in the off sort coin box and the reject coin box.

Coin Counting Procedure

Count coins by following the procedure described below.

1. Throw coins into the hopper.

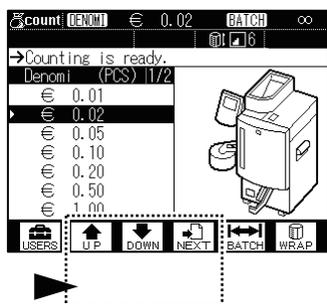
2. Select the counting mode.

Check the mode display. If the display is "COUNT", leave as it is. If the display is "WRAP", press the COUNT key to switch to the counting mode.

For changing from the wrapping mode to the counting mode, refer to the procedure given in page 30.

3. Set a coin counting bag to the coin counting chute.

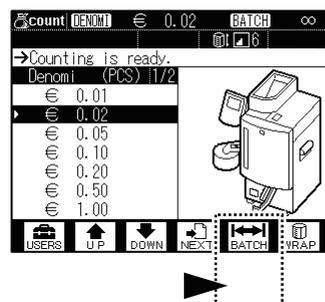
4. Select the denomination of coins for counting, by pressing the UP key or the DOWN key.



Note

Press the NEXT key to move to the next page, when there is more than one page.

5. Press the BATCH key to set the number of coins for batch.



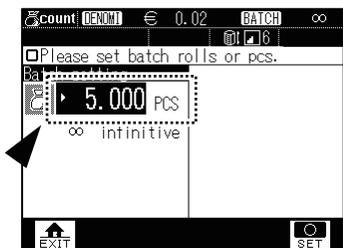
Cont. to the next page 

Operation

6. Specify the number of coins for batch.

You can change the number of coins for batch in the following way.

Enter the number of coins for batch by using the TEN keys, and press the SET key.



Note

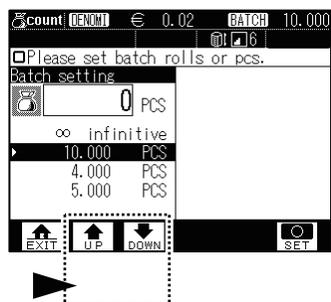
Numeric values from 0 through 99999 can be entered.

When 0 (zero) is entered, all coins supplied to the machine are to be counted. In this case, ∞ is displayed on the screen.

The machine saves the latest set values up to four patterns for each mode and for each denomination.

Selection of previous batch setting

Select a setting pattern among the four previously-used patterns from the batch list by pressing the UP key or the DOWN key. And, press the SET key.



Note

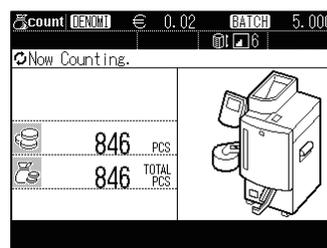
When ∞ is selected, all coins supplied to the machine are to be counted.

In the batch list, the latest pattern is listed first. If a new batch pattern is set when there are already four patterns are recorded, the oldest pattern is deleted first.

7. Press the START/STOP key.



Counting starts and the screen for counting in process is displayed.



Note

When throwing coins into the hopper before pressing the START/STOP key, poor movement of Money setting may occur.

Note

When stopping the counting operation, press the START/STOP key.

8. When counting is completed, a buzzer sounds.

Note

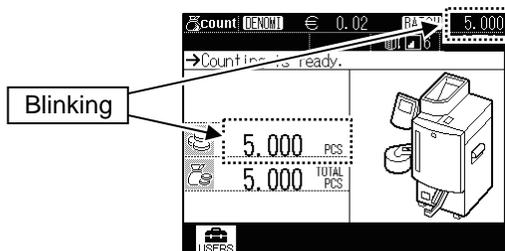
Check the screen displaying the current status. If a message is displayed, read the message and follow the instruction.

“Remove the coins in the off sort coin box.”

Draw the off sort coin box, and sort out only specified type of normal coins, and then throw them into the hopper. Foreign objects should be removed.

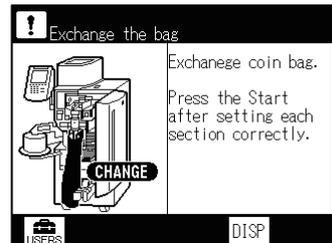
In the case that the number of coins for batch has been set, the counting operation stops automatically once the number of coins reaches the set number.

The display of the number of coins for batch and of the number of coins in the bag blinks.



9. Remove the bag attached to the coin counting chute.

10. Press the START/STOP key to display the next screen.



To continue the counting operation, press the START/STOP key.

Press the CLEAR key to complete the operation.



The denomination selection menu screen appears on the display.

Remove coins in the off sort coin box.

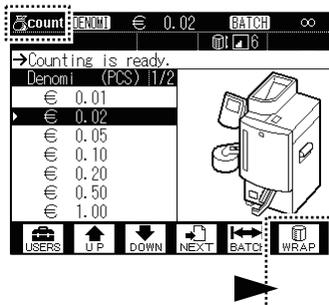
How to Change Mode from Counting to Wrapping

Change the operation mode to wrapping by following the procedure described below.

1. Remove the coin counting bag attached to the coin counting chute (if a bag is attached).

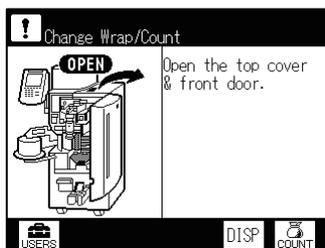
2. When the screen for counting operation is displayed, press the CLEAR key.

3. Press the WRAP key.

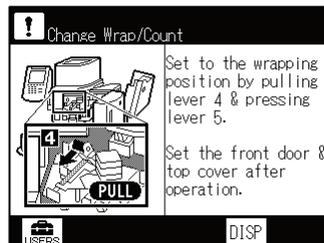


4. Open the top cover.

Open the front door as well (if it is closed).

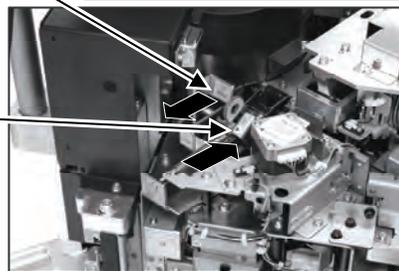


5. Pull the lever ④, and then push the lever ⑤ to set to the wrapping position.



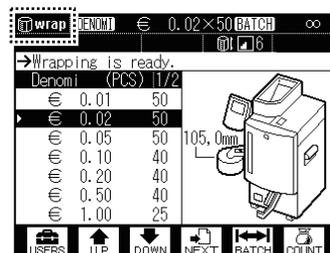
lever ④

lever ⑤



6. Close the top cover and the front door.

When the mode has been changed to the wrapping mode, the next screen appears on the display.



7. Set the wrapping paper.

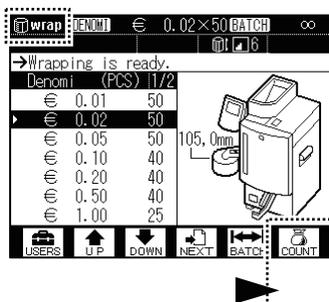
For setting wrapping paper, refer to the procedure given in page 21.

How to Change Mode from Wrapping to Counting

Change the operation mode to counting by following the procedure described below.

1. When the screen for wrapping operation is displayed, press the CLEAR key.

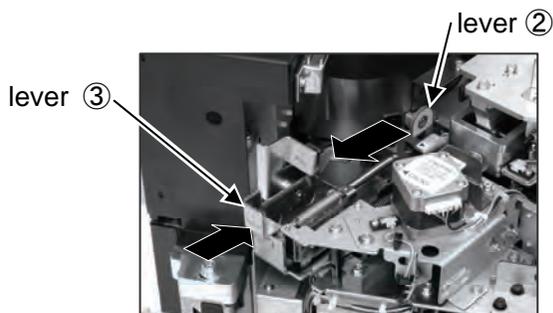
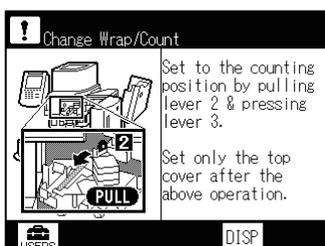
2. Press the COUNT key.



3. Open the top cover and the front door.

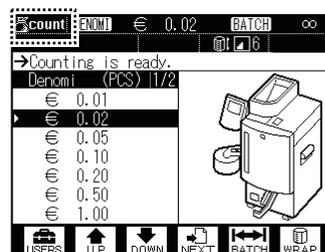


4. Pull the lever ② and then push the lever ③ to set to the counting position.



5. Set the top cover.

When the mode has changed to the counting mode, the next screen appears on the display.



6. Set the coin counting bag to the coin counting chute.



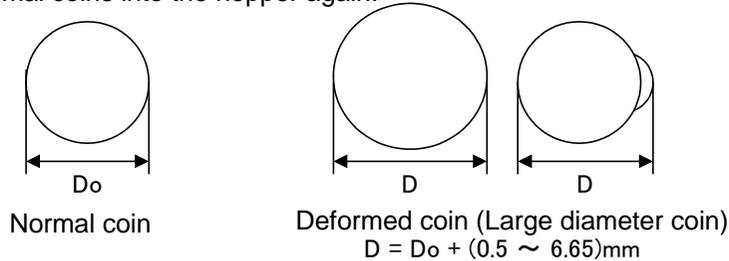
Other Measures

Function to Remove Large Diameter Coin

When large diameter coins, deformed or damaged coins, and foreign materials are mixed with the coins supplied for wrapping or counting, WR-90 detects such coins and materials automatically. After storing those coins and materials into the off sort coin box, the machine automatically restarts the wrapping/counting operation.

*When there is not much space remained on the rotary disc, the machine may not be able to detect such coins and materials.

- Deformed coins as shown below are stored into the off sort coin box. In the process, some normal coins may be sorted out together with deformed coins, and are stored into the off sort coin box. Among the coins in the off sort coin box, remove deformed coins and supply normal coins into the hopper again.



*When no coin is counted up even after repeating this function to remove large diameter coins a few times, "Feed failure" is to be indicated on the display.

Operation after Stacker Jam

When a Jam has occurred during stacking coins, e.g. jammed coins, those coins involved in the problem are stored into the reject coin box automatically. In such a case, the number of the rejected coins is subtracted from the displayed number of coins. Then, the operation restarts.

Coins are checked with two counting sensors. When it is detected that coins are not counted normally, concerned coins are stored into the reject coin box.

Other Functions

Short Stack Detection Function

This function is to detect short stack. When it is determined from the height of stacked coins that the number of stacked coins is abnormal, such coins are stored into the reject coin box.

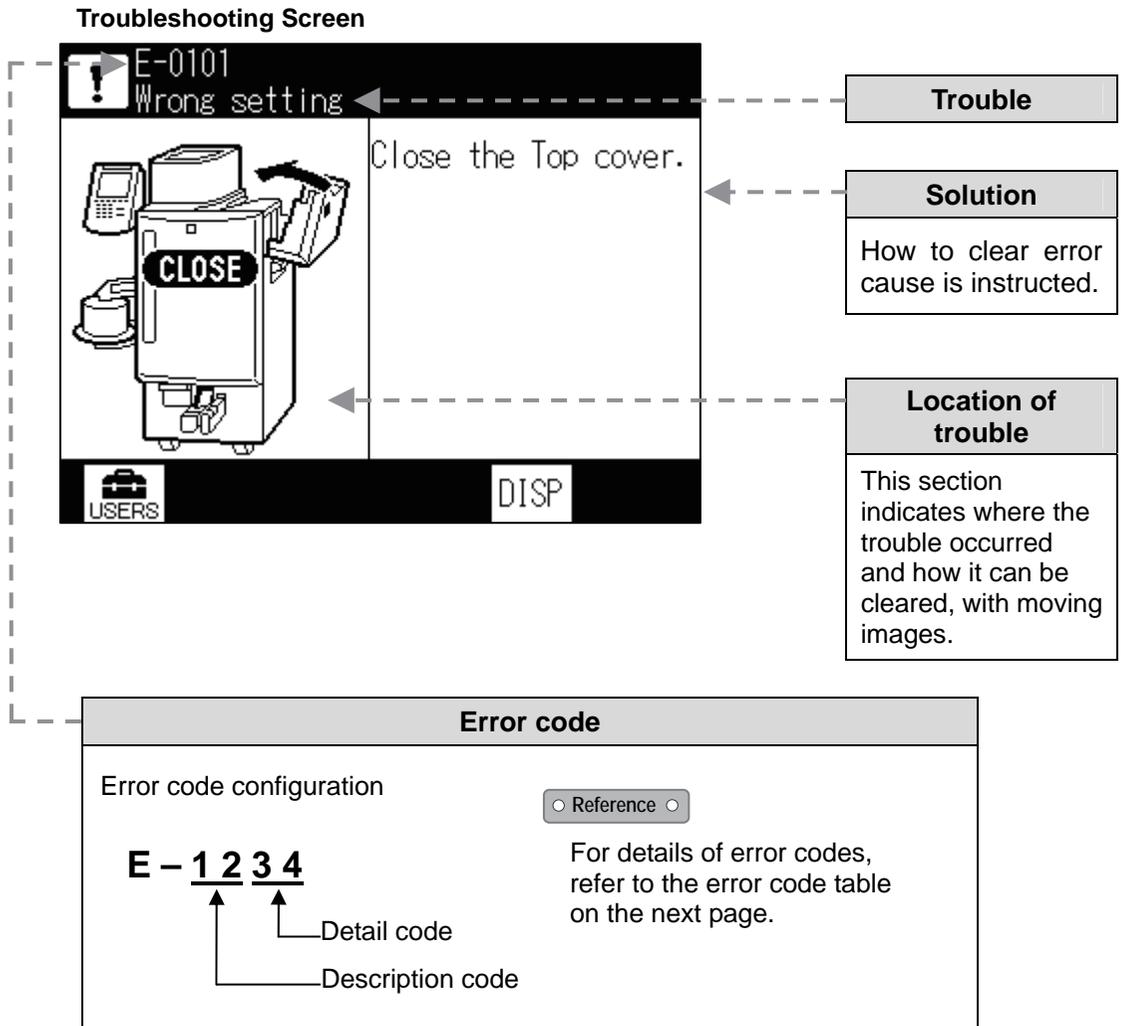
When the error is detected three times consecutively, the error code "E3902" is displayed.

For changing the detection level, refer to the procedure described in page 20.

Troubleshooting

Troubleshooting

When a trouble has occurred, the troubleshooting screen, as shown below, appears on the display. Follow the instructions displayed on the screen to clear errors.



Error Code Table

Error codes indicate what the problems are.
Check the below table and follow the instructions to remove causes of errors.

Error code		Error name	Cause	Solution
Description code	Detail code			
01	01	Wrong setting	The top cover is open.	Close the top cover.
	02		The front door is open.	Close the front door.
	05		The wrapping paper is not properly set.	Reset the wrapping paper.
	06, 07		The wrap/count changing lever is not properly set.	Correct the position of wrap/count changing lever.
02	01	Wrong setting	The top cover is opened during wrapping/counting.	Close the top cover.
	02		The front door is opened during wrapping.	Reset the wrapping paper, and close the front door.
19	01 ~ 03	Coin passage jam [Remain]	There is/are remaining coin(s).	Check locations indicated on the screen, and remove coins and foreign objects.
20	01 ~ 03	Coin passage jam	Coin(s) is/are stack.	
24	01, 02	Coin passage jam [unmatch]	A transportation error occurred.	Clean sensors and passage.
	06 ~ 09	Coin passage jam [unmatch]	There is discrepancy in counts by sensors.	

Cont. to the next page 

Troubleshooting

Error code		Error name	Cause	Solution
Description code	Detail code			
25	01 ~ 04	Jam [Rotation error]	There is a coin / foreign object stuck.	Check the locations indicated on the display, and remove stuck coins or foreign objects.
27	01 ~ 05	Jam [Time over] Count Unit		
27	20 ~ 32	Jam [Time over] Stacker		
28	01 ~ 08	Jam [Time over] Wrapping assembly		
33	01 ~ 14	Jam [Wrapping]		
37	01, 02	Power failure in operation	There was a power failure during operation.	After power recovery, follow the instructions on the display.
39 ~ 97	01 ~ 46	—	—	Contact an authorized distributor or your nearest sales representative, when the machine cannot recover from errors even after necessary measures have been taken by following the instructions on the display.

Note

In case of an error other than the errors listed above, please contact an authorized distributor or your nearest sales representative.

Error Message and Solution

When following messages appear on the display, follow the instructions described below or in referenced pages.

Message	Solution
Wrong setting	 Reset the part indicated in the display.
Offsort box full	 Take coins out from the off sort coin box, and recount or collect the coins.
Reject box full Re-count Coins in RJ box	 Take coins out from the reject coin box, and recount or collect the coins.
Wrapping paper is empty	 Set a new wrapping paper roll.
Feeding error	 Open the top cover and remove deformed coins / foreign objects from the rotary disc.
Bag full Exchange the bag	 The count has reached the set number of coins for batch or the bag full. Remove the bag and complete the operation, or set a new bag and continue counting.
Re-count the bag	 Remove the bag, and supply the coins in the bag to the machine for recounting.
Sensor cleaning	 Clean sensors and passage.
Set Door for count mode	 Open the front door and continue counting.

Daily Maintenance

Cleaning of Parts and Sensors

Dust and dirt on sensors may cause malfunction or error.

Clean the following locations at least once a day, with the brush equipped as accessories, by following the instructions below.

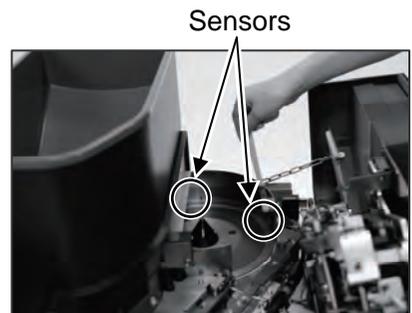
 WARNING	Be sure to turn off the power before accessing the inside of the product for cleaning. Otherwise, electric shock or injury may result.
	Do not use a spray containing combustible gas near the product. Otherwise, the gas can be ignited by electric parts, resulting in fire or explosion.
 CAUTION	Do not use soapless soap, benzene, thinner, compounded wax, and similar materials, for cleaning the product. Use of such materials may cause change in color (or tarnish), damage, or operation failure of the machine.

■ Cleaning of passage and sensors

1. Power off the machine.
Open the top cover, and remove dust, trash from the coin passage with the brush.

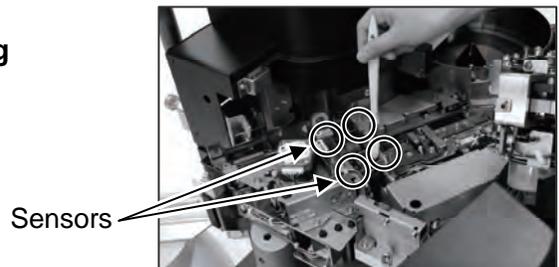


2. Clean the sensors in the rotary disc part with the brush.

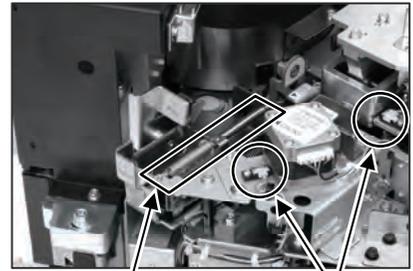


■ Cleaning of sensors in stacker, wrapping unit, and other locations

3. Clean the sensors mounted in the stacker with the brush.

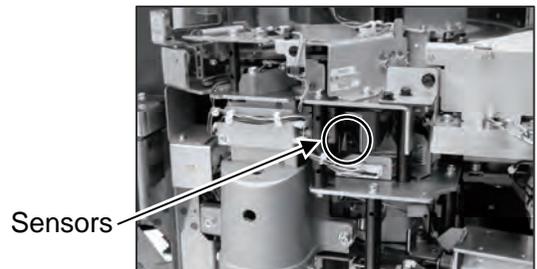
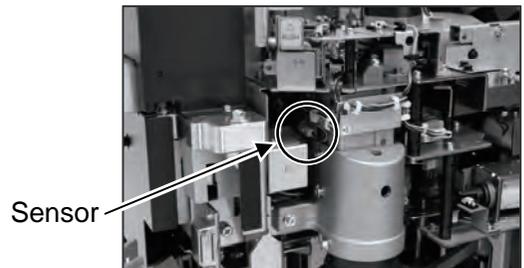


4. Open the front door, and remove dust and trash from the sensors and sliding shaft in the wrap/count changing assembly with the brush.

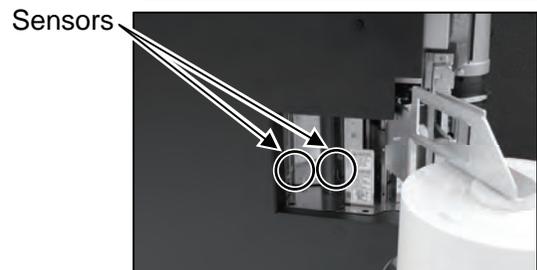
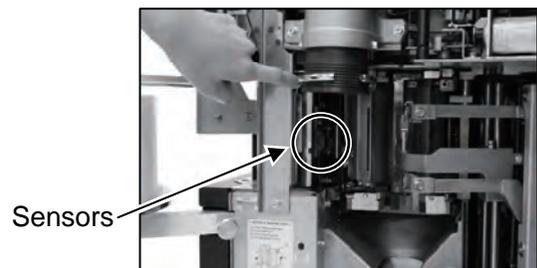


Sliding shaft Sensors

5. Clean the sensors mounted in the stacker and coin counting chute with the brush.



6. Clean the sensors mounted in the wrapping unit with the cotton swab.



Cont. to the next page ►►►

Daily Maintenance

■ Cleaning of chute

7. Remove dust and trash from the chute with the brush or cloth.



Accessories

Standard Parts

- **Accessories to be built into the machine parts at the installation**

- ① Operation and display panel assembly: 1 set
- ② Paper lever assembly: 1 set
- ③ Paper roll stand assembly: 1 set

- **Accessories to be maintained by users**

- ① Instructions manual: 1 piece
- ② Flat brush: 1 piece
- ③ Cotton swab: 5 pieces

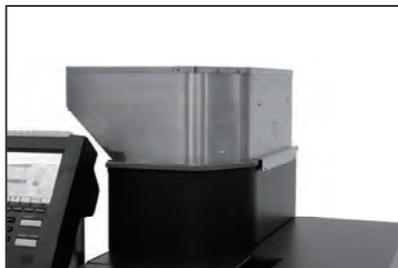
- **Other**

Coin roll tray: 1 set

Optional Parts

- **Large hopper**

By mounting the large hopper, you can throw a larger amount of coins at a time.



Cont. to the next page



- **Large paper roll stand**

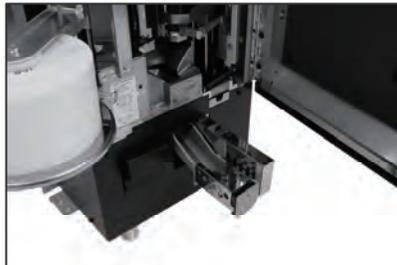
The large paper roll stand allows you to set a wrapping paper roll with a diameter up to 300mm.



- **Coin roll holder**

By mounting the coin roll holder to the coin roll chute, you can have coin rolls aligned and dropped onto a belt conveyer.

Please contact your sales representative for more details.



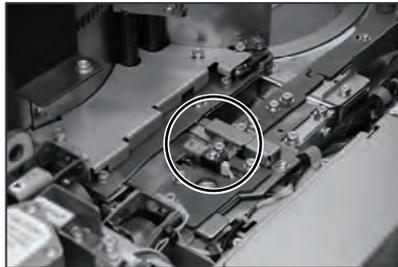
- **External interface**

The external interface allows you to start and stop the machine through external communication.



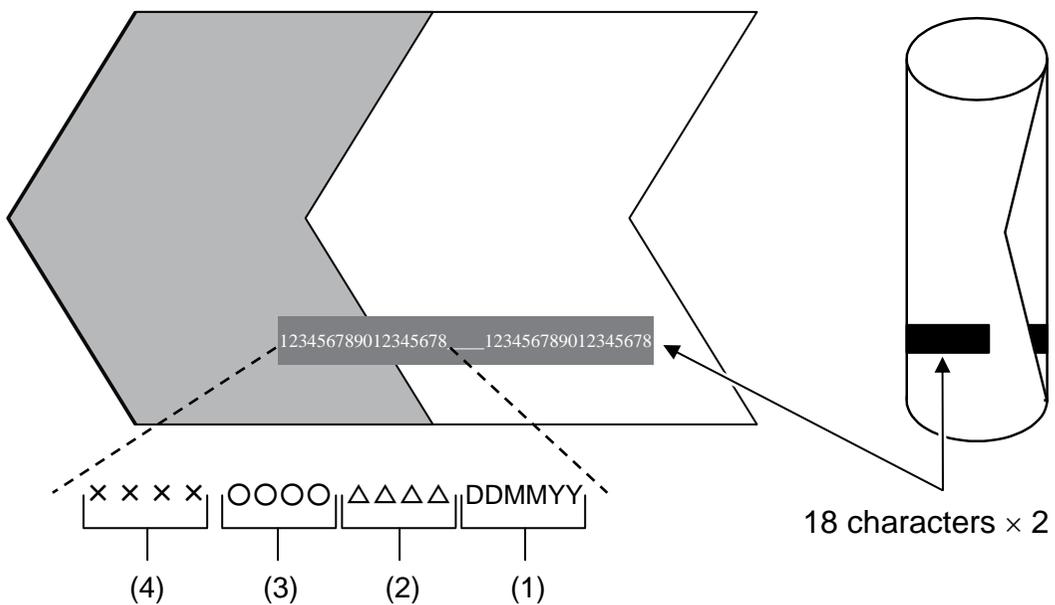
● **Material Detection Sensor**

By using this sensor, you can detect and clear other material coin.



● **Printer**

By mounting the printer, you can print information on the wrapped coins. For details, consult with our nearby representative.



(1) Date: User can set the date format, i.e. the order of year, month and day.

*DD: Day, MM: Month, YY: Year

(2) Machine No. *4 characters ASCII code

(3) Operator ID No. *4 characters ASCII code

(4) Bank No. *4 characters ASCII code

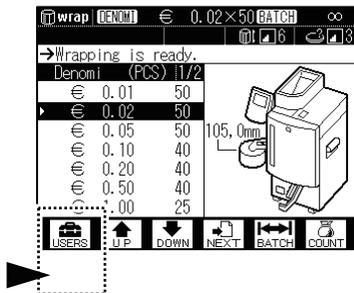
(1) - (4) can be changed by using “Wrapping paper printer” on the “USERS MENU” screen and (2) – (4) are required for being changed with a password. For details, consult with our nearby representative.

Cont. to the next page ►►►

Wrapping paper print contents

Set print out contents by following the procedure described below.

1. Press the USERS key to display the user setting menu.



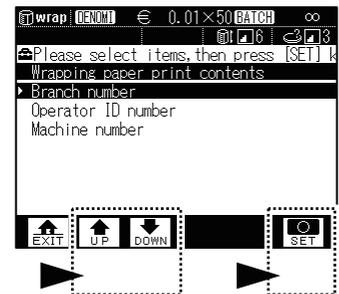
2. Select "Wrapping paper print contents" by pressing the UP or the DOWN key, and then press the SET key.



3. Enter password by using TEN keys, and then press the SET key.



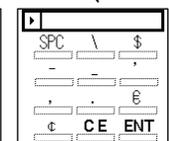
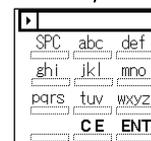
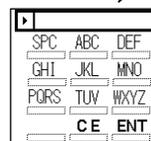
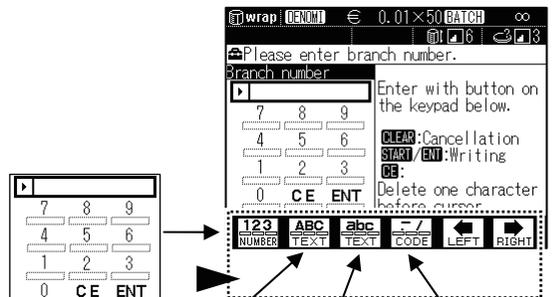
4. Select item you need to change by pressing the UP or the DOWN key, and then press the SET key.



* Printout contents when the above settings are not done.

Branch number : "0000"
 Operator ID number : "0000"
 Machine number : " A"

5. Enter print out contents by using TEN keys or FUNCTION keys, and then press ENT key or START/STOP key.



Specifications

Machine Specifications

- Acceptable coin 32 denominations
Diameter :15-33mm
Thickness:1.0-3.5mm
Stacked coin height:33-106mm
- Wrapping speed..... 25 rolls/min.(max.)(€1.00x25PCS)
(USA25¢x20PCS)
- Counting speed..... 2,000 coins/min.(max.) (€0.10)
(USA5¢)
- Counting operation for the .. 1-99,999 coins
number of setting paper rolls (the number of rolls can be set optionally)
(Batch operation)
- Dimensions(WxDxH)..... 450 mm x 633 mm x 1,035 mm
- Weight..... Approx.148 kg
- Power source 100-120V/220-240V±10%,50/60Hz
- Power current..... 100-120V : 4.2A
220-240V : 1.9A
- Installation environment..... Temperature:5-35°C
Humidity:20-90%
- Wrapping paper roll size Diameter:220 mm for standard
Diameter:300 mm for option
- Hopper capacity 9,000 coins(€0.01) for standard
4,000 coins(USA25¢) for standard
31,000 coins(€0.01) for option
14,000 coins(USA25¢) for option
- Durability 5million rolls

Disposal of the Product

The following information is for EU-member states only:

Disposal of products

(based on EU-Directive 2002/96/EC,

Directive on Waste electrical and electronic equipment – WEEE)



The use of the symbol indicates that this product may not be disposed as unsorted municipal waste and has to be collected separately. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centers.

The black bar indicates that the product was placed on the market after August 13, 2005.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environmental and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about the take-back and recycling of this product, please contact your supplier where you purchased this product.

WR-90

Instruction Manual

Date of Initial Publication : July 15, 2009

Number of Editions : Second Edition

Published by : **GLORY LTD.**

● After-sales service

- * The service network of GLORY LTD. which is distributed to all over the countries provides the parts for various portions, and is expending all possible means to the service.
- * Regarding the inquiries about maintenance/operation of this product, please contact our distributors near you or our designated dealers.

For inquiry, please inform us of "Type" and "Equipment identification number" described in the indication label.

The indication label is attached on the back of the product.

