

# LH-300M INFINITY

Milled rice

## Operational Manual

For safety, please be sure to read operational manual and use it correctly.  
This is to protect users' safety and prevent property damage.



**이화산업사**  
LEEHW A INDUSTRY CO.  
[www.lee-hwa.co.kr](http://www.lee-hwa.co.kr)



# We will become an impressive company for the customers with good products and good services.

The appearance may look the same, but the heart can't be the same. The effort that manufacturing farmer's machines for farmers, and "LeeHwa" can not even imitate the value of the drops of sweat in its name. As the first rice milling machine industry to acquire the Q mark for quality assurance from the Korea Petrochemical Institute, in 2001, it obtained the international standard ISO9002 certification, and patented utility model rights and registration of design rights. The most important things that we are providing the best After-sales Service and customer management through the LeeHwa rice mill dealers all over the country.

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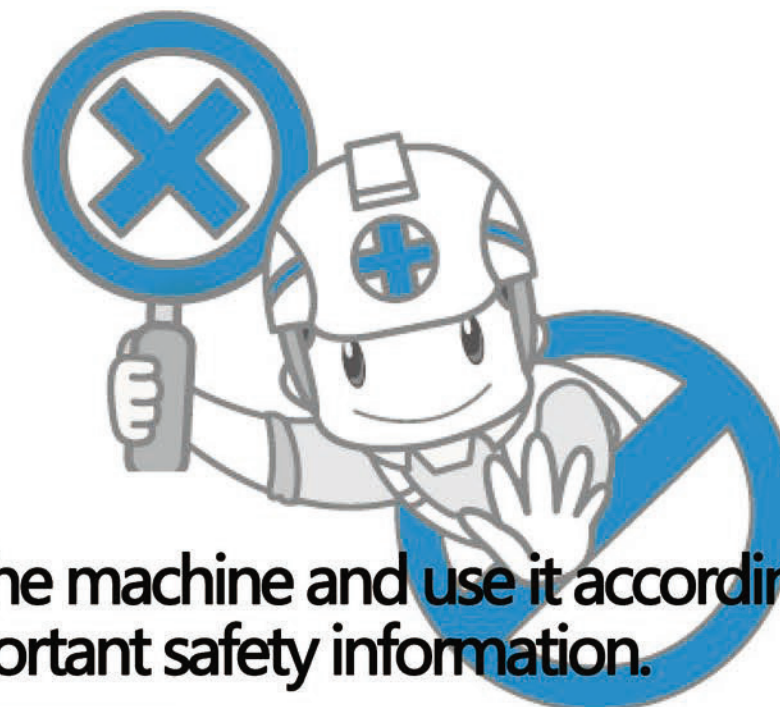
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# 1. Precautions for safety

 Please pay attention when using it~



## Power

Precautions for 220V electrical installation.

- Thank you for purchasing our product
- Please read " Precautions for safety " carefully before operating the machine and use it accordingly.
- Be sure to follow the precautions given here as they contain important safety information.

 <b>Danger</b>	 <b>Warning</b>	 <b>Caution</b>
Indicates that there is a high possibility of death or serious injury if instructions are not followed.	Indicates that there is a possibility of death or serious injury if instructions are not followed.	Indicates that may cause disability or property damage if instructions are not followed.

Caution Marks			
			

## Installation (Set up)

- This machine is for 220V, and please use 50A earth leakage breaker when connecting electrical wire.
- Do not remodel or disassemble the machine randomly, and do not put to other uses.
- Install the single switch out of reach of children. This may cause electric shock or injury.
- Do not insert any impurities into the hopper during operation. This may cause injury or malfunction.
- When installing electricity, please refer to the specification table of each model to select appropriate thickness of the electric wire. (Refer to the table)
- Do not pull out or bend the electric wire, and turn off the earth leakage breaker when not using.
- Do not scratch, damage or bend the power cord by force. This may cause electric shock or fire.
- Do not install the machine where is humid or has direct contact with water. This may cause electric shock or malfunction.
- Do not put any heavy objects on the hopper. This may cause damage or malfunction of the machine.
- Do not move or open the rear door of the machine during the use. This may cause severe injury.
- The weight of the machine may cause injury while moving. Please carry with 4 or more adults.
- Do not wear loose clothes when operating the machine. Please wear simple clothes to prevent any safety accidents.

Prepare

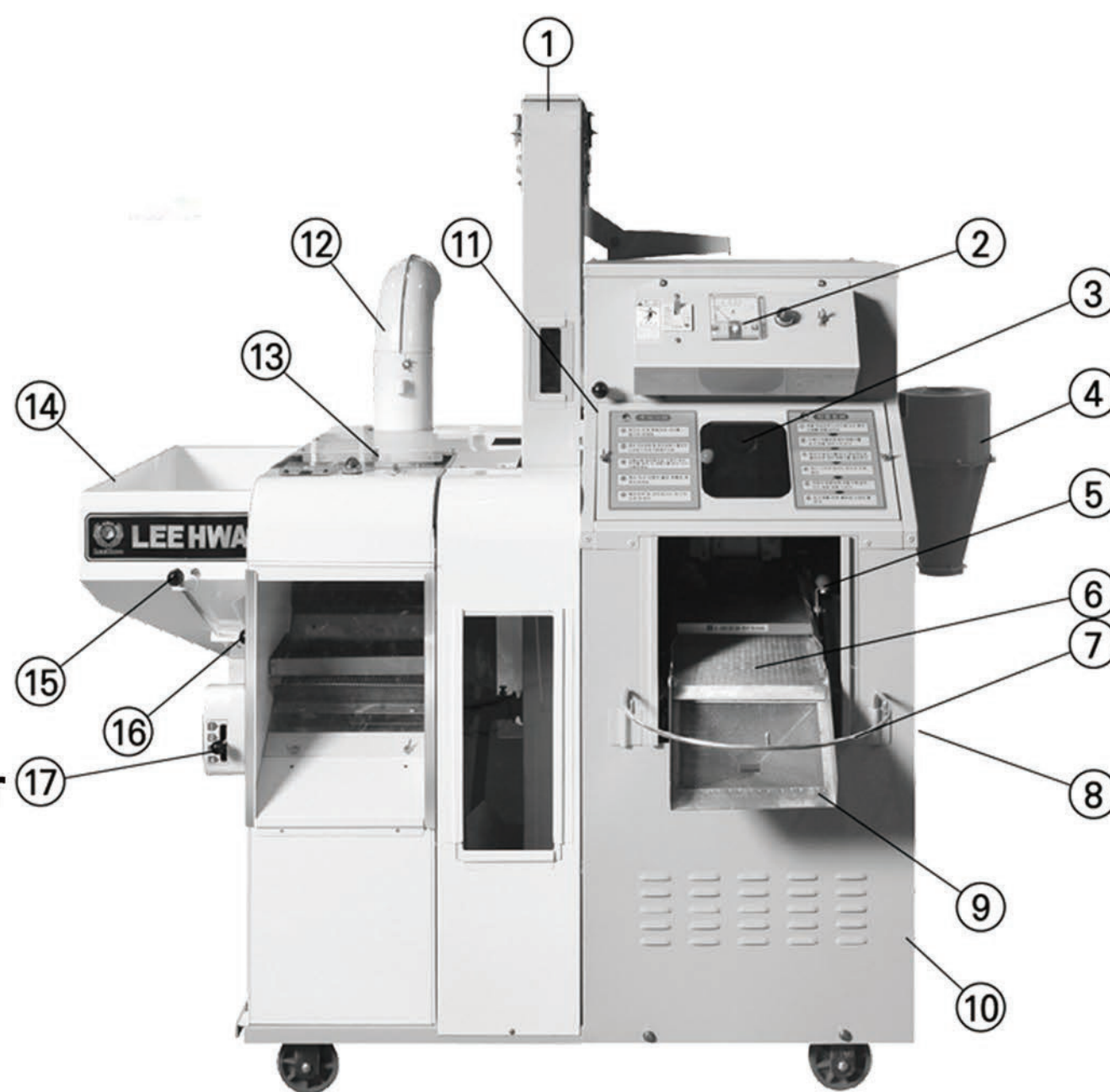


## 2. Preparations

 Please remember the name of each part.

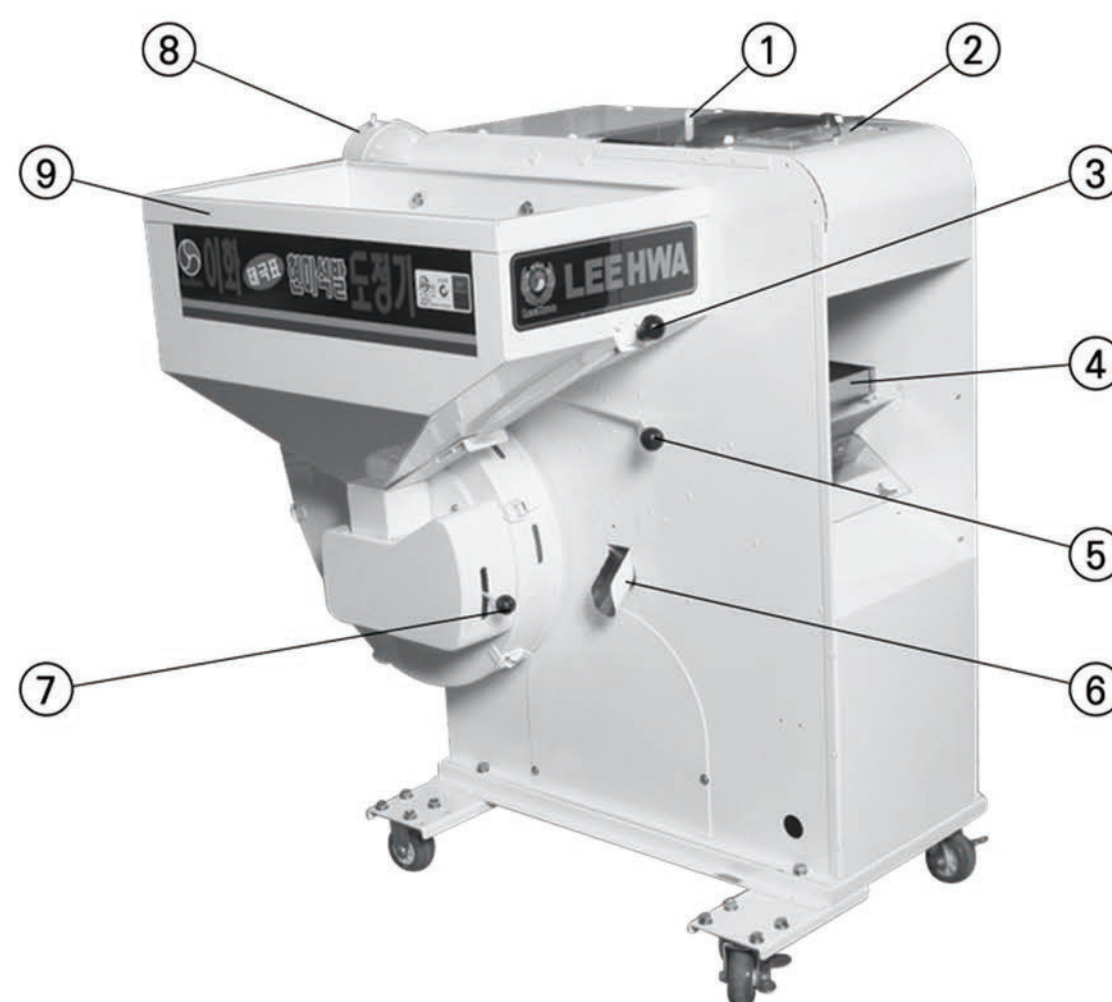
### Name of each part

1. Elevator
2. Panel
3. Adjuster handle, rice outlet
4. Rice bran cyclone
5. Stone release lever
6. Stone picker
7. Sack hanger (Rice sack)
8. Power cord wire
9. Rice broken screening receiver
10. Stone outlet
11. Rice polishing switch
12. Chaff outlet
13. Spread switch
14. Husk input port
15. Husk input switch
16. Air volume
17. Supply adjustment lever



MODEL: LH-300M INFINITY

1. Spread switch
2. Power cord wire Panel
3. Husk input switch
4. Foreign matter screening receiver
5. Air volume adjustment lever
6. Shrivelled kernel outlet
7. Supply adjustment lever
8. Chaff outlet
9. Husk input port



MODEL: LH-300HM INFINITY

Prepare



## 2. Preparations

 Please remember the name of each part.

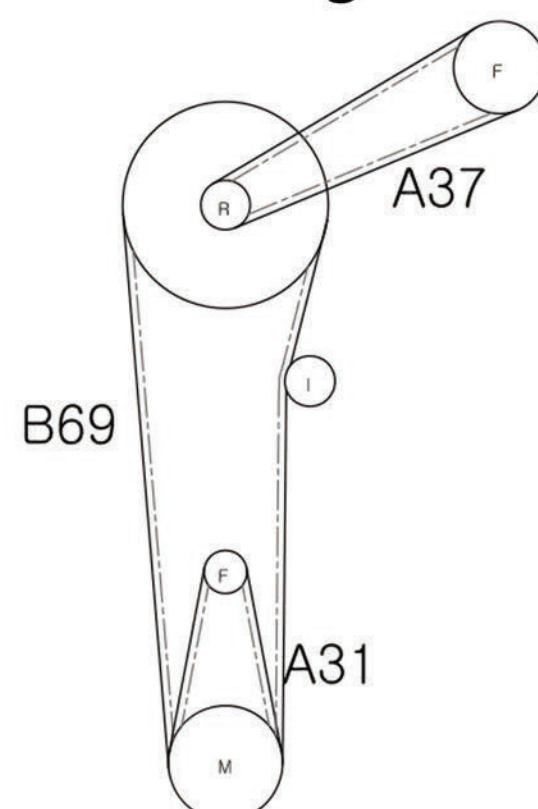
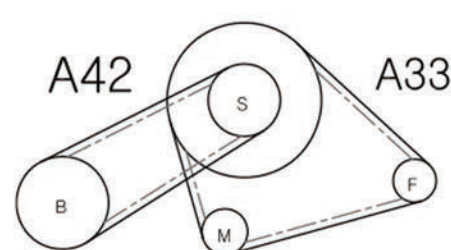
### Specification sheet

Model	LH-300M INFINITY	LH-300HM INFINITY
Type	Impeller type Turbo Fan Friction	Special hub type for brown rice
Size(W×D×H)	1,424×1,090×1,540mm	692×893×970mm
Weight	250kg	78kg
Power	4.7kw	0.7kw
Yield	275~300kg/hr	275~380kg/hr
Exhort power	5Hp, 1/3Hp, 1Hp	1Hp

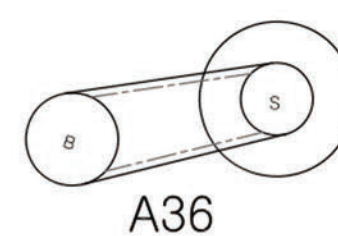
### ▼ Belt

#### Rice milling room

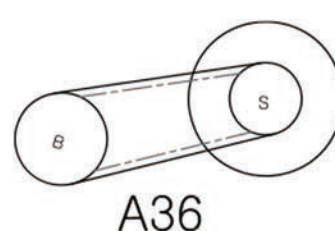
#### Stone remover



#### Brown rice room

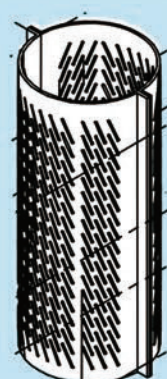


#### 〈LH-300M INFINITY〉



#### 〈LH-300HM INFINITY〉

### Expand product structure



Polishing Screen



Socket wrench  
2ea



Bolt driver



Spring 2ea

Prepare



### 3. Installation and Precaution

 Please refer to it during installation

#### Installation method

##### 1) Precautions during installation

- ① Install in a well-ventilated and dry place.
- ② Please install it on a flat and hard floor(It is very important to maintain the balance of the machine).
- ③ For electrical installation, select the wire thickness and individual switch according to the specifications of each model.

##### 2) Installation method

- ① Connect the hose to the chaff outlet on the left of the machine.
- ② Install the cyclone on the rice bran outlet on the right side of the machine.
- ③ When installing electricity, please use electricity above 6.0 SQ, use a single switch and a 50A leakage circuit breaker.
- ④ Open the cover in front of the machine, pull the rice screening receiver in front of the stone picker forward to flatten, and tighten the bolt tighter.
- ⑤ Drop the elevator outlet to the front.
- ⑥ Open the smut outlet on the side of the machine.
- ⑦ Assemble the brown rice switch.
- ⑧ The switch on the machine should operate in the off state.
- ⑨ Turn on the power switch.

#### Precautions during installation



##### Attention

- 1.Be sure to use a grounding wire.
- 2.The circuit breaker is a leakage circuit breaker, but 50A shall be used.
- 3.The circuit breaker is not used with other machines.
4. Do not install in a humid or dusty place.



## 4. Performance of each part

 Please confirm Performance of each part

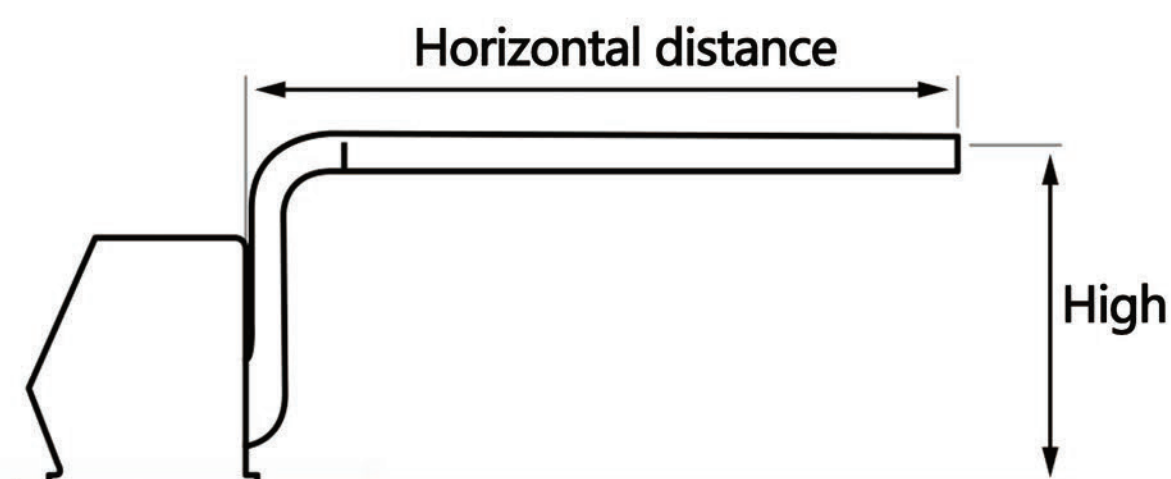
### Dust collection pipe

When operating outdoors, try to avoid the front and side wind.

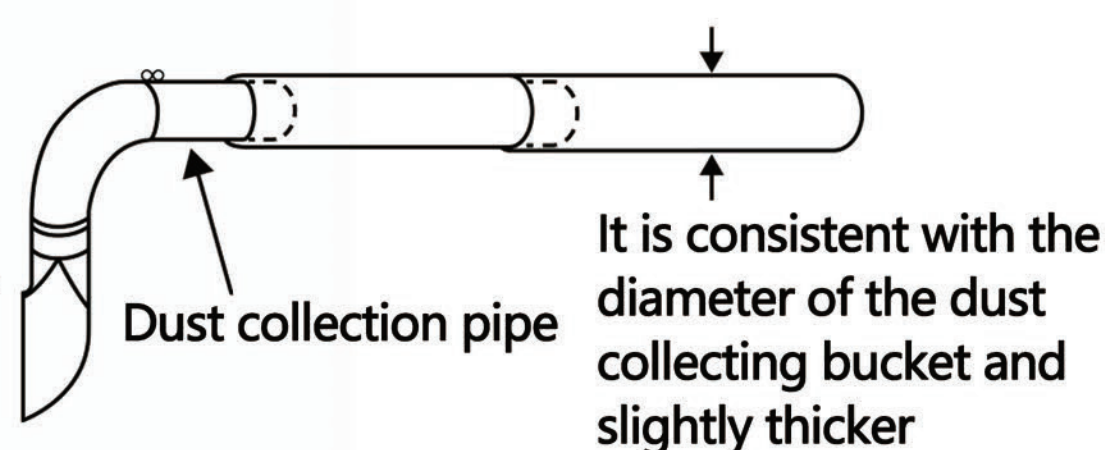
In order to maximize the efficiency of the machine,

Please pay attention to the following points.

1. When using dust collection pipe, please refer to the illustration on the right.
2. The dust collection pipe with the same diameter as or larger than the coarse bran discharge pipe of the rice mill shall be used, and there shall be no bending in the middle.

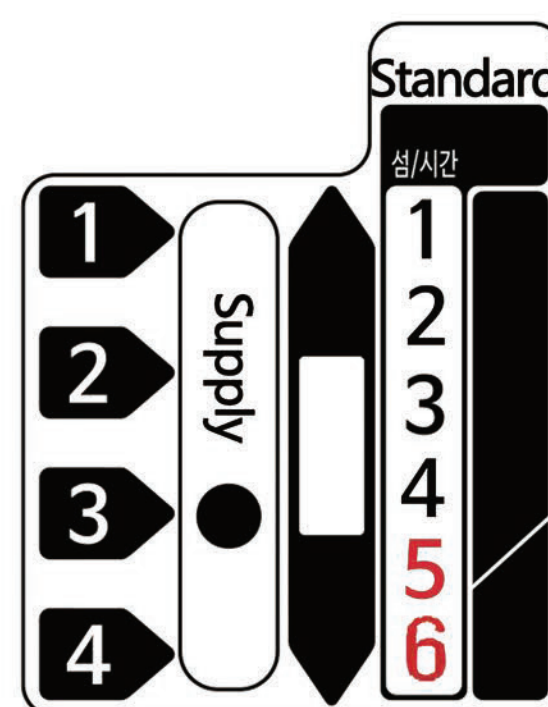


High	Horizontal distance
0.65m	About 8m
1m	About 6m
2m	About 4m



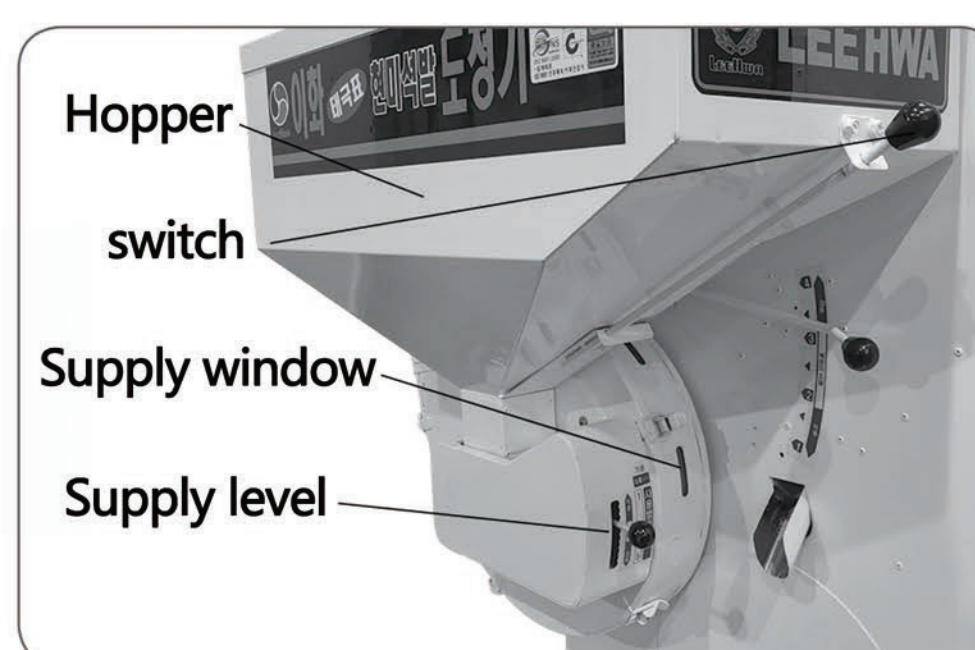
### Supply regulation

Before use, adjust the supply level to 3. If there are rice stalks and sundries in the rice, the rice milling volume will be reduced. At this time, adjust the supply level to 4 or 5



Rice supply is regulated by gear.

When the supply husk is adjusted to 4, the rice supply is increased;  
When the supply husk is adjusted to 1, reduce the rice supply.





## 4. Performance of each part

☑ Please confirm Performance of each part

### Shriveled grain outlet adjustment

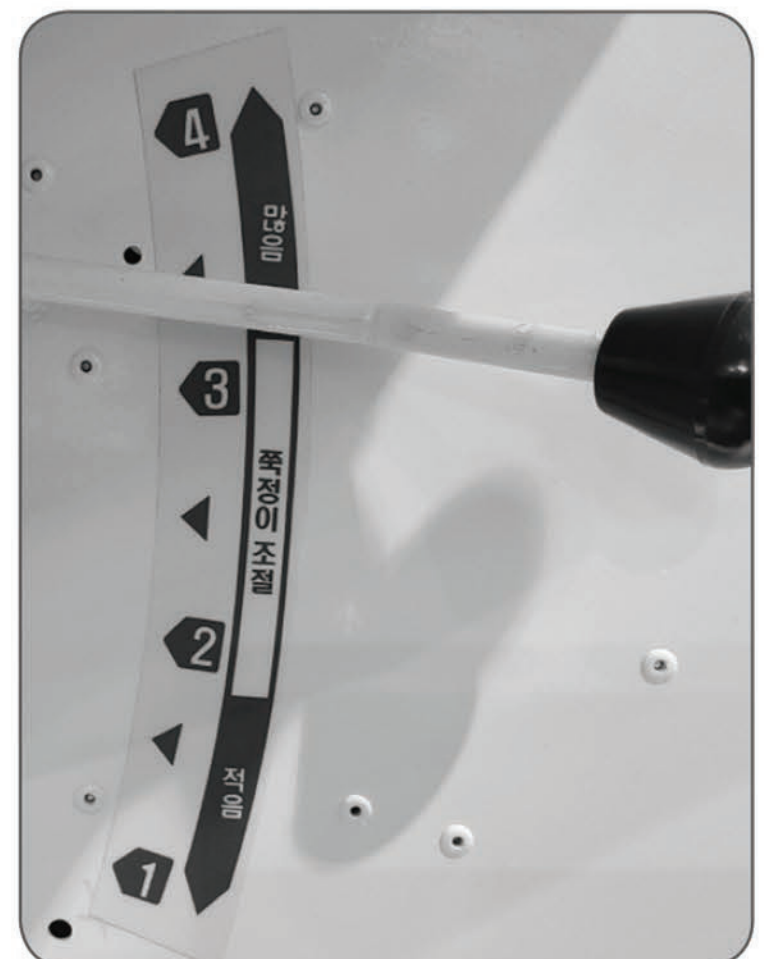
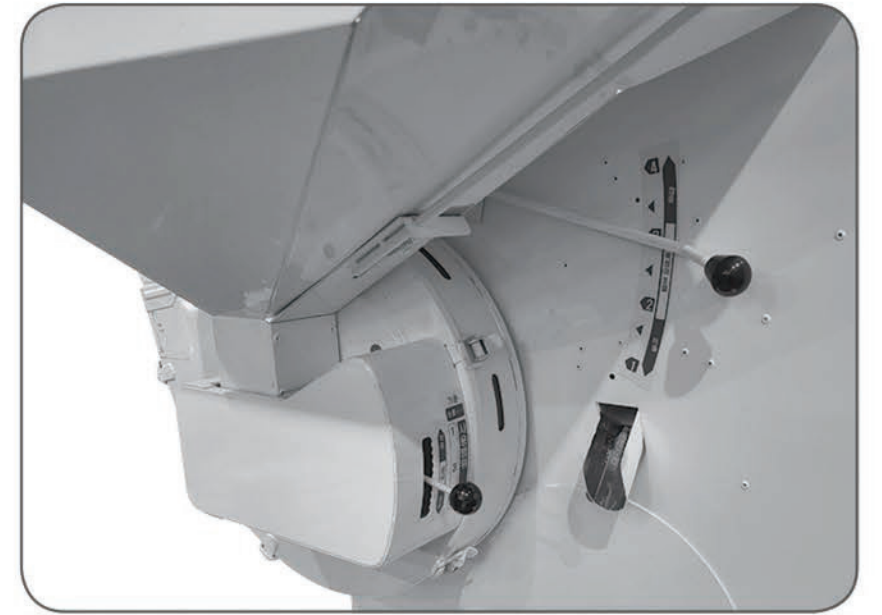
At the beginning of use, the gear lever is adjusted to 1.5 lever, The regulation degree of shriveled grain outlet affects the cleaning of shriveled grain and the quality of brown rice, The best condition is that there is a small amount of brown rice at the shriveled grain outlet.

Normally

- ◆The higher the lever, the stronger the wind, the more shriveled grains and more brown rice.
- ◆The lower the lever, the smaller the wind force, the less shriveled grain and the less brown rice mixed.

Attention:

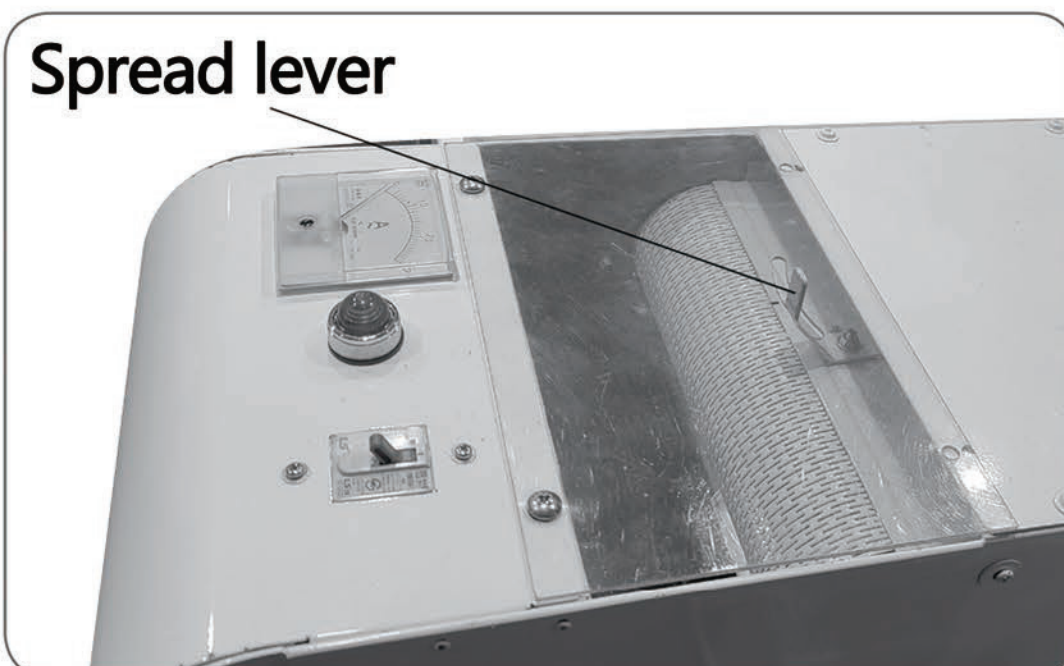
★ When the gear is 1, the brown rice is mixed more from the shriveled grain outlet or placed at 4, and the brown rice is still mixed more from the shriveled grain outlet, please assist in regulating the air port.



### Application method of spread lever

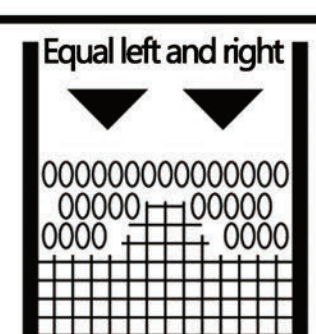
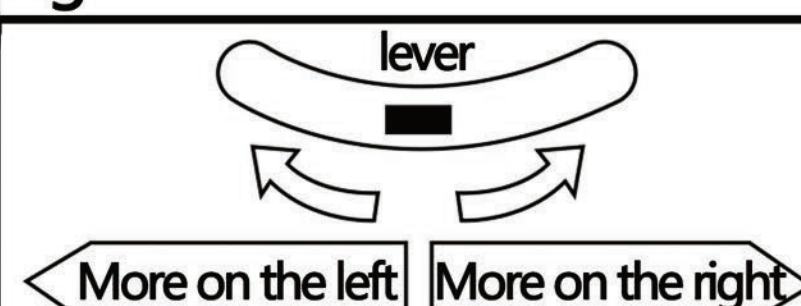
- (1) When the gear lever moves to the right, the right side spreads much more.
- (2) When the gear lever moves to the left, the left side spreads much more.

Spread lever



#### Usage of spread lever

It is recommended to adjust the left and right to the same amount.





## 4. Usage and Management

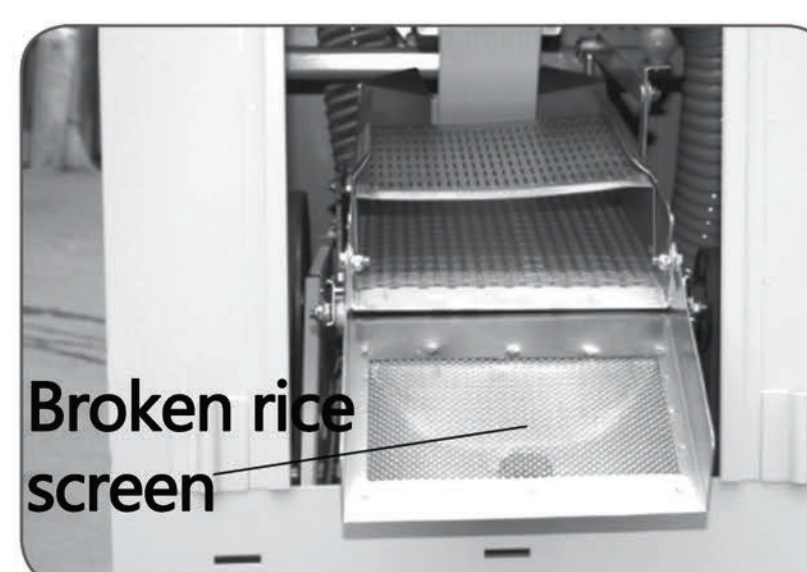
 Easy and convenient to use

### Brown rice Part

- (1) Please confirm that the hopper switch is off and pour husk.
- (2) Adjust the supply lever to 3.
- (3) Adjust the shriveled husk outlet gear to 1.5.
- (4) Turn on the power switch
- (5) After confirming that the machine speed is stable, open the hopper switch lever.
- (6) Adjust the left and right to the same amount.

### Rice milling Department

- (1) Open the plug-in board in front of the machine, turn out the broken rice screening screen, and tighten the bolt on both sides to maintain a certain angle
- (2) Turn out the elevator outlet.
- (3) Turn out the side impurity outlet.
- (4) Verify that all switches on the machine are off.
- (5) Turn on the switch.
- (6) Before the brown rice comes out, adjust the angle between the elevator and the screening receiver.
- (7) After a certain amount of brown rice is stored in the rice milling hopper, turn on the lever of the rice milling switch.
- (8) When rice come out, adjust the rice milling accuracy.
- (9) Look at the amount of rice to adjust the angle of broken rice screen.
- (10) Use the rice crushing box to pick up the newly milled rice and pour it into the rice milling hopper.



**Attention**

Please observe the amount of brown rice in the rice milling hopper to adjust the speed of brown rice.



## 4. Usage and Management

 Easy and convenient to use

### Increase the amount of brown rice

If you want to increase the amount of brown rice, move the lever to 4.

#### Precautions during operation:

Although the ammeter is within the specified range, the effect will be poor due to rice seeds and spindle rotation speed.



### At the end of the operation

- (1) At the end of the operation, turn off the hopper switch even if there is no husk in the hopper .
- (2) At the end of the operation, turn off the power supply and turn off the Air valve after the machine idles for a few seconds.

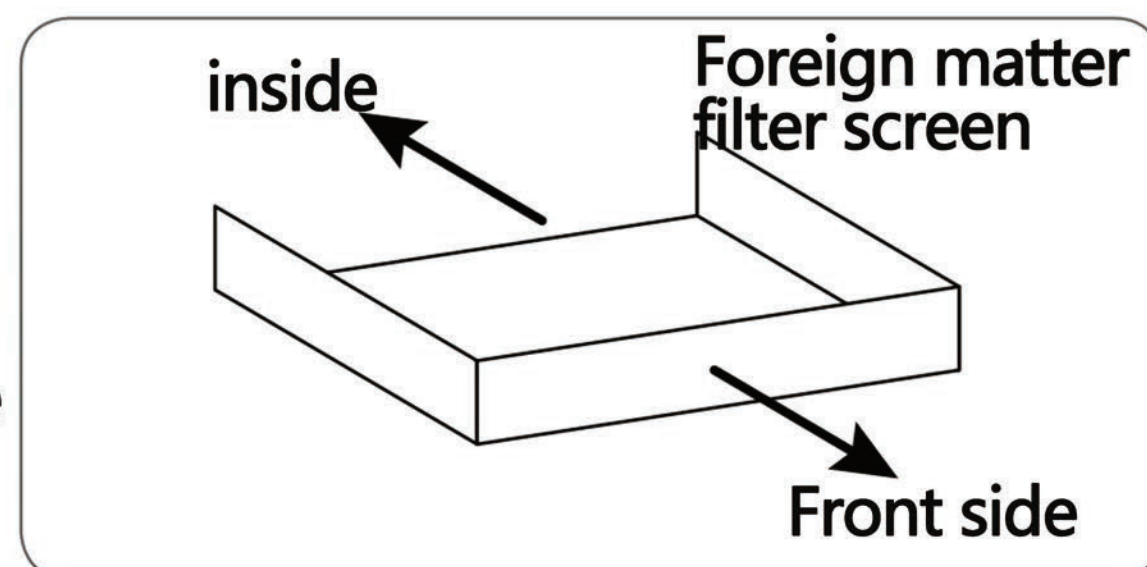
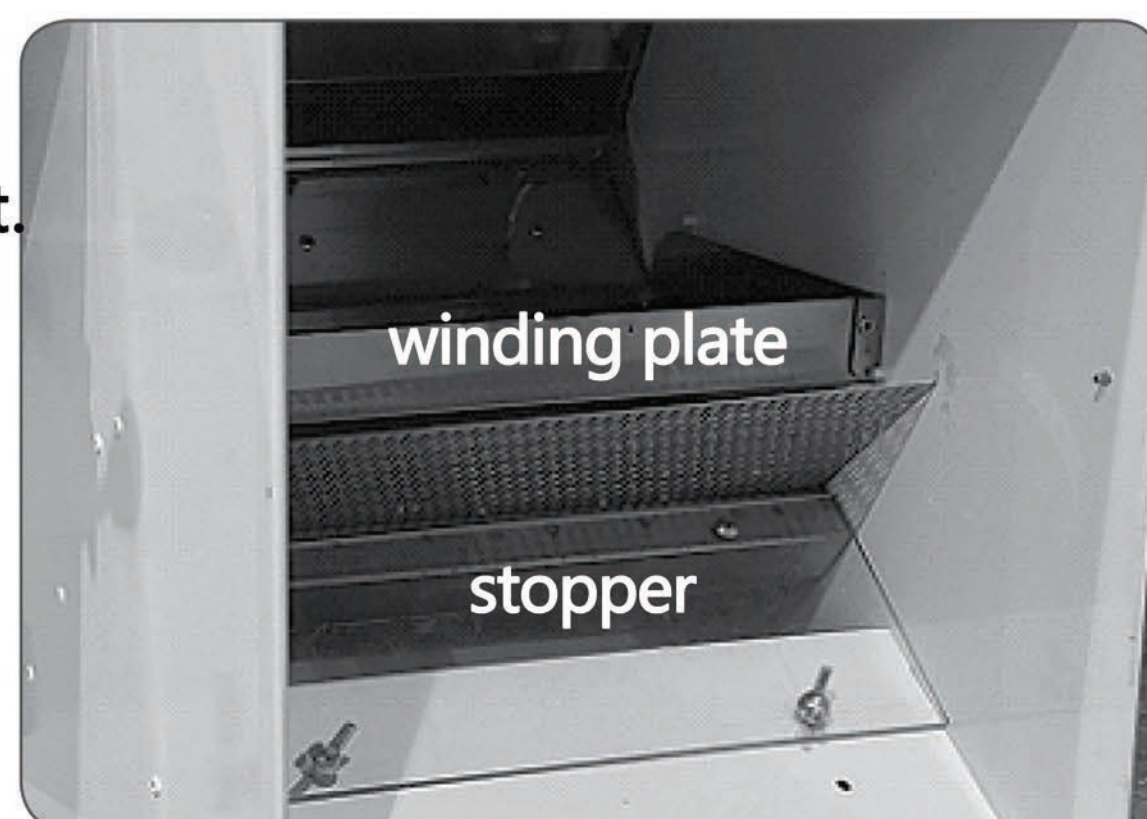
### Separation method of foreign matter filter screen

#### 1. Separation method

Lift the front side of the filter screen out.

#### 2. Installation method

- (1) Tilt the inner edge of the filter screen inward and push it downward.
- (2) If the filter screen is not tilted and pushed down, it is difficult to install it.
- (3) Push the filter screen forward and inward and try not to protrude beyond the edge of the machine.





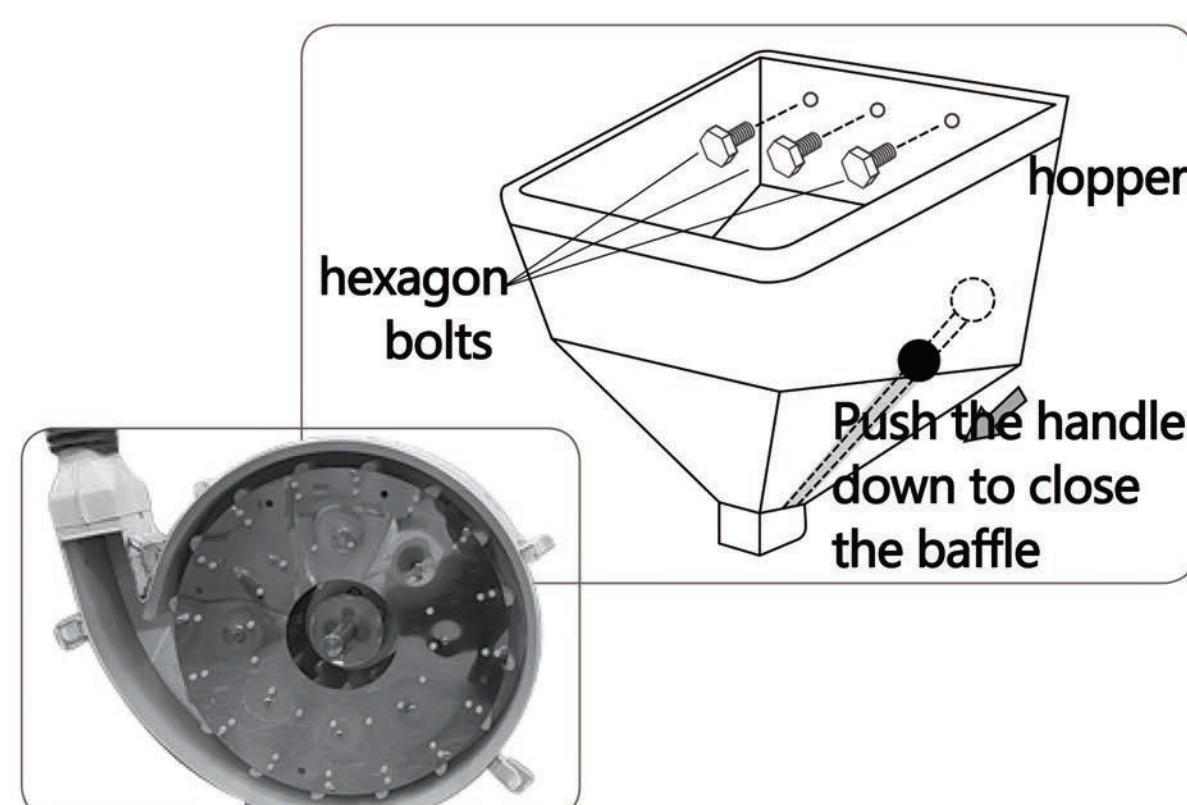
## 4. Usage and Management

 Easy and convenient to use

### The machine stops suddenly during operation

When the machine stops suddenly due to power failure and overload, pull out the power supply first and restart the machine after confirming safety.

- (1) Confirm the shutdown reason
  - Confirm whether the brake is normal
  - Confirm whether the wire falls off
  - others
- (2) Close the hopper baffle and loosen the 3 hexagon bolts.
- (3) Open the brown rice fan cover
- (4) After the inspection of each part is completed, wait a little while before starting the machine.

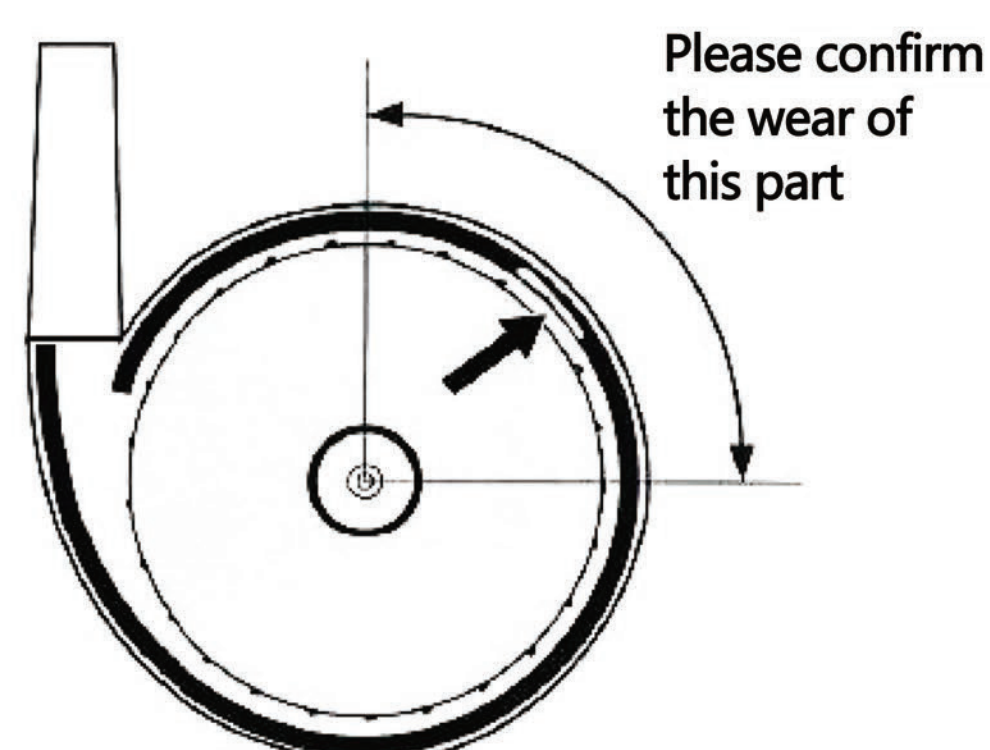


If there is no problem with the start of the brake, it indicates that it is caused by excessive motor load. At this time, it is necessary to reduce the supply.

### Shelling impeller and rubber pad

The rubber pad can be exchanged left and right and reused, If the rice milling amount reaches the following table, please confirm the wear degree of the rubber pad. When the wear reaches  $1/2 \sim 1/3$  of the original thickness, it needs to be exchanged left and right before use.

Confirmation period	1,500~2,000kg
---------------------	---------------



Observe the wear degree of shelling impeller or rubber pad. If it affects the use, please exchange accessories.

#### Durability benchmark

shelling impeller	rubber pad
5,000~6,000kg	3,000~4,000kg

- (1) The rubber pad durability benchmark is the data for left and right replacement.
- (2) According to the measured data of machine use status and rice status, if the machine use status and rice are bad, the parts may wear too fast.



## 4. Usage and Management

 Easy and convenient to use

### Process after machine operation

1. After the operation, master the following essentials and clean all parts.
  - (1) First confirm whether there is any foreign matter in the rice bran separation room, then open the inspection port and wipe it clean with a cloth.
  - (2) Clean the foreign matters and then remove the small foreign matters.
2. In order to prevent rats from entering the machine, please install the prevention plate.
3. Check for next operation
  - (1) Confirm the wear of shelling impeller and rubber pad.
  - (2) Confirm whether the belt is worn.
  - (3) Confirm the damage degree of screen.
4. Store the machine in a dry place away from direct light, and cover the machine with cloth.



#### Attention

If it is to be replaced or adjusted, replace or adjust it before use

### Storage and management methods of rice mill.

1. Check for next operation
  - (1) Belt tension.
  - (2) Confirm the wear degree of rubber pad and screen.
2. Storage method of rice mill
 

The correct storage method can prolong the service life of the machine

  - (1) Avoid installation in wet places and install on flat ground.
  - (2) Foreign matter filter screen, rice outlet and stone removal Board shall always be kept clean
  - (3) Clean each mesh surface with a brush
  - (4) To turn all the switches of the machine off.
  - (5) Cover the rice mill with a cloth.
  - (6) The startup switch and brake of the rice mill are closed.
  - (7) After the operation, turn the machine empty for a while to drain the rice inside the machine (prevent rats from approaching)

### Machine Management

- ① Check the tension of the belt.
- ② Check the abrasion level of the rubber pad and the screen.
- ③ Avoid humid area and store after installing on the flat floor.
- ④ Smut screen, rice outlet, and stone picker plate should be always maintained clean. (Wipe thoroughly by using a brush or others.)
- ⑤ Close all switches and outlets of the machine.
- ⑥ Cover the machine with the cover.
- ⑦ Put down the switch and a single switch of the machine.

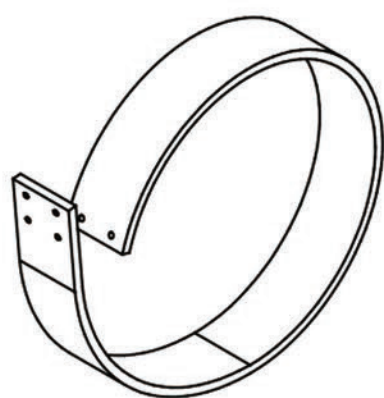


## 5. Component exchange method

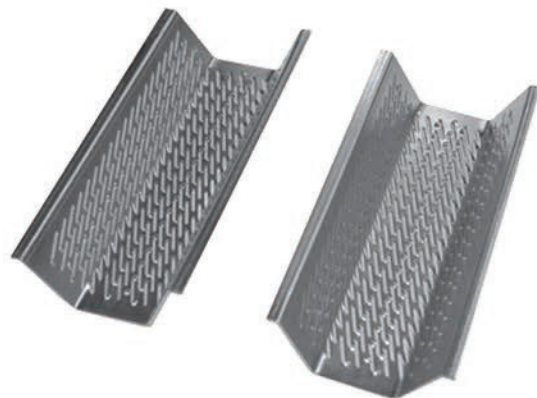
☒ Please confirm when changing rubber pad, impeller and screen

### Types of consumables

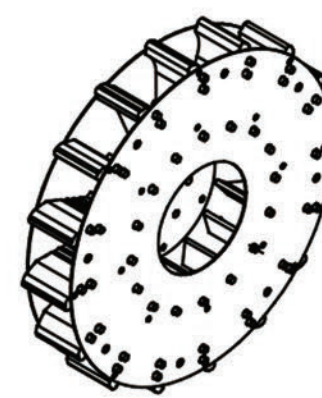
▼ Rubber pad



▼ Screen



▼ Impeller



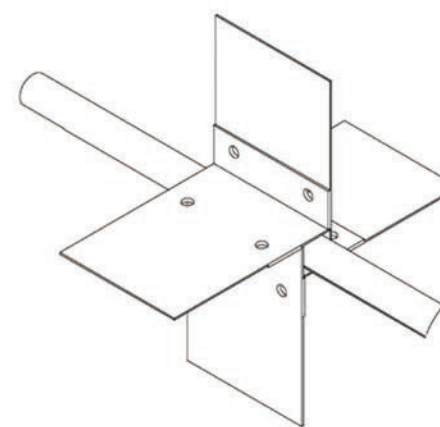
▼ Fine bran fan leaf



▼ Brown rice fan



▼ Chaff fan



### Replacement period of consumable parts

Name	Replacement period of consumable parts
Screen	<ul style="list-style-type: none"> <li>-There is rice in the rice bran</li> <li>-The current value does not change and the rice yield is small</li> <li>-After a period of use</li> </ul>
Fan, Impeller	<ul style="list-style-type: none"> <li>-There is fine bran on the surface of rice</li> <li>-The impeller blade is worn more than 1 / 2</li> <li>-Coarse bran cannot be discharged</li> </ul>

If you have any questions about damage, please consult our company or agent.



## 5. Component exchange method

☒ Please confirm when changing rubber pad, impeller and screen

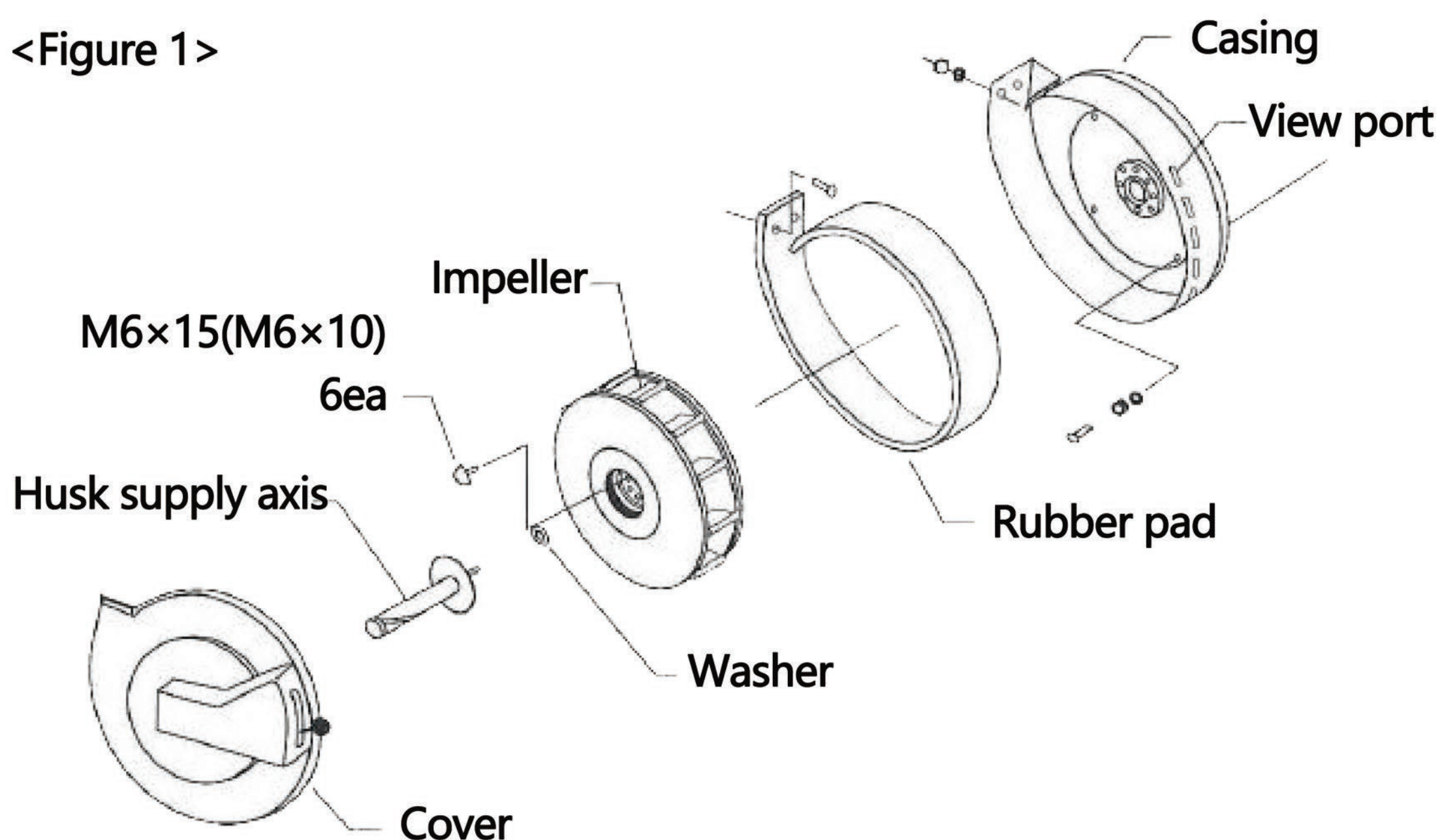
### Replacement essentials of impeller and rubber pad

Use tools.....Adjustable wrench or other form of wrench

Cross screwdriver

- (1) Remove the hopper(3 hexagon screws)
- (2) Remove the shelling fan housing(Refer to figure 1)
- (3) Turn the rice supply shaft to the right and pull it out with a wrench
- (4) Loosen the 6 M6×15 bolt that fix the shelling impeller on the main shaft and take out the shelling impeller
- (5) The rubber pad is fixed in the shell of the impeller with M5×20 bolt and nuts. After loosening the bolt and nuts, the rubber pad can be removed

<Figure 1>



### Precautions for use

If there is brown rice jumping out of the inspection port, it indicates that the rubber pad is damaged. If it is continued to be used, the rice shelling rate will be reduced and there will be broken rice. It is recommended to replace the shelling impeller and rubber pad at the same time.



## 5. Component exchange method

 Please confirm when changing rubber pad, impeller and screen

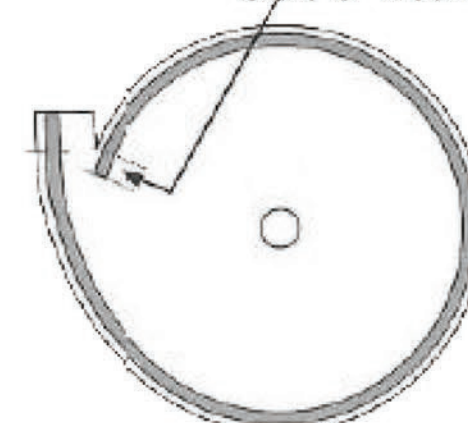
### Replacement essentials of impeller and rubber pad

(6) Within the wear range of the rubber pad, if the original thickness is  $1/2 \sim 1/3$ , the rubber pad can be replaced left and right according to the following points.

- ① Loosen the bolt and remove the rubber pad.
- ② After turning the rubber pad left and right, fix it in a new hole on the brown rice shell with screws.
- ③ At this time, as shown in Figure 2, pay attention to make the edge come out slightly when installing the rubber pad.
- ④ Temporarily fix the rubber pad in the shell, concave the rubber pad by hand as shown in the figure, and push it inward. At this time, the rubber pad will be in close contact with the shell.



The edges come out a little



<Figure 2>



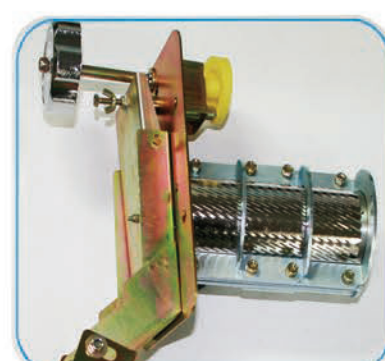
### Method of changing polishing screen



1. Open the door and unscrew the 4 bolts on the front.



2. If you pull the polishing adjuster control, the housing of screen will come out.



3. Loosen the 8 bolts of the support the polishing screen and the polishing screen will come out. (Do not have to unscrew it completely.)



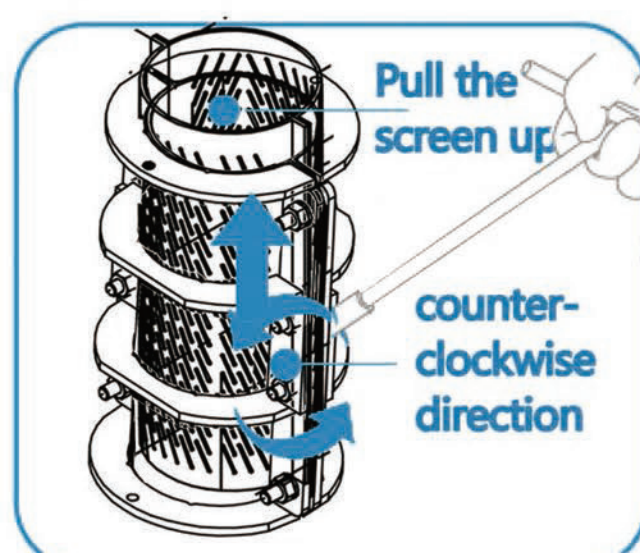
4. Change with the new polishing screen.



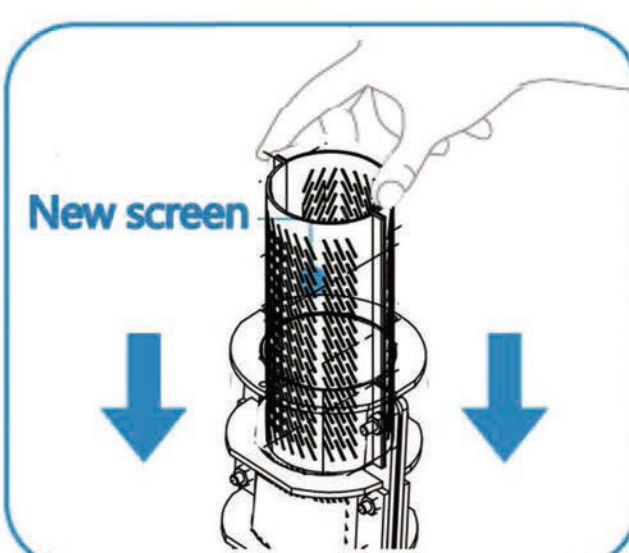
5. The assembly shall be carried out in reverse order.



6. After assembly, operate the machine for 2~3 minutes.



Loosen the bolt to separate the screen from the support



Change with the new screen





## 6. Solutions when problems occur

### 1 There is no brown rice at the brown rice outlet

The motor is reversing	※ Replace the motor cable
------------------------	---------------------------

### 2 The rice milling outlet is mixed with husk

Uneven hopper feeding	Remove impurities from Rice
Low shelling rate	Increase spindle speed
Husk has too much water	Dry husk to 14% ~ 16%
The water content of rice is inconsistent	Dry the husk to uniform moisture
Excessive energy consumption	Reduce supply
Determine whether the screen is damaged	Change screen
Confirm belt tension	Adjust belt tension

### 3 Rice milling outlet mixed with coarse bran

The dust collecting pipe is too long	Shorten the dust collection pipe
circuitous dust collecting pipe	Keep the dust collection pipe straight
The end of the dust collecting pipe is blocked	Remove the blockage
Small wind	Turn up the wind

### 4 Efficiency cannot be improved

Hopper switch not fully opened	Fully open the hopper switch
Too little supply	Turn the supply lever up in direction 4
Husk is in bad condition	Remove husk straw and broken residue
The voltage drop reduces the spindle speed	※ Please confirm the power status
The spindle speed decreases due to poor motor	※ Repair or replace
Husk has too much water	Dry husk to 14% ~ 16%
The water content of rice is inconsistent	Dry the husk to uniform moisture
Low shelling rate	※ Increase spindle speed

### 5 High broken rice rate

Excessive rotation state	Reduce the rotation speed for reuse
Impeller, rubber pad worn	※ Inspection and replacement
The husk is too dry	Dry husk to 14% ~ 16%
Husk doesn't dry well	Dry husk to 14% ~ 16%
The water content of rice is inconsistent	Dry the husk to uniform moisture
The blades of the Impeller are worn	※ Replace the fan blade
Low shelling rate of brown rice	※ Reduced slewing speed and efficiency
Processed germ rice	※ Reduced slewing speed and efficiency
Late harvest husk	※ Reduced slewing speed and efficiency
Husk with diseases and insect pests	※ Reduced slewing speed and efficiency



## 6. Solutions when problems occur

### 6 Brake activation

Excessive load	Reduce supply
Belt slip	Change belt due to damage or looseness
Iron blocks and big stones in the machine	Remove impurities
Rice stuffed in the screen	Clean the screen
Dry state of husk(14% ~ 16%)	Confirm husk moisture and cleaning status
The motor point has foreign matters, which makes the motor unable to start	※ Open the motor cover, clean the motor point and clean the inside of the motor
Please confirm power connection is short circuited	Connect the power supply

### 7 Sudden noise in use

Foreign matter entering the machine	Remove foreign matter
Bearing damage or loose nut will make noise	※ Replace the bearing ※ Tighten the nut

### 8 There is rice in the fine bran

Determine rice outlet	Clean rice outlet
The screen is broken	Replace screen

Proper use and cleaning management can prolong the service life of the rice mill and maintain the best performance.

If the repair is requested, we will do our best to process it promptly.



Region	Remarks	Address	Company Name	CEO	Telephone

## 8. MEMO

A decorative background image featuring a golden wheat sheaf on the left side of the page. The wheat stalks are detailed with green leaves and golden heads, extending diagonally across the page. The entire page is covered with horizontal ruling lines, typical of a notebook or ledger.



# Product Warranty

Name of Product	
Date of Purchase	
Period of Warranty	1 year from the date of purchase

Customer Info.	Address			
	Name		Tel	
Agent Info.	Address			
	Seller			

※ When inquiring the repair, this Product of Warranty with the date of purchase is required to get the full service. Please keep this.

1. The quality warranty of this product receives the warranty which is stated here.
2. The free warranty period is calculated from the day of the purchase. Make sure your place of purchase states the date of purchase.
3. If this product is used with the rated power or higher (abnormal using environment, etc), free warranty is not available.
4. Consumable parts are paid services.
5. Free service does not apply to malfunctions caused by the user's negligence.
6. This warranty will not be reissued.



**이화산업사**  
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[ For safety, please read the manual before operating the machine. In order to improve the quality, the contents of this manual can be changed without notification. ]

More convenient, More healthier...  
your Well-being Life starts from now on



## Service is the life of products warranty is a shortcut to service Festival

Our Lee-Hwa industry has harvest service centers all over Korea. After purchasing the product, if there is any inconvenience in the use process, you can contact the sales agent or the nearest after-sales service center at any time. We will serve you wholeheartedly and provide help. Please read this manual again before reporting the fault.

Declare fault

When reporting the fault, please provide the product model, fault status, customer address, name, contact number and accurate location in detail, and inform the time of purchasing the machine and the name of the salesperson, so that the fault can be handled quickly and conveniently.



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You can buy products or contact after-sales anywhere in Korea  
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