



**Hindustan  
Group**

# Solve Broken Rice Problem in Rice Milling Machine

**Expert Guide**



# Solve Broken Rice Problem in Rice Milling Machine

Are you looking for a solution and reasons behind broken rice when using the rice milling machine ?

We have listed some solutions to reduce broken rice quantity in the rice milling process.

## **Reason #1 Models of Rice Milling Machines**

There are several rice milling machine models available in the market. Every model has a different broken rice rate based on its construction principle.

Some traditional old-fashioned rice milling machines have a whole rice rate of only about 70%, and the broken rice may account for 30%.

On the other hand some rice milling machines, knifeless rice machines, have the whole rice rate above 90%, and the broken rice will be less.

## **Solution #1 Choose Rice Machine Model Wisely**

Therefore, from this point of view, if you want to reduce breakage of the rice, you should be cautious in choosing the model.

## **Reason #2 Speed of Drum**

Second, improper operation of the rice mill causes excessive broken rice. The rotation speed of the drum is too high to break the rice.

## **Solution #2 Controlling Speed**

Maintaining proper speed of drum could increase the quality of the rice milling process. According to the specific conditions, reduce the drum speed appropriately.

### **Reason #3 Pressure in the rice milling room**

The pressure in the rice milling room is too large, and the rolling time is too long to break the rice grains.

### **Solution #3 Reduce pressure in the rice milling chamber**

Moderately increase the gap between the rice knife and the drum, so that the pressure in the rice milling chamber is reduced, and the friction of the rice is weakened, so that the rice grains are not easily broken.

### **Solution #4**

Adjust the opening degree of the exit gate, that is, reduce the feed and increase the discharge. Thereby, the pressure in the rice milling chamber is lowered, the time in which the rice is squeezed in the rice milling chamber is shortened, and the rice grains are not easily broken. The opening of the inlet gate is controlled at 1/2 to 2/3.

### **Solution #5**

The size of the discharge port can be adjusted after the opening of the feed port is fixed, and the opening degree of the discharge port is appropriately increased. At the same time, it is observed whether the rice grain is intact and whether the beige color is white. If the rice mill has more rice, open it; if the rice is rough, turn it off.

### **Solution #6**

It should be noted that the gap cannot be larger than the longitudinal length of the rice grain. Otherwise, although there is no broken rice, the surface of the rice grain will be rough.

## **Solution #7**

For the rice mill with the outlet pressure, the pressure-reducing rudder can be reduced or moved. The pressure of the rice in the rice milling chamber can be reduced, and the residence time of the rice in the rice milling chamber can be shortened, so that the rice grains are not broken.

## **Reason #4 The dryness of processed rice**

Other problem, the dryness of processed rice

## **Solution #8**

If the moisture content of the processed rice is excessive, that is, the humidity of the rice is large, there will be a situation in which the rice mill has more rice. In this case, only reduce the humidity of the rice to increase the hardness of the rice, so as to reduce the situation of broken rice.

## **Solution #9 Regular Moisture Testing**

In Rice Mills moisture control is the primary task related to maintenance. Increase in moisture content of rice can increase broken rice quantity. Rice milling machines must maintain a certain degree of dryness. Moisture content should not exceed 14% & 15%.

### **Result of Ignorance**

- Increase in broken Rice grain
- Affected rice quality
- Increases Power Consumption

## **Solution #10 Cleaning Whitening Room**

Rice Mill maintenance staff should pay attention to check scattered pieces of remains such as nails, stones and other impurities in the rice.

### **Result of Ignorance**

- Causes blockage in Whitening Room
- Damage the rice screen

## **Solution #11 Rice Mill Machinery Parts & supportive parts Checking**

Check the rice mill machine parts such as rice sieve, rice knife and cylinder core on a regular basis also before starting the machine.

### **Result of Ignorance**

- If the bolts and nuts are loosen then accidents could happen

## **Solution #12 Regular Maintenance Tasks**

- Turn the **rice rubber roller** before opening the rice processing machine to see if there is a card.
- In Starting, Turn on the empty load to the normal speed, then pour the rice into the hopper, and pay attention to the operation of the rice mill at any time.
- Every day, check machinery & supporting facilities, and resolve ASAP for uninterrupted **rice mill operations**.

## Solution #13 1121 Rubber Rolls by Hindustan Group



This is the latest invention of our company & these 1121 Rice Husking Rubber Roll are today giving more than expected results to our customers for RAW PADDY.

This product has been designed in such a way that this gives very smooth running even after running at hot, humid condition and this leads to less broken of rice and longer life of rolls.

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