



**DALIANG**

**LHP-6-150**

**Combined huller and Whitener United Rice Mill**

# User's Manual



**丹阳市大粮机械厂**

**Danyang Daliang Machinery Factory**

# PART1:Introduction

LHP-6-150 Combined huller and Whitener United Rice Mill has high quality rubber roller rice huller combined with new structure rice mill with blowing wind.It is fine structure.It is both capable of operating continuously hulling and polishing.to turn pre-cleaned paddy into white rice in one pass.With advantages of less broken rice,high rate of polished rice,low temperature and little power consumption.

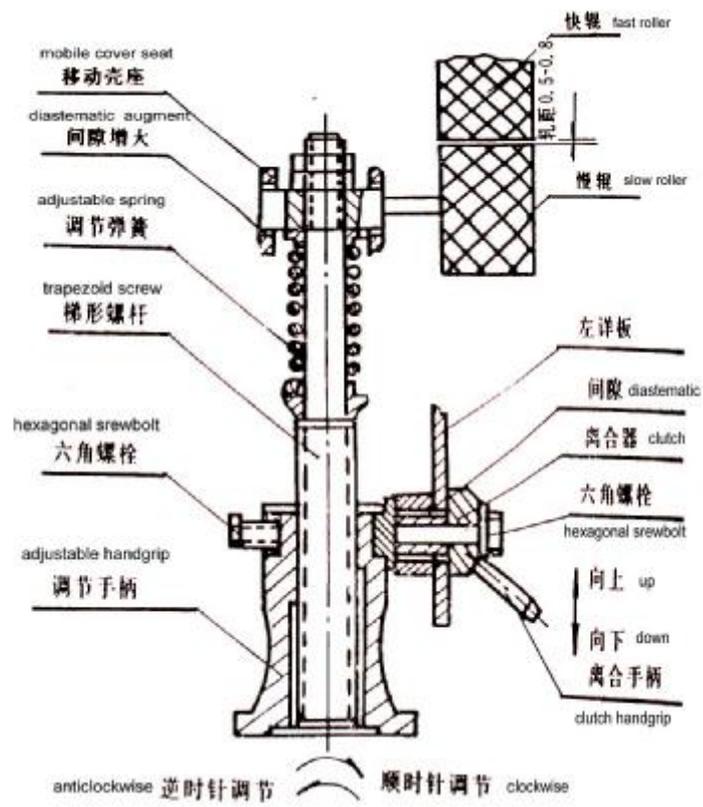
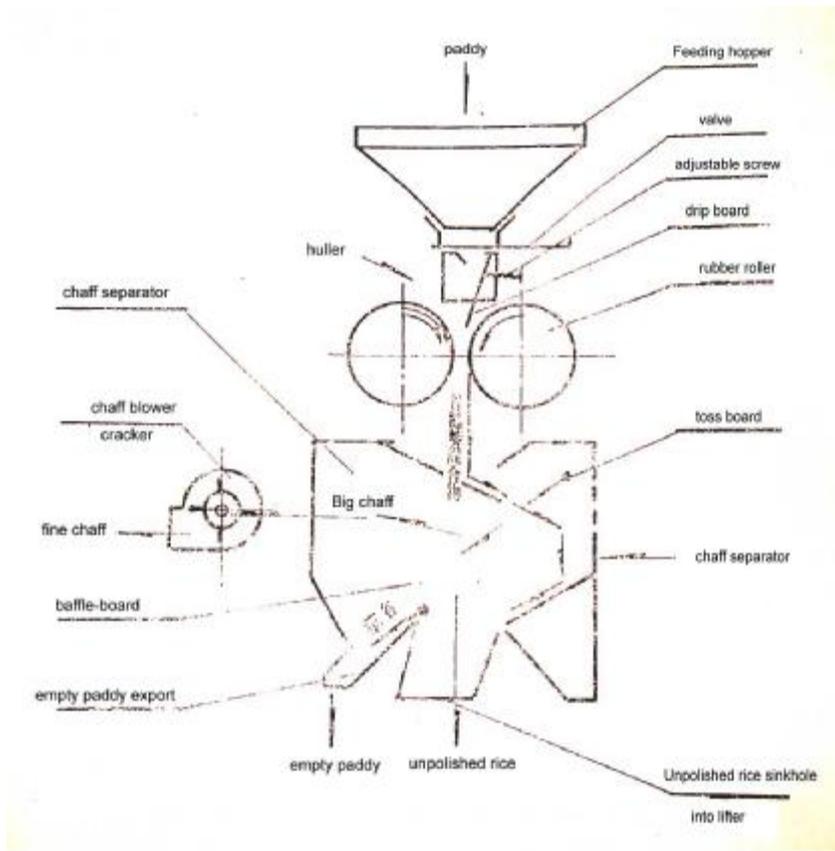
# PART2:Main Parameter

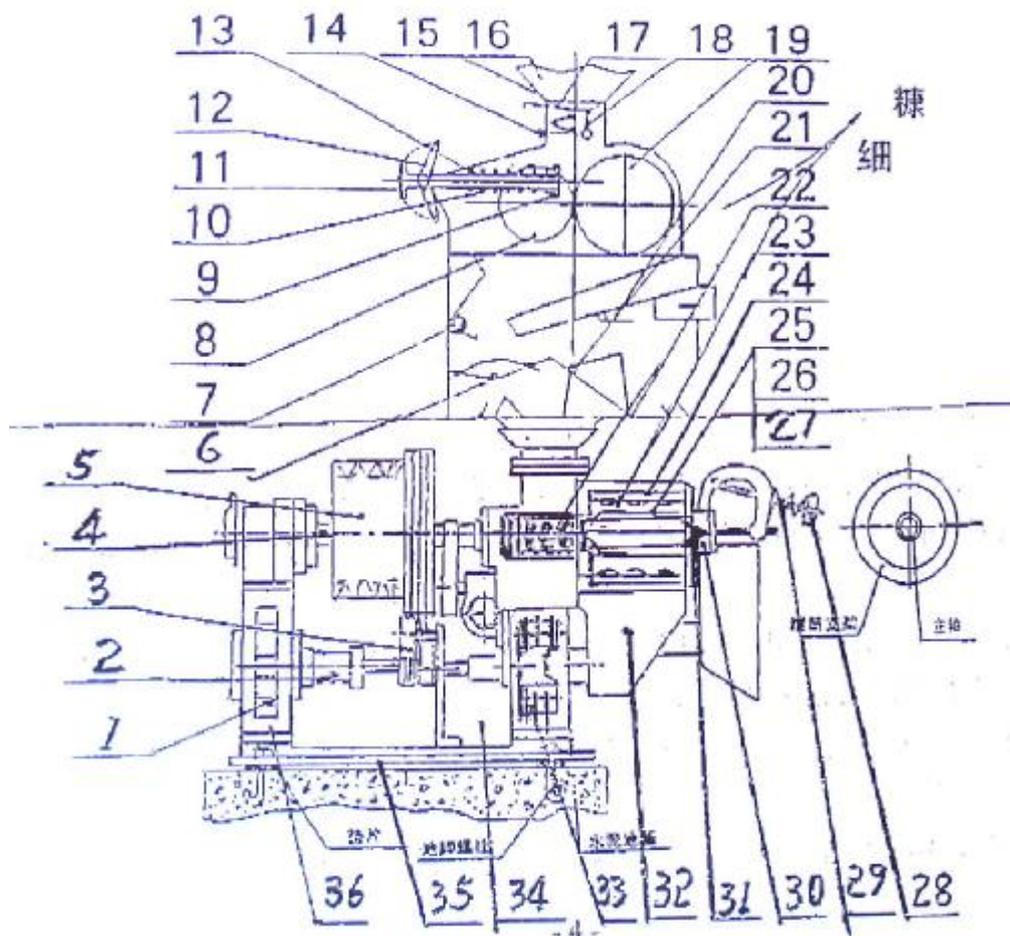
Output:	(800~1000)Kg/hour		
Power:	(18.5~22)Kw		
Ratio of winnowed paddy:	(70~72)%		
Huller main shaft speed	1230rpm		
Big chaff main shaft speed	1380rpm		
Whitener main shaft speed	920rpm		
Processing accuracy:	Standard first-class		
weight	800kg		
Dimension:	1250x650x2120(mm)		
Belt type/size			
	TYPE	NUMBER	Install position
B	2800	4	Main shaft belt pulley
	3050	2	Chaff belt pulley
	1219	2	Huller belt pulley

	1422	2	Chaff pulverizer belt pulley
	1270	1	Blower belt pulley
<b>Bearing type</b>			
part of Huller part			
	<b>TYPE</b>	<b>NUMBER</b>	<b>Install position</b>
	6206	2	Main shaft,the big end of mobile bearing cap
	6207	1	Right wallboard
	6107	1	the small end of mobile bearing cap
	6204	2	Cross bridge gear center shaft
	6203	2	Pinch roller shaft
part of big Chaff shaft			
	<b>TYPE</b>	<b>NUMBER</b>	<b>Install position</b>
	6307	1	Right end of big Chaff bearing base
	111205	1	big Chaff wheel of blower
part of Whitener			
	<b>TYPE</b>	<b>NUMBER</b>	<b>Install position</b>
	111217	2	Twosided Main shaft bearing base
	206	1	Blower bearing base
	207	1	
	307	2	Chaff cracker bearing base
	302	2	Fixture wheel

## **PART3:Fundamental structure**







- 1、喷风板 air-spray plank 2、喷风轴承座 air-spray bearing seat 3、风机带轮 blower belt wheel 4、主轴 principal axis 5、主轴带轮 principal axis belt wheel 6、开关板 switch plank 7、调风板 adjust an aerofoil plank 8、慢辊 slow roller 9、弹簧座（甲） spring coil seat (A) 10、弹簧 spring coil 11、轧距调节手轮 rubber roller distance regulation Hand wheel 12、离合器手柄 clutch hand handle 13、弹簧座（乙） spring coil seat (B) 14、流量调节手柄 the discharge regulate hand handle 15、快料插板 quick material Pegboard 16、料斗 hopper 17、导料板 lead to material plank 18、喂料辊 Feedstock roller 19、快辊 fast roller 20、拦板 block plank 21、分离板 separate plank 22、螺旋推进器 spiral propeller

23、碾米室 husk rice room 24、米筛 rice Sieve 25、米筛架 rice Sieve stand 26、压条 layering 27、米辊 rice roller 28、弹簧螺母 spring coil nut 29、压条弹簧 layering spring coil 30、出米口 rice expert 31、螺堵 nut block up 32、分离室 separate room 33、吸糠轮 absorb bran wheel 34、前座 front stall 35、底座 base 36、后座 rear seat

## **PART4:Operation procedures**

Will be selected over the paddy inject into Hopper, by regulating the flow regulator, falling into two rubber rollers of Speed different, relative rotation, and maintain a certain distance, paddy mixture in the separation indoor wind elections after separating rice husk discharge machines, brown rice by the Stock Guide to enter husking rice part in the spiral propeller of the role along the axis entered husking rice Room, subject to export resistance to impact grain between the pressure in rice roller under remove epidermis. Spindle Hole meters from the high-style roller jet injected into the wind groove milling room, the milled rice to enhance the effect, taking away some of the heat generated milled project. rice bran go out from rice mill by blower, when rice flow out from separate rooms to export , removing chaff once again .and it has been bright and clean hypothermia finished rice.

## **PART5: The methods of operation and matters needing attention**

## 1. Major equipment operation

### (1) Huller flow control

Huller flow regulation by the flow regulator, When adjust the handle counterclockwise rotation, Increased flow; Clockwise rotation, Slow down the flow. Flow sizes, which can be found through The target pictorialized outside regulator. when target point "1", Minimum flow. when first start, the target point between "1" "2"; Based on the facts, to gradually adjust.

### (2) Rubber roller adjust distance

Rubber roller distance adjust by Hand wheel. Hand wheel Clockwise rotation Reduce the distance, Instead increases. the distance of two rubber rollers keep between 0.5~0.8mm, the initial adjustment should at No-load operation. First two rollers transferred to contact state (Low noise from the friction of two rollers). Hand wheel rotated 120 degrees, was able to meet the required size. According to the trough of brown rice in the mill and then adjust. General rate of husk is (80 ~ 85)%, Fast off the equipment installed will enable rapid separation, can Rapid isolation or make up the two rubber rollers, lift upward, slow roller left fast roller,; Downward pressure, Taken closer.

### (3) Wind separation election regulation

Wind election separation of Brown rice mixture To regulate by air flow regulator. (7) the hand handle of flow regulator turn clockwise can

reduce speed.,Counterclockwise rotation speed increases. (6)the hand handle of regulator turn clockwise can increases speed.,Counterclockwise rotation speed reduce. When the mixture, which contains large amounts of rice husk,should adjust (7) --Counterclockwise rotation speed increases; If the integrity of paddy be found at the husk-export,should adjust (7)-- turn clockwise reduce speed. When rice mill Feed contains a lot of rice husk ,should adjust (6) Counterclockwise rotation speed reduce.

When flow and the rate of rice husk rate increase, wind-force turn higher; Conversely, decrease;when the rate of rice husk decrease, Wind-force corresponding to adjust lower.when turn on and turn off, Wind-force corresponding to adjust lower, to prevent infiltrate paddy in husk.

#### (4)Flow Control

Flow control devices were installed in the machine. When the need for regulating the flow of brown rice, Regulators used to regulate flow. After the completion of regulatory, guidance material damper should be fully opened to the lower plate

#### (5)finished Rice precision Control

Finished rice precision is decided by the size of the pressure resistance, Greater pressure, higher precision.but too high pressure,can lead to yield lower, high percentage of broken rice.

separate Room external button use to adjust wind flow, to control high percentage of chaff in rice. wind too strong , Rice be absorbed in chaff. If wind too small, too many chaff be left in rice .

## **2. Operation sequence**

adjust discretely preliminary=>turn on device=>close slow roller=>adjust flow/distance of rollers/wind flow preliminary=>Check the exports of materials (brown rice /Shriveled paddy/paddy)=> adjust flow/distance of rollers/wind flow=>open sluice board=>adjust flow of brown rice=>adjust finished Rice precision=>adjust wind flow, to control The volume containing rice bran .

## **3. Cautions**

- (1) before operation, make sure No plug, no-load start.
- (2) The ground should be smoothly covered with concrete. (or cement platform) to meet the machine at the same level. install the machine and calibrate the level to ensure the feeding plate gradually to the full, adjust the paddy flow and the pressure of rice exit by respective hand wheels to make the machine work at its full precision.
- (3) The sieve sheets are easily damaged by wear and tear on the side of exit. for prolonging its life turn it over after having used for a time, but if rice leakage happens, replace the damaged ones at once.
- (4) Check bearing regularly, stop immediately for check if it is abnormal.
- (5) When Mechanical failure or sudden blackouts on work, fast roller

Clutch pull handle should be left to the location.

- (6) When the rubber of fast r roller wear about half , fast roller and slow roller make exchange. When completely worn out, the replacement of new rubber roller.
- (7) Before stop operation, close feed flashboard, When materials are empty, then turn off.
- (8) Hammer is easy to wear, after hammer blunting, Reduce efficiency, Should carry out regular checks, Turn around to use or replace, one hammer can be turn around to use four times, All hammer away at the same time transfer.

## **PART6: Use and maintenance**

- (1) Rice cleared for operation before, Prevent access to hard objects
- (2) All gear must be installed secure, belts tightened properly
- (3) Replace rubber roller, roller ends to be Flush, the gap between the end wall and not more than 2 mm to prevent leakage paddy.
- (4) Various components periodic lubrication, Fill the Lubricant oil and grease, Bearing every three months Refuel lubricant. Gear Box 1 kg of fuel to maintain monthly replaced.
- (5) rubber roller can not Exposed to the sun, can not contact

oily and corrosive substances.

(6) Fragile pieces of regular check discovered that the damage immediately, replacing.

(7) After Machinery installation or replacement of parts,must No-load operate 10 minutes, Machinery to start work after the normal operation。

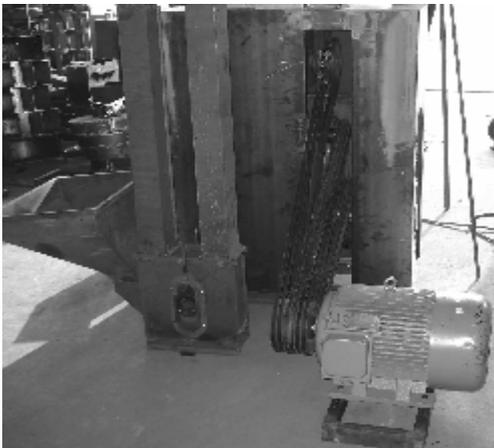
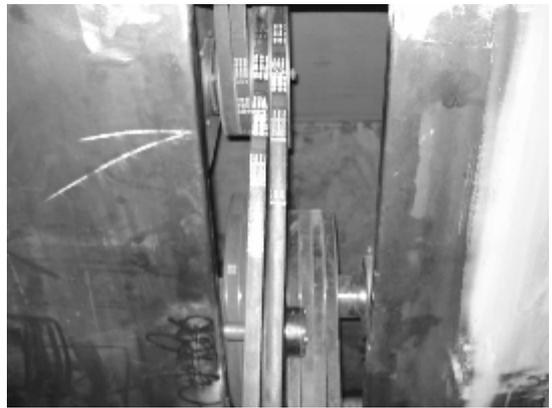
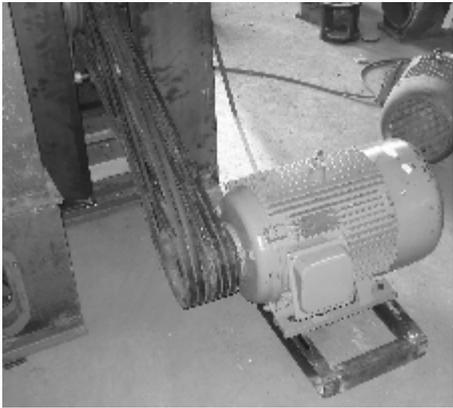
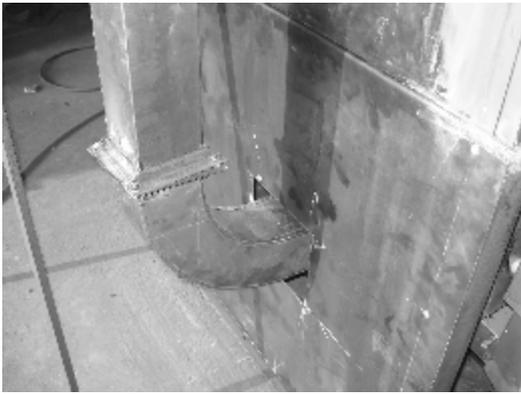
## PART7: Troubleshooting

trouble	Diagnosis	disposal
Two rubber roller Not rotating	paddy plug	Close Feed inlet damper, clutch handle loose two roller,make paddy flow down, Adjust flow Appropriate.
Belt dripping	1) the belt wheel isn't parallel with the machine 2) belt loosing	1) regulate to be parallel 2) tighten
Machine works overload or motor is overhead with buzzing	1) the motor power is too low 2) paddy isn't dry 3) High pressure on the rice-exit 4) Power voltage low or unstable 5) Too much feeding	1) replace with high power motor 2) dry paddy 3) decrease pressure 4) decrease paddy flow
High percentage of broken rice or paddy in rice	1) paddy isn't dry 2) high or low pressure at the rice exit 3) the main shaft is offcenter,the gaps between the iron roller and sieve frame aren't equal	1) dry paddy 2) adjust pressure 3) adjust machine base to make the gaps equal
Rice in chaff	1)sieve sheets break 2)strong wind by chaff	1) Decrease feeding flow 2) adjust the blower with

	absorbing blower.	hand wheel
Sieve frame doesn't work	<ol style="list-style-type: none"> <li>1) gears break</li> <li>2) gears stacked with much chaff</li> <li>3) belt loosing</li> </ol>	<ol style="list-style-type: none"> <li>1) replace and add grease</li> <li>2) clean out chaff</li> <li>3) add grease</li> </ol>
The main shaft blocked	<ol style="list-style-type: none"> <li>1) feeding too much</li> <li>2) high pressure</li> </ol>	<ol style="list-style-type: none"> <li>1) turn off, then turn and clean the main shaft</li> <li>2) adjust pressure with hand wheel</li> </ol>

## PART8:Equipment installation chart





# PARKING LIST

<b>PARKING LIST:LHP-6-150</b>			
NO.	Parts Name	Quan	Notes
1	LHP-6-150 main machine	1	Big Wooden case
2	Low Speed Litfer	1	Wooden case
3	22KW motor	1	Wooden case
4	0.75KW motor	1	Wooden case
5	dust collector and Tripod	1	
6	Feeding hopper	1	
7	Straight pipe for Chaff expel	1	
8	curve pipe for Chaff expel	2	
9	Big chaff pipe	1	
10	Motor GYM	1	
11	A SET OF BELT	1SET	assembled
12	Electric cabinet	1	
13	Accessory box	1	
Accessory list( presentation)			
1)	Iron roller	1	
2)	Sieve sheet	6	
3)	Layering	6	
4)	Screw propeller	1	
5)	hexagonal Sieve frame	1	
6)	semi-circle	1	
7)	blade(hammer)	16	
8)	Griding sieve	1	
9)	User's manual	1	
10)	Parking list	1	
11)	Key for Electric cabinet	2	