

# **SFSP- SERIES HAMMER MILL**

# **OPERATION MANUAL**



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**江苏中天农牧机械有限公司**

**JIANGSU ZHONGTIAN AGRO MACHINERY CO.,LTD**

**Important instruction:**

1 This manual detailedly describes SFSP series zhongtian superior, champions hammer mill of each system structure, function and use and maintenance method. Before installation and use of the machine , customer should read the manual, and have a full understanding of the ministries and its structure and function , then have operation and maintenance of the machine. Due to the continuous improvement of product structure, after a certain time period, the manual of narrative content and the actual situation of the products will have small changes. Users should pay attention to it.

2 Please propose your advice to us for melioration when finding quality problem or others. Thanks !

## 1. USES,APPLICABLE SCOPE AND FEATURES

### 1.1 Use And Applicable Scope

This series of hammermills can grind various pellet feed materials such as corn, sorghum, wheat, soya,. Crumbled cake and others. And they are specially desinged for materials of fibre and with high content of moisture and oil and fine grinding. They are the essential equipment in powder section on compound feed mills.

### 1.2 Features

The features of this series Hammer Mill are as follows.

- a. Coarse and fine grinding can be done.
- b. The type of tear liner hammer mill can prevent the materials from agglomerating and turning bad.
- c. Tear liner screen structure and large discharging area make discharge quickly and improve capacity.
- d. The built-in rotors are used to avoid flee of ground material.
- e. Regrinding chamber can destroy the material circumfluence effectively and can improve grinding efficiency.
- f. The base of hammermill is weldment of thickened steel plates.
- g. Replaceable wearproof parts and double wearproof plate are adopted in the grinding chamber and parts of contact with materials.
- h. It adopts imported high-quality bearings that ensure the mainframe runs smoothly.

In a word, this machine has features of simple structure, durability, safety, reliability , easy installation, simple operation, less vibration and high productivity.

## 2. TECHNICAL PARAMETERS AND PERFORMANCE INDEX

### 2.1 Main technical parameters. See table 1 and table 2.

Table 1.

Parameter Model	Winning 88-I	Winnin g 88-II	Winning 88-III	Winning 88-IV	Winning 88-V	Winnin g 88-VI	Winning 88-VII
Standard	112*25C	112*30 C	112*38C	112*50 C	112*60C	112*75 C	112*100C

Rotor Dia(mm)		1120		1120		1120		1120		1120		1120		1120		
Mainshaft Speed(rpm)		1480		1480		1480		1480		1480		1480		1480		
Linear Velocity of Hammer(m/s)		86.5		86.5		86.5		86.5		86.5		86.5		86.5		
Hammer Number		54		64		64		108		138		180		216		
Equipped Power(kw)		45	55	55	75	90	110	132	160	160	200	200	220	250	280	315
Air Flow(m3 /min)	Coarse Grinding	50		60		77		96		116		155		192		
	Fine Grinding	70		80		108		135		160		217		260		
Equipment Resistance		Coarse Grinding 70-120mm H2O Fine Grinding 120-150mm H2O														

Table 2.

Parameter Model		Winner 98-I	Winner 98-II	Winner 98-III	Winner 98-IV	Winner 98-V	Winner 98-VI	Winner 98-VII								
Standard		138*25 E	138*30E	138*38E	138*50E	138*60E	138*75E	138*100E								
Rotor Dia(mm)		1380	1380	1380	1380	1380	1380	1380								
Mainshaft Speed(rpm)		1480	1480	1480	1480	1480	1480	1480								
Linear Velocity of Hammer(m/s)		106.5	106.5	106.5	106.5	106.5	106.5	106.5								
Hammer Number		54	64	90	108	138	180	216								
Equipped Power(kw)		45	55	55	75	90	110	132	160	160	200	200	220	250	280	315
Air Flow(m3 /min)	Coars e Grindi ng	61	74	100	117	148	195	232								
	Fine Grindi ng	80	96	130	152	192	254	300								
Equipment Resistance		Coarse Grinding 70-120mm H2O Fine Grinding 120-150mm H2O														

Performance □n□□x□S□e Table 3 and Table 4 for the performance indexes of this series of hammermills under the condition of proper installation, good air intake and correct operation.

Table 3.

Model Parameter	Winning 88-I		Winning 88-II		Winning 88-III			Winning 88-IV		Winning 88-V			Winning 88-VI		Winning 88-VII	
Power(kw)	45	55	55	75	90	110	132	160	160	200	200	220	250	250	280	315
Cpacity(t/h)	7-9	8-11	9-13	12-18	14-22	17-26	20-31	25-38	25-38	30-48	30-48	34-52	38-60	38-60	43-67	49-75

Table 4.

Model Parameter	Winner 98-I		Winner 98-II		Winner 98-III		Winner 98-IV			Winner 98-V		Winner 98-VI			Winner 98-VII	
Power(kw)	55	75	75	90	110	132	160	200	200	220	220	250	280	280	315	355
Cpacity(t/h)	8-11	12-15	12-18	14-22	17-26	20-31	25-38	30-48	30-48	34-52	34-52	38-60	43-67	43-67	49-75	55-85

NOTE: The above is the indexes which conform to the following conditions:  
The moisture content of material is not over 13%, and volume is not below 0.72t/m<sup>3</sup>. Diameter of holes in the screens of mill is  $\phi 3$  and hole-opening rate is not below 33%.

## MAIN STRUCTURE AND WORKING PRINCIPLE

### 3.1 Main Structure

A. Feeding Meatus B. Leading Plate C. Leading Spanner D. Hammers E. Screen F. Regrinding Chamber G. Twice Airflow Meatus H. Rotor I. Pin J. Door L Handlebar M. Screen Carriage N. Base of the air conveyor

#### **Figure1 Hammer Mill**

3.1.1 Base: Heavy-duty base serves to connect and support all parts of mill,

reduce vibration, improve reliability and prolong service life. The ground material is discharged from the discharge opening at the bottom of base.

3.1.2 Rotor: Rotor consists of mainshaft, hammer carriage, pin, hammers, bearing, bearing housing, ect, and is the main moving parts of mill. Rotor must pass the dynamic balance test with no hammer mounted as rotor speed is high.

3.1.3 Operation Door: Operation doors need to be opened when replacing screens or hammers. ZhongTian WINNING(WINNER) provides special screen carriage to greatly facilitate the screen changing and correspondingly increase the capacity.

3.1.4 Wearproof Lining Plate:

The part contacting the material in the grinding chamber is the wearproof lining plate. All wearproof lining plates of ZhongTian WINNING(WINNER)Grinder are designed to be a replaceable parts. When worn to a certain degree, it should be replaced to avoid damage and dropout and prevent from entering the grinding chamber and causing accidents.

3.1.5 Upper Machine Shell:

It connects the wearproof lining plate. Close the operation doors to seal the grinding chamber.

3.1.6 Feeding Guide Mechanism:

It makes the material enter the grinding chamber from left or right according to the direction of rotor (See F5).

3.2 Working Process

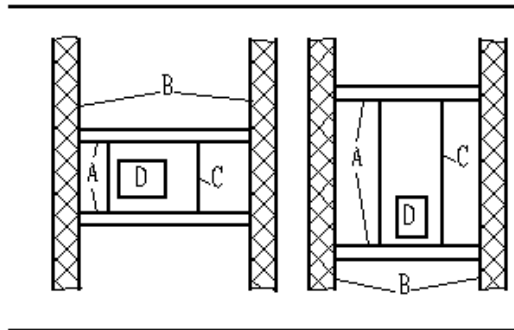
The pregrinding materials through the feeder into the upper feeding mouth., then feeding into the grinding chamber in right or left by the guidance palst. The materials are grinded by the high speed hammers and the screen and discharged

4. INSTALLATION INSTRUCTIONS:

## 4.1 Site Planning And Foundation Design

4.11 The floor should be designed by a qualified structural engineer.

4.1.2 The designed floor should have a good stability.



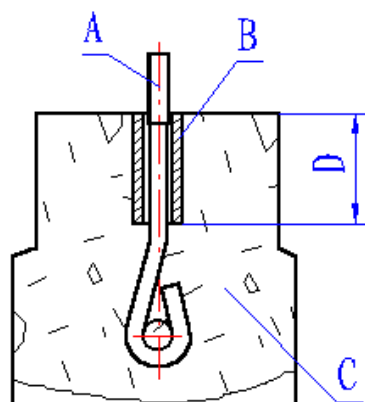
4.13 Place deep beams alongside the hammermill base.

Don't block any part of the discharge opening with the deep beams.

(See P.2)

(A) DEEP BEAMS (B) WALLS (C) HAMMERMILL FOOT PLATE (D) DISCHARGE OPENING

4.1.4 Floor structure is to have natural frequency above 8Hz.



### P.3 ANCHOR BOLTS

4.1.5 Secure the hammermill using anchor bolts. (See P3)

(A) ANCHOR BOLTS (B) PIPE (C) CONCRETE (D) DEPTH OF 100-150MM

#### 4.2 Clearance Around Hammermill

The necessary clearance for arrangement of conduit, switch, operation door and repairing must be ensured.

#### 4.3 Position the vibration damper pad under the edge of the hammermill

#### 4.4 Magnetic Protection

\*Magnetets are required ahead of a hammermill.

Material may have ferrous metals, tramp iron and filings. Even for the clearer material, it may also have the broken parts pieces from conveyor. These magnetic material must be taken out of the flow stream before enter the hammermill or they will become red hot on just a few seconds due to friction against the steel screens of the hammermill. This red hot ember can now become the ignition point for a fire or explosion. At the very least , they may damage hammermill parts and contaminate your finished prouduct.

FIG.4 is for 45 degree incline magnet adapter.

Notice: No matter which kind of magnet adapter is used, the strongest magnet can't catch the excessive magnetic materials if the material flow is moving too fast past the magnet

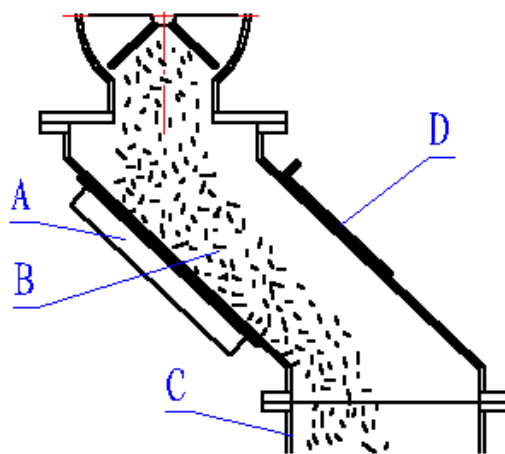


FIG.4 INCLINE MAGNET ADAPTER

(A) PLATE MAGNET (B) MATERIAL FLOW (C) HAMMERMILL (D) AIR INLET



## 4.4 Operation And Adjustment

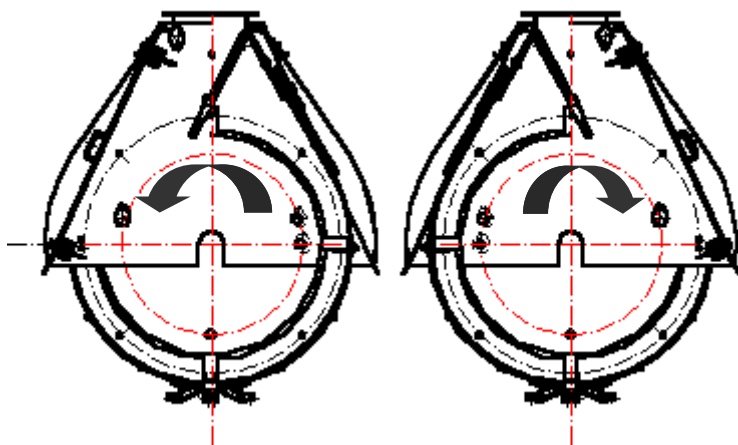
\*Before making any maintenance and cleaning, make sure all power is shut off.

### 4.4.1 Air Flow Adjustment

There are air aspiration ports on the operation doors of the hammermill. The purpose of the ports is to clean the upper supporting carriage and the powder which has already passed through the screens. Conveying the powder material to the discharge system will benefit material's passing through the screens. The opening is generally 6-10mm.

### 4.4.2 Hammermill Rotation Change

The utilization ratio of hammers and screens can be improved by running them on a clockwise or counterclockwise rotation. But the direction of feeding guide mechanism must be changed(See Fig.5). The deflection plate pivots from the center of the inlet on a pin. It is held at the top by two bolts. We also recommend that circuit is designed to make the mill work clockwise and counterclockwise.



**Figure5 Positive and Negative Rotor**

### 4.4.3 Optional Air Sub Base Adjustment

If your hammermill is equipped with an optional air sub base the following adjustment may be helpful.

On the opposite side of the air product discharge is an adjustable slide gate (See Fig.6). The amount of air is controlled by the opening of this slide gate. In the process of grinding , 15 to 20% of the air needs to be pulled across the slide gate to ensure no material build-up at the bottom. This is realized by adjusting the slide gate.

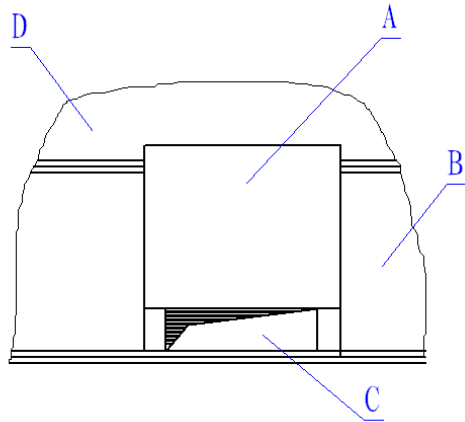


Fig.6 Adjustable Slide Gate

1. Adjustable plate 2. Air discharge base 3. Airflow 4. Grinder

#### 4.5 Trial Run

- (1) Whether all fasteners are tightened.
- (2) Whether screen press plate and door are tightened.
- (3) Whether guide plate fastness.
- (4) Whether all limit switch are trustiness.
- (5) Turn on the motor without anybody at the side of equipment, check if motor turns flexibly, ensuring no nosie and keeping runnig consistent with guide plate.
- (6) Turn on main motor.
- (7) After trial run all parts, if all items are normal, the equipment can jump in producing.

Warning: 1. Anything (include all parts of body) can not close with equipment or touch equipment when the machines are running. In order to avoid come out accident, you should maintenance the equipments after cut the electricity.

2. When the feeding scoop is built up, you can not use hands or stick to help feeding.

3. The ironware and stone can't mix in grinding material.

4. According to the nameplate of the hammermill choose motor, you can not improve the bearing rotate speed freely.

3. Installation field should firmness, generosity, airiness and have enough spare space and fire extinguisher.

## 1. Operation Conditions And Points For Attention In Operation

### 5.1 Operation Conditions

(1) All equipments should match with the hammermill.

(2) The working pressure should keep steady and the windage isn't downfall + or - 5%.

(3) It should feeding materials evenly on the top of hammermill.

### 1.1 Operation

Accurate operation includes two meanings: First it should make the equipments exert all equipments' power and improve capacity and make grinding size answer for require. Second it should operate and maintenance accurately that make the equipments have long life. You are wrong if you overlook anyone.

- Before operation, you should adjust some parts of the hammermill and carry out no-load test.

5.2.1 Boot-strap: After tests are all normal, you can start producing. You should follow the gradation of boot-strap. The gradation is from the top down as follow:

5.2.1.1 According to the steps of trial run, you should check all parts.

5.2.1.2 Turn on main motor.

5.2.1.3 Turn on latter transports.

5.2.1.4 Turn on feeding motor, adjust the rotate speed of feeder to the best appropriate numerical value.

### 5.2.2 Start working and adjusting

5.2.2.1 Adjusting the airflow scoop on the feeder or on the sidelong magnet. Under the speed of the feeder is not changed, if you want to adjust the airflow scoop, you only need to change the current of the main motor to the smallest.

5.2.2.2 According to the size you need, you can change the screens. When you main use the screens downfall  $\phi 3\text{mm}$  , you should install the hammers to the pin hole which is far away from the screens. When you main use the screens less than  $\phi 2\text{mm}$ , you should install hammers to the pin hole which is near the screens.

5.2.3 Shutting steps: After work over, you should turn it off. You should pay attention to the shutting steps. Its steps are reversed with starting steps. It's from the top down as follow:

5.2.3.1 Turn off feeder.

5.2.3.2 When the current of the main motor has reached the smallest, you can turn off the main machine.

5.2.3.3 Turn off latter transports.

5.2.3.4 Cleaning the impurity in the magent.

### 5.3 Attention items in operation.

5.3.1 There are not stone , ironware and twine in the materials.

5.3.2 Pay attention to starting or shutting steps.

5.3.3 When shut the main machine, there are not materials in the machine.

## 2. Maintenance:

ZhongTian Winning (Winner) hammermill are heavy-duty units insended to last for many years. All wear parts are designed as replaceable parts that should be inspected on a regular basis. Wear parts such as hammers, pins and screens should be kept on hand in case of a breakdown.

Inlet wearproof lining plate and tear circle liners should also be inspected on a rugular basis for wear. These parts are built to be very durable and to last a long time. But, if wear becomes extensive it should be replaced or it may cause mechanical failure.

6.1 The perforation in the screen, the position of the hammers and the amount of material flow into the mill determine the particle size. In general, changing the screen perforation size is the fastest way to obtain another particle size. The smaller the screen perforation is, the smaller the finished product will be; and the larger the screen perforation is, the larger the finished product will be.

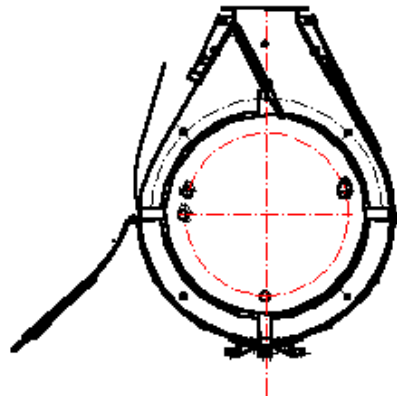
6.1.1 Screens may also become plugged if air flow is inadequate or the product is sticky. Thus the screens will have to be removed for cleaning.

6.1.2 The sharp edge of new screen serves greatly to stop ground product rotation within the grinding chamber and promote an efficient movement of material out of the grinding area as soon as it is properly sized. When the sharp edges have worn round, the capacity of the ground product to go through the screen will decrease with an increased friction load and a cut output. By reversing the rotor rotation on a regular basis ( weekly, per day, per shift depending on type of applications) you can use both sides of the perforated holes to prolong the screen life.

6.1.3 In addition, the requirements on screen thickness should be critical. While a thick screen may seem to last longer, the output will drop due to the difficulties for product to go through the screen. An overthin screen will be easily damaged.

6.1.4 ZhongTian's two-piece screen design makes it possible to further control product size and effect capacity by using two different perforations together in the mill. Typically these two sizes must be somewhat close to each other. Put the smaller perforation on the first side of inlet and the larger screen on the back side of the grinding chamber.

Always keep an extra set of screens on hand.



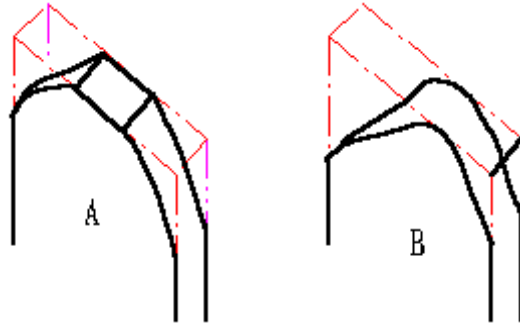
#### 6.1.5 Changing Screens;

- Before making any maintenance and cleaning, make sure all power is shut off.
  - a. Lock out/tag out all power supply.
  - b. Make sure all moving parts have stopped moving.
  - c. Open the operation doors.
  - d. Release the screen carriage.
  - e. Lower the screen carriage.
  - f. Lift the screen out.
  - g. Inspect each screen that is being removed for flaws and potential hazards.
  - h. Insert new screens.
  - i. Lift screen carriage and lock screen tighteners in place.
  - j. Close the operation doors.

### **Figure7 Structure of Changing Screen**

#### 6.2 Hammers

Hammers strike and force the material through the screen and must be checked periodically for wear.



6.2.1 Hammers wear in a certain manner and will deliver peak performance to a certain point. In order to maintain the optimum capacity of the mill, hammers should be checked regularly for wear.

(A) REGULAR HAMMER WEAR

B) EXTENSIVE WEAR

FIG.8 HAMMER WEAR

The motor rotation must be changed when one end of hammer has become rounded, when another end round off, the hammer loses its ability of grinding. This can cut the hammermill capacity by more than 30%, and also increases screen and pin wear. At this moment, hammers must be replaced.

NOTICE: For those mills being run with double punched hammers it is far more critical to watch hammer wear very closely and not to wear the hammer end extensively. End wear with too little steel left around the end of pin hole will dangerously weaken the hammer's ability to be safely operated. For continuous operations, ZhongTian recommends only single punched hammers to be used.

## 6.2.2 Changing Hammers

- a. Lock out/tag out all power supply.
- b. When removing and installing hammers, change only one pin at a time and ensure that the hammers are put back in the correct position to prevent them from striking one-another and to keep the mill from having severe vibrations.
  - ZhongTian will assume no responsibility for damages caused by mill vibration when foreign parts are used and hammers are incorrectly placed.
  - When replacing only the worn hammers (not all hammers) make

- sue you replace the hammers that are on the opposite pin.
- c. Remove screens according to the screen removal instructions.
  - d. Loosen the allen screws in the lock collars that are on the hammer pin.
  - e. Open the pin flap on the ends of the mill to slide the hammer pin out.
  - f. After removing hammers ( one pin at a time) inspect the hammer pins, wearproof plates, spacers, lock collars and other internal hammermill components. Replace these parts if a sign of wear is present.
  - g. Replace hammers, spacers, lock collars and hammer pins in the same order they were taken out.

NOTICE: Always keep an extra set of hammers on hand

### 6.3 Fine and Coarse Grinding

ZhongTian's precision rotor is drilled to accept a four-row or eight-row hammer pattern. These patterns may be set for coarse or fine grinding. The one set of mounting holes, labeled, hold the hammers close to the screen for fine grinding. When the hammers are mounted in the other set of mounting holes, labeled, they are held farther from the screen for coarse grinding. The hammermill hole design also allows the use of multi-row hammer patterns for applications of your finer particles. Contact ZhongTian for the correct positions of your hammers.

6.4 Feeding deflection plates, wearproof plate, wearproof ring, wearproof liner and regrinding chamber are all the parts which contact the material in the grinding chamber. If worn, they need overhaul and replacing.

## 7. Troubleshooting

### 7.1 Hammermill Vibration

After installing a new set of hammers your hammermill develops a vibration.

- a. Recheck the hammers in the mill to see if you have installed them correctly with no more than 3mm clearance between spacers.
- b. Do the opposing pins pins match in both placement, position and size of hammers and spacers?
- c. Did you use the approved ZhongTian hammers designed for your mill?
- d. If the above steps do not correct the problem is the hammers that had been installed. The rotor emptied of its parts.

If the rotor runs smooth, the problem is the hammers that had been



installed. The rotor weight balance is not evenly distributed on the rotor. Contact your supplier.

You have detected a vibration when running the mill without the parts in the rotor, and vibration continues.

- a. Disconnect the coupling and run just the motor to see if the problem lies there.
  - b. Inspect the coupling and pay particular attention to the coupling flange halves to see if they are securely on the hubs.
  - c. Inspect the rotor and check plates for wear or damage.
  - d. After following the above steps contact ZhongTian for further information and help if the problems are not solved yet.
- Many vibration problems over the years are traced to hammermill owners that install foreign parts. Very few independent suppliers take the balancing care, or use the quality materials that ZhongTian uses.

Other miscellaneous vibrations that cause in mills:

- a. Locked hammers. In some patterns occasionally one hammer may become locked behind another, or a tight pattern fit may prevent a hammer (or hammers) from fully swinging out in operation. Check to be sure all hammers are free swing.
- b. Inadequate vibration damper pad (ZhongTian vibration damper pad) will aid in lower noise and vibration free operation.
- c. If vibration should set in and you have not changed hammers for some time, check the hammers first----it is very likely that you damaged a hammer or hammers.

## 7.2 Bearing Heating

7.2.1 The number one cause of bearing heating is over lubrication.

- a. Check lube levels which should be only one third to one half full in the lower bearing housing.
- b. Are you using an approved grease? ( We recommend HaiLing brand 2# Liradical grease which is manufactured under the supervision of ZhongTian)

\*NOTICE: Bearings should be given 80g of grease at intervals of 40 hours of operation. After 1800 hours of operation the bearing housing caps should be removed and all old grease should be replaced. When

replacing with fresh grease pack the area around the rollers and races, and fill the bottom housing 1/3-1/2, do not overfill the housings.

#### 7.2.2 Only one pillow block bearing should be locked.

Only the bearing next to the coupling is the locked unit. Either one can be locked, but never lock both.

#### 7.2.3 If you have changed bearings recently check

- a. Do you have ZhongTian approved SKF bearings or Japan's NSK bearings?
- b. If all the bearings internal tolerances are checked, is your power train alignment correct?
- c. ZhongTian Winner(Winning) hammermill bearings and motor mounts are shimmed into place at the factory. Failure to maintain these shimmed levels could result in problems at the mill bearings, coupling or motor.
- d. Bearing noise normally means bearing failure is just around the corner. You should look for the problem.

#### 7.3 Uneven Screen And Hammer Wear

- a. Check to make sure you have a ZhongTian approved hammer pattern in the hammermill.
- b. In order to gain uniform wear on screens and hammers, uniform full width infeed is required. If gravity feed is being used----does your control infeed slide gate uniformly distribute the material across the inlet?

NOTICE: Rotary feeders, magnetic belt feeder and vibrating feeders, correctly sized, do not have this problem as their design fully distributes the infeed.

#### 7.4 Screen Plugging

- A. Check your hammers for excessive wear.
- B. Screen is too thick.
- C. ZhongTian Winner(Winning) hammermill has the ability to mount its hammer pattern in a coarse grind position or in a fine grind position. Products containing high levels of fat, oil or moisture and

products with high fiber contents may require that your hammer pattern be mounted in the fine position to avoid screen plugging.

D. There are a number of material ground in hammermills that require air to pull the product through. Lack of air and poorly designed air systems can cause screen plugging.

## 7.5 Getting Whole Product

Traces of notable amounts of whole product coming through with ground product can only happen when there is a break or fitting problem around the grinding chamber.

- a. Check screens for break or puncture that may be letting whole product through.
- b. Check screen fit.
  - b1) Around the tear drop liners.
  - b2) Under the regrinding chamber.
  - b3) At the top outside of the mill inlet where the screen carriage lock in.

Under certain conditions product can build up from small leaks forcing the screen and carriage out enough to allow whole product to get through.

## 7.6 Metal Contact Noise

If there is metal contact noise, stop hammermill immediately. When all rotation has ceased and all power supply is locked out.

- a. Drop screen carriage and remove screens. Check to see if there is any place where screens contact hammers.
- b. Turn the rotor by hand slowly to see if hammers contact the regrinding chamber (channel support) under the grinding chamber.
- c. Check bearing housing to see if the locked bearing let go allowing the mill rotor shaft to move back and forth.
- d. Carefully inspect the rotor itself to see if there are any broken parts.

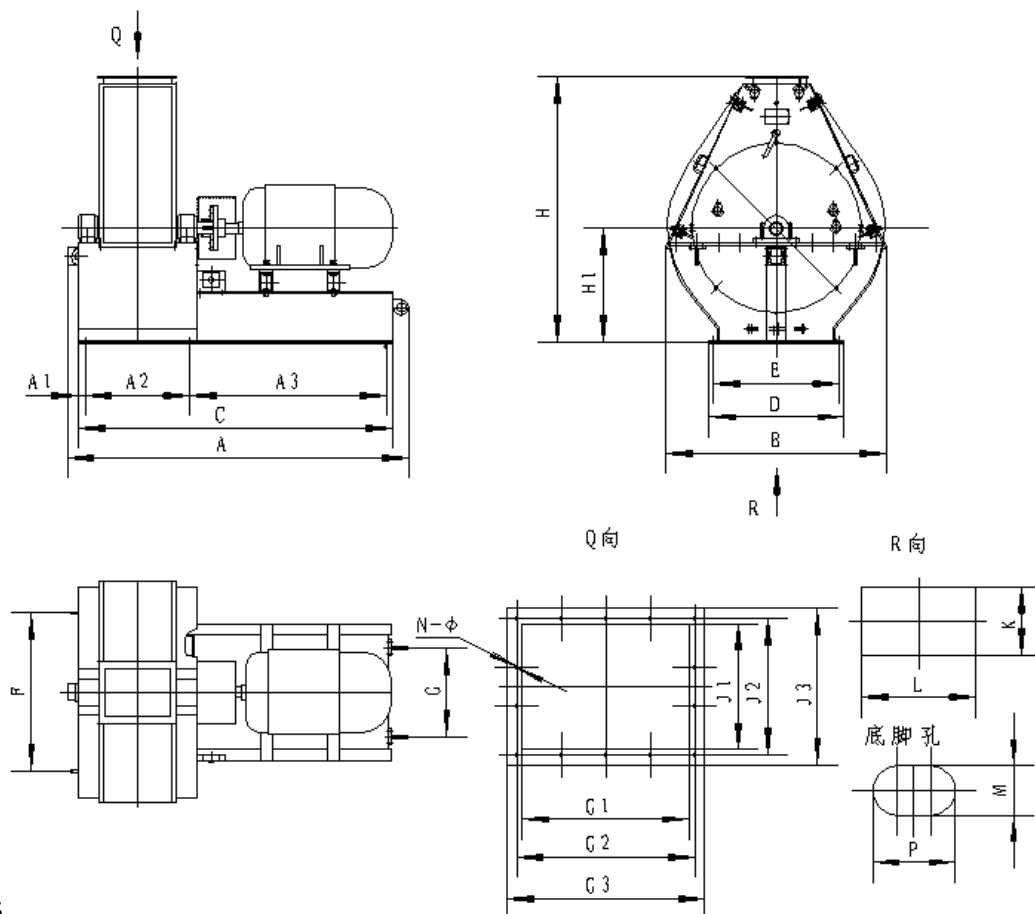
## 8. Transportation And Storage

8.1 The hammermill has four lift eyes on two sides of base for the use of lifting. Do not put moving pipe under the mill base to give the mill a plane

movement.

8.2 When the hammermill will be stored for a long time, it should be put in a ventilated, dry and cool place with dampproof facilities. The exposed surface without any paint should be coated with antirusting oil.

## 9.Vulnerable

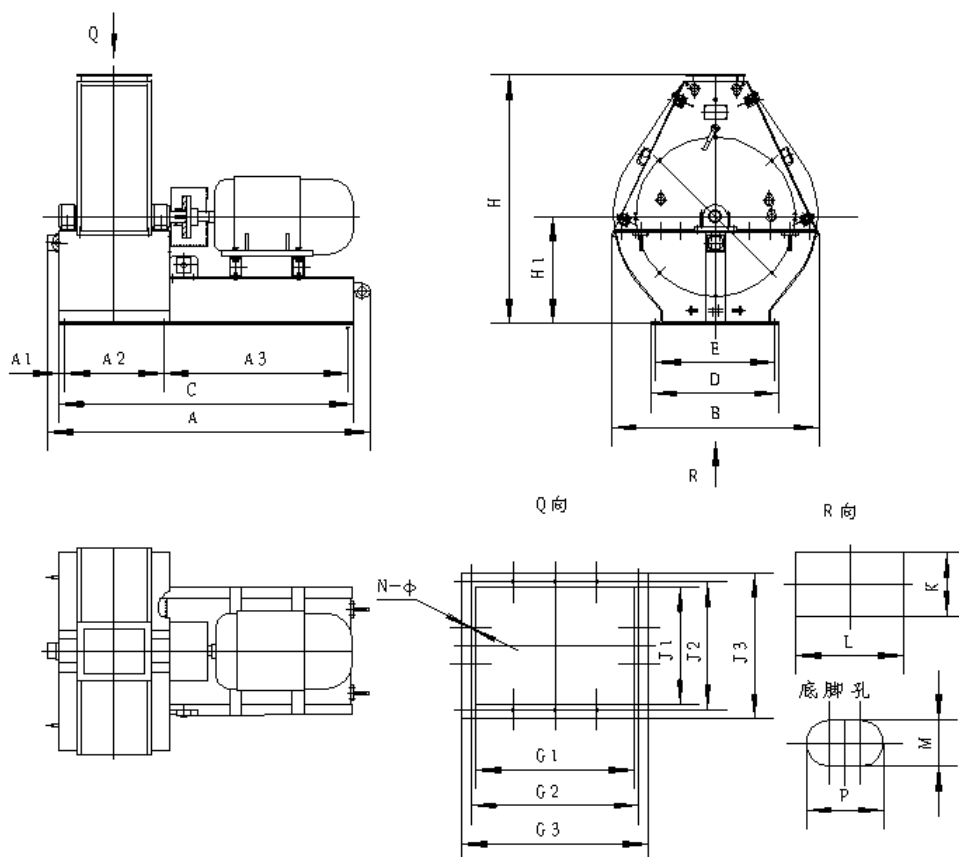


Parts

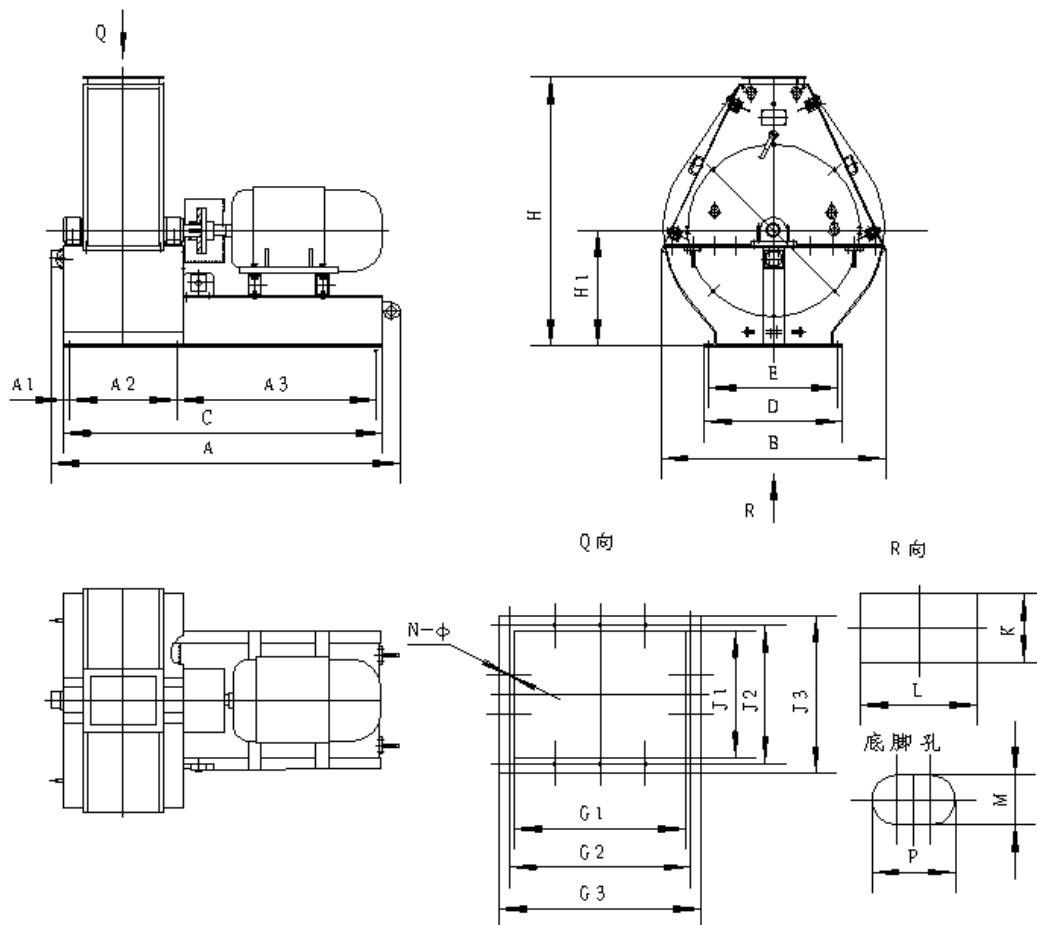
Serial Number	Model	Name	Quantity	Installing Place	
1	SFSP112*25C	Hammers.3-1	54	Rotor's Pins	
	SFSP112*30C		64		
	SFSP112*38C		90		
	SFSP112*50C		108		
	SFSP112*60C		138		
	SFSP112*75C		180		
	SFSP112*100C		216		
	SFSP138*25E		54		
	SFSP138*30E		64		
	SFSP138*38E		90		
	SFSP138*50E		108		
	SFSP138*60E		136		
	SFSP138*75E		180		
	SFSP138*100E		216		
2	SFSP112*25C	Pin.3-4	8	Rotor's Pins	
	SFSP112*30C	Pin.3-5			
	SFSP112*38C				
	SFSP112*50C		16		
	SFSP112*60C				
	SFSP112*75C	8			
	SFSP112*100C				
	SFSP138*25E		Pin.3-5		
	SFSP138*30E				
	SFSP138*38E				
	SFSP138*50E				
	SFSP138*60E				
	SFSP138*75E				
	SFSP138*100E				
3	SFSP112*25C	Screen.2-15	2	Round The Rotor	
	SFSP112*30C	Screen-4			
	SFSP112*38C				
	SFSP112*50C				
	SFSP112*60C				
	SFSP112*75C				
	SFSP112*100C	Screen.2-7	4		
	SFSP138*25E	Screen.2-1	2		
	SFSP138*30E				
	SFSP138*38E				
	SFSP138*50E				
	SFSP138*60E				
	SFSP138*75E				
	SFSP138*100E				
4	SFSP Series	Bearing with Base	2	Main Shaft	20

Model \ Spec.	A	A1	A2	A3	B	C	D	E	F					
SFSP138×25E	2138	50	601	1175	1675	1926	1028	958	1200					
SFSP138×30E	2463	50	666	1485	1675	2251	1028	958	1200					
SFSP138×38E	2595	50	795	1490	1675	2380	1028	958	1200					
SFSP138×50E	2692	50	892	1587	1675	2477	1028	958	1200					
SFSP138×60E	2865	50	1049	1485	1675	2634	1028	958	1200					
SFSP138×75E	3046	50	1299	1485	1675	2634	1028	958	1200					
SFSP138×100E	3240	50	1493	1679	1675	2828	1028	958	1200					
Model \ Spec.	G1	G2	G3	H	H1	J1	J2	J3	N	φ	L	K	M	P
SFSP138×25E	297	346	406	2013	866	342	413.2	473.2	14	11	864	326	15	25
SFSP138×30E	362	420	470	2013	866	342	413.2	473.2	14	11	864	366	15	25
SFSP138×38E	488	540	600	2013	866	342	413.2	473.2	14	11	864	495	15	25
SFSP138×50E	588	660	700	2013	866	342	413.2	473.2	14	11	864	592	15	25
SFSP138×60E	741	792	854	2019	880	342	413.2	473.2	14	11	864	749	15	25
SFSP138×75E	993	1064	1121	2019	880	342	413.2	473.2	14	11	864	994	15	25
SFSP138×100E	1187	1234	1294	2019	880	342	413.2	473.2	14	11	864	1188	15	25

## SFSP112×25(30;38;50;60;75;100)D Hammer Mill Sample dwg.



# **SFSP138×25(30;38;50;60;75;100)D Hammer Mill Sample dwg.**



### 1. DOCUMENTS ATTACHED

Item No.	Description	Unit	Quantity	Remark
1	User's Manual	Copy	1	
2	Quality Certificate	Copy	1	
3	Packing List	Copy	1	
4	User's Comment on this product's quality	Copy	1	

### 2.PARTS ATTACHED

Item No.	Name	Standard	Unit	Quantity	Remark
1	Hammermill		Set	1	
2	Damping Pillow		Piece	4	
3					

Guarantee: We guarantee the equipment for one year after saling date (except the wear parts). In case any quality shortage and damage are found out, we will supply free repair. If not quality shortage and damage, we will supply parts and service that are not cost-free.





## 江苏中天农牧机械有限公司

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