

CF 420P

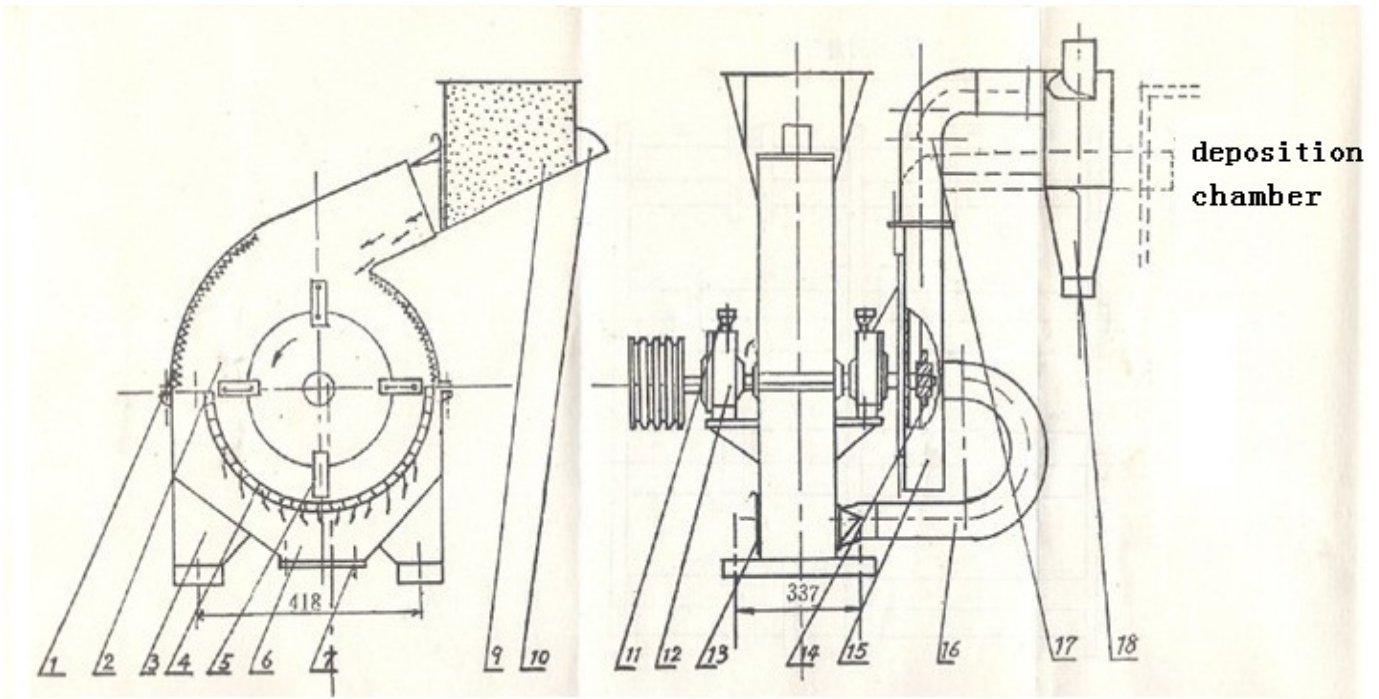
HAMMER MILL

INSTRUCTION MANUAL

Model No.	Power (KW)	Output (kg/h)	Packing (cm)	NW/GW (kg)
CF420P	More than 22hp	500-1500	128*86*107	260/320



1. Knowing your machine



- | | |
|------------------|-----------------------------------|
| 1. Toothed plate | 11. Oil cup |
| 2. Upper box | 12. Bearing block |
| 3. Lower box | 13. ventilation door |
| 4. Hammer sheet | 14. Impeller |
| 5. Sieve | 15. Fan cabinet |
| 6. Lower cavity | 16. Suction tubes |
| 7. Bottom door | 17. Output tube |
| 9. Feed hopper | 18. Separator centrifuge (outlet) |

Functioning

The hammer mill is fixed with an engine with a power of RP-driven all kinds of different power. Its working principle is: after the raw materials were put into crushing chamber, the high-speed operated hammer sheets will impact the raw materials over and over again, then the raw materials will be crushed into pre-set size step-by-step. The sieve have the following size: 1.5mm, 2mm, 4mm and 6mm. Then the crushed materials will leak out from the sieve. The draught fan will convey the leaked materials into separator centrifuge, finally, the powder will be discharged down below, and the air will be discharged upper.

1. Commissioning

Connection and location of the hammer mill

WARNING: Disconnect all power supply before any maintenance.

1.1 Connection

For the operation of the hammer mill. Please connect the shaft with the tractor and hammer mill. 3-point as the pictures show.

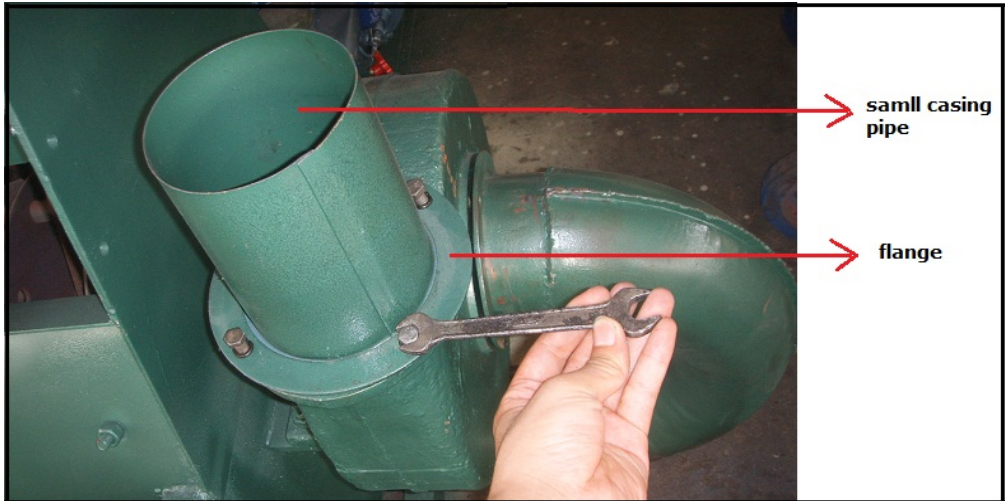




Check and tighten all screws as before turn on the tractor . Failure to observe this will result in damage to the control unit
Make sure all these setting must be operated by a qualified person.

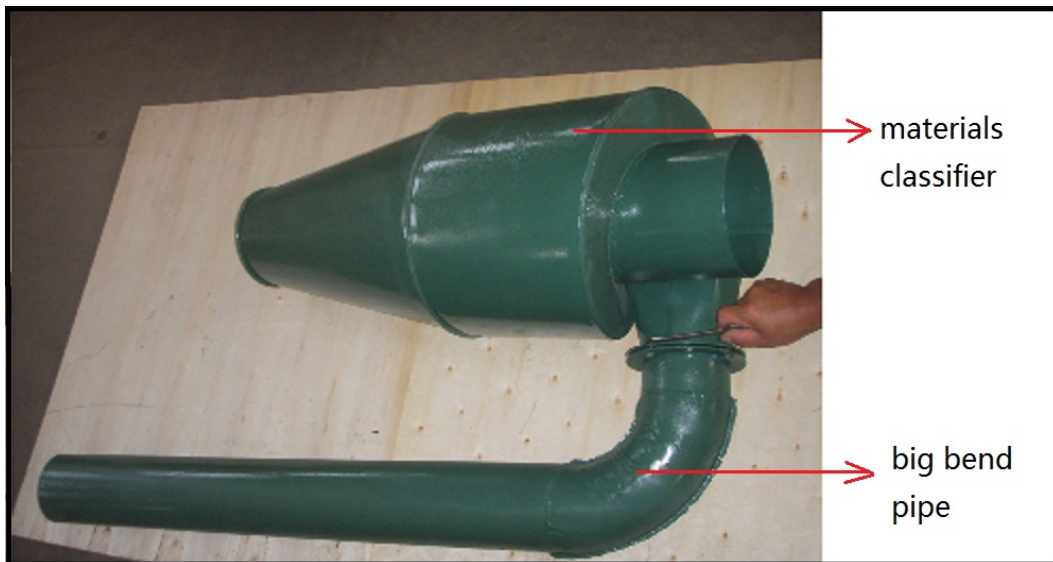
1.2 Install the cyclone

1. Install the small casing pipe with flange



2. Install the big bend pipe

Connect the materials classifier and big bend pipe together firstly.



3. At last cover the big bend pipe on the small casing pipe.



1.3 Location

Place the machine under a solid, safe and well-dry location. Keep the machine away from unauthorized person

Do not operate the machine under the temperature of 10 °C.

Before use make sure all bolts and nuts are securely tightened.

2. Operation of the hammer mill

2.1 WARNING

The following safety rules must be reserved during operation of the hammer mill:

1. Always wear appropriate personal protection equipment. Wear hearing protection, eye protection, non-slip shoes, and tighten clothing. Never operate the machine with long hair.
2. Do not mix very hard objects with the raw materials, for example: metals, stones and so on..
3. Be sure not to get the machine or the connections in contact with water.
4. Be away from open fire during operation.

1. Check whether all bolts and screws are properly secured.

2.2 CRUSHING THE RAW MATERIALS

1. Check whether the raw materials' size is suitable. Please note that the max diameter of the raw materials is 50mm. Be sure not mix the metal and stone in it in order not to damage the machine
2. Bind a big cloth bag as container on the end of the cyclone to collect crushed materials.



3. Put a little source material into the feed hopper. Be sure not to fill too much material at once, as the machine can be clogged.

4. Do not stop the machine during pellets pressing operation (except for emergency), otherwise the machine will be clogged for re-starting.
5. Stop the machine by pressing the stop button.



wood blocks



grass hay



coconut shell



cornstalk



waste paper

3. Malfunctions and Maintenance

Troubles	Reasons	Methods
The machine vibrates seriously with loud noises	1. The machine isn't installed firmly on the ground or the bolt is loose.	Install it firmly
	2. The main shaft is bent.	Mend or replace the shaft
	3. The rotors aren't in the state of balance. The weight of the symmetry hammer is not same.	Adjust them in balance.
	4. The flake-hammers aren't in correct order	Adjust the order correctly
	5. The bearing is born.	Clean and replace the bearings.
The productivity is low	1. The flake-hammers are worn seriously.	Turn over them and fix again, or replace them.
	2. The tooth-like plate is worn seriously	Replace it.
	3. The raw feed is too big.	Cut it to small pcs.
The temperature of bearings is over hot.	1. The raw feed is too wet	Dry them firstly
	2. The flow of the raw feed is too fast.	Control the flow properly
	3. The gaps are not correct between the bearings and bearing bases.	Make them correctly
	4. There is dirt in the bearings	Clean by petrol.
	5. The amount of the lubricating oil is not suitable.	Control the oil properly
	6. speed is too high	Use with the suitable motor and pulley
	7. the bearing is worn	Replace bearing

The feed is out of wind inlet.	1. The feed flow is too fast or not equal	Control feeding speed
	2.The voltage and speed of motor is low	Regulate the speed of motor or feeding speed
	3.The transmit pipe is jammed	Dredge the pipe
	4.the wind inlet is too big or small	Regulate the wind inlet

ATTENTION!

Be away from moving parts. Failure to do this will result in serious injury. Disconnect the power supply before maintenance or repair.

Regularly check and re-tighten the screws and nut due to vibration.

4. GREASE

Be lubricated after each use or after 8 hours operation.

1. Lubricate the main shaft.



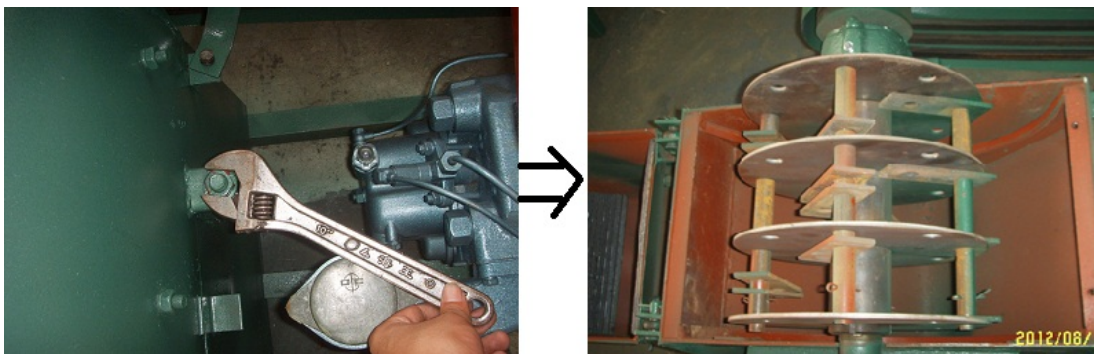
2. Lubricate the pulley and fan.



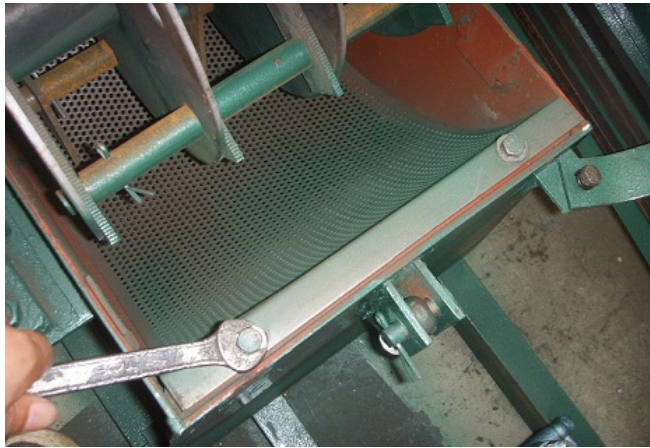
5. To replace the hammer sheets and sieve

- 5.1 Replace the sieve.

Open the machine, then you can see the hammer sheets and sieve clearly.

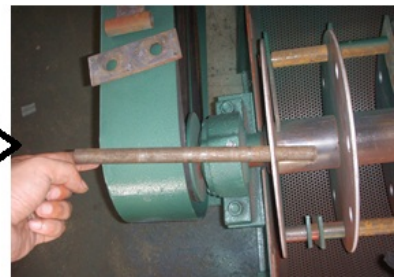


Remove the sieve, the replace a new one.



5.2 Replace the hammer sheets

Take down the old hammer sheets.



Install the new hammer sheets according to the original order.

They are 4 hammer sheets on every shaft. And they are 4 shafts totally.



Add gear oil into gear box



For the new machine ,50-60 hours Pour out all the gear oil , add new gear oil into the machine, then per 200-300 hours add gear oil into 1/2 of the gear box.

Gear oil type must be as Heavy duty gear oil GL-5 , viscosity 85W-90