



**DALIANG**

**9FQ Series**

**Hammer blade grinding machine**

# **User's Manual**



**丹阳市大粮机械厂**

**Danyang Daliang Machinery Factory**

## **PART1: product features**

**9FQ Series Hammer blade grinding machine: Performance and a high degree of automation, low energy consumption. In order to enhance the safety and reliability of the equipment. The equipment shell castings were making body panels welded structure and design of the two pulleys. electric motors and diesel engines .To meet the different needs of users.**

## **PART2:Main Parameter**

<b>MODEL</b>	<b>4020</b>	<b>4025</b>	<b>5025</b>
<b>parameter</b>			
<b>Dynamic(KW)</b>	<b>7.5</b>	<b>11</b>	<b>15~18.5</b>
<b>Spindle speed(Y/min)</b>	<b>3300~3770</b>	<b>3300~3770</b>	<b>3300</b>
<b>rotor diameter(mm)</b>	<b>400</b>	<b>400</b>	<b>500</b>
<b>Hammer volume</b>	<b>12</b>	<b>16</b>	<b>24</b>
<b>Yield(Kg/h)</b>	<b>750~1100</b>	<b>1100</b>	<b>1500</b>
<b>expected power consumption/tons(Kw.h/t)</b>	<b>≤9</b>		
<b>Noise(Db(A))</b>	<b>≤93</b>		
<b>Dust(mg/m<sup>3</sup>)</b>	<b>≤10</b>		
<b>Size(mm<sup>3</sup>)</b>	<b>950×850× 810</b>	<b>1050×860× 980</b>	<b>1100×870× 1450</b>
<b>Weight(Kg)</b>	<b>80</b>	<b>100</b>	<b>120</b>

## **PART3: Application**

**9FQ Series Hammer blade grinding machine is to feed mill can crush pellets, blocks and strips Stem fodder and other materials can also be used for refining. Suitable chemicals, wood, wine, feed mill, the self-employed, the use of township enterprises and small and medium-sized feed market.**

## **PART4:Main structure and working parts**

**The main components : Hopper, body, rotor disk, siever sheet, fans, pipeline, Hammer blade, tooth plate etc.**

**Major components for smash: siever sheet, Hammer blade, tooth plate. Feed be smashed by Hammers of high-speed operation in crushing room.**

## **PART5: install and Ready to use**

- 1. The equipment must be firmly installed by bolts fixed in concrete foundations.**
- 2. Main shafts of grinder and motor must be parallel. Belt to be adjusted due to the tightness**
- 3. In areas with no electricity. Diesel Engine and Tractor can be used.**
- 4. Should install a galvanometer, galvanometer should be installed in areas prone to look. Ensure that equipment operating under the nominal current. Prevent overload**
- 5. before operation ,Should check any loosening of the components. Not a foreign body into the equipment. Does flexible to rotating wheel by hand. Whether it meets the requirements motor rotation direction**
- 6. After the inspection, complied with the request. Start running until reaching normal speed. Feeding begins production.**
- 7. In production, not allowed to stand around the belt. Attention to production safety.**

## **PART6: Operating regulations**

- 1. No-load started to avoid damage to equipment.**
- 2. Uniform feed, and if overloading should immediately stop feeding.**
- 3. Belt Tightness appropriate, and if not flexible rotation and abnormal voice should immediately stop to check.**
- 4. When the bags reached one third of the powder, the powder should be removed, and often jitter air bag to reduce dust.**
- 5. Before stop operation stop feeding, When materials are empty, then turn off.**

## **PART7: Use and maintenance**

- 1. Operate strictly in accordance with requirements.**
- 2. Various components periodic lubrication, Fill the Lubricant oil and grease, Bearing every three months Refuel lubricant.**
- 3 Fragile pieces of regular check discovered that the damage immediately, replacing.**

## **PART7: Trouble Shooting**

<b>trouble</b>	<b>Diagnosis</b>	<b>disposal</b>
----------------	------------------	-----------------

<b>Motor weakness and motor overheating</b>	<b>1)Two-phase operation.</b> <b>2)motor winding short-circuit.</b> <b>3)long-term operation of overloading.</b>	<b>1) Maintain a three-phase</b> <b>2) maintenance motor</b> <b>3) work with rated load</b>
<b>Metal percussion sound in grinding room</b>	<b>1) hard metal objects in grinding room</b> <b>2) Parts damage and fell down</b> <b>3)too small distance between hammer blades and sieve or sieve loosen</b>	<b>1)stop to take out hard object</b> <b>2)stop to check,and maintenance or replace sieve .</b>
<b>Belt dripping</b>	<b>1)the belt wheel isn't parallel with the machine</b> <b>2)belt loosing</b>	<b>1)regulate to be parallel</b> <b>2)tighten</b>
<b>Significantly lower productivity</b>	<b>1) material isn't dry</b> <b>2) Motor weakness</b> <b>3) Hammer severe wear</b>	<b>1)dry material</b> <b>2)repair motor</b> <b>3)replace or turn around Hammer blade</b>
<b>A big noise and vibration</b>	<b>1)No solid base</b> <b>2)Anchor bolt loose</b> <b>3)Too much weight unbalance between the two groups hammer counterparts</b> <b>4) Other parts of the rotor unbalance</b> <b>5)main shaft bending or deformation</b> <b>6) Bearing damage</b>	<b>1)Strengthening base</b> <b>2) the anchor bolt tightening</b> <b>3) adjusting Hammer weight</b> <b>4)check rotor and adjustment</b> <b>5)directly or replace</b> <b>6) replace bearing</b>
<b>Machine works overload or motor is overhead</b>	<b>1) the motor power is too low</b>	<b>1) replace with high power motor</b>

with buzzing	2) raw material isn't dry 3) Power voltage low or unstable 4) Too much feeding	2) dry raw material 3) stop working 4) decrease paddy flow
--------------	--	--

## **PART8: Vulnerable parts**

<b>number</b>	<b>name</b>	<b>material</b>	<b>Numbers of each</b>
<b>1</b>	<b>Front and back radula</b>	<b>white iron</b>	<b>Front:2 back:1</b>
<b>2</b>	<b>Hammer blade</b>	<b>65Mn or solder tungsten</b>	<b>12 or 16</b>
<b>3</b>	<b>Sieve</b>	<b>B3</b>	<b>1</b>
<b>4</b>	<b>Pin shaft</b>	<b>45</b>	<b>4</b>
<b>5</b>	<b>Wheel of blower</b>	<b>A3</b>	<b>1</b>

## **PART9: Contact us**

**Danyang Daliang Machinery factory**

**Danyang JiangSU China**

[www.dlmech.cn](http://www.dlmech.cn)

[sales@dlmech.cn](mailto:sales@dlmech.cn)