

KL Series Rigid Granular Fodder Machine

1. Introduction of the product:

The KL serial equipment for fodder processing, are indispensable for scientific feeding by making the fullest use of natural resources. It is especially applicable to the masters of aquaculture, fodder-process factory and individual specialization to process the fodder for rabbits, chicken, hogs, cattle, sheep, fish, shrimp and so on.

It process the powder material to be granular fodder characterized with good rigidity, perfect smoothness, long shelf life and standard degree of moistness. The fodder will be nearly cooked during the processing which can greatly increase the proportion of take-in nutrition. And reduce the zymolysis time of fertilizers.

It adopts the template processing by updated technology. The template and press roller are made of high quality alloy steel, which has 3-4 times life span than common material. And the machine features operating easily and stably, low noise and good performance.

2. Function mechanism:

The KL serial granular fodder-processing machine can be powered by both diesel engine and E-motor. We adopt the new design of direct connection of motor shaft and the main shaft that overcome the loose defect of belt connecting as long time using.

When the fodder is added in, the template, pressing roller and fodder will be heated to 60-80 °C by the friction among them. After being pressed through the template, the fodder will be thrown from the machine in a state of granular. You can choose the size of the granules by using different template with different size of holes in it.

A diesel engine is another choice to drive the machine, together with the clutch and accelerating-decelerating device to change its speed. It is still for the belt to drive the main shaft. The machine can run smoothly and with few noises.

3. Operating and maintaining:

Maintaining should be considered during the every process of operating.

When you newly get it, or every time before opening, never skip the step of an overall check to tighten any possible loose bolt to ensure the machine runs in security.

Set the running direction according to the direction mark on the machine every time before opening. Then loosen the two bolts in both sides of the cover (that is, the pressing roller) to start the machine in a pressure-free condition. For a new machine, check it to see if it can run smoothly. Every time after starting, wait for 2-3 minutes to make sure the machine can function normally. If it can, add the fodder.

After a new machine being set to completely normal condition, you can add 5kgs bran or something like that and 300-400g vegetable oil, then mix them together. While the machine runs smoothly, put a handful of well-mixed fodder, screw the "adjusting bolts" to make the

(E-motor power. Direct shaft connection driven)	Output	500-600 kg/h
KL300B.C (E-motor power. Direct shaft connection driven)	E-motor Output	22 kw 700-800 kg/h
KL360 (E-motor power. Direct shaft connection driven)	E-motor Output	22 kw 800-900 kg/h
KL400 (E-motor power. Direct shaft connection driven)	E-motor Output	30 kw 900-1100 kg/h

6. Common break down and method to settle

Troubles	Possible reasons	Method to settle
The pellets can't be discharged	1. The new machine hasn't been abraded by oily material or is abraded insufficiently. 2. The fodder material has too much moisture.	1. Clean the current material and add the oily material to abrade the new machine as per the process of 1.3 2. Add some dry material to adjust the moisture.
The motor hãlt suddenly	1. The voltage is over low. 2. The pressure between the pressing roller and template is too big.	1. Avoid the electric using peak. 2. Loose the adjusting bolts.
The output pellets is soft or be powdery.	1. The template is worn.	1. Adding a little water in to the material. 2. Replace the template.
The pressing roller is damaged.	1. No material between the pressing roller and template. 2. There are some hard stuff within the material.	1. Add the material before running or mix and input the material by wood stick. 2. Prevent any hard impurity of iron, stone or sands within the material.

7. After service

From the date of receipt products, the clients have the right to enjoy free repairing for any quality problems against industrial defect within six months except is due to improper operating, users will pay the charge of maintaining, the replaced parts and relative charges.

pressing roller parallel to the template which are keeping pressing against each other. After granular fodder is discharged from between the pressing roller and the template normally, continue adding oily material handful by handful and this processing courses need to be repeated 3-5 times until the template is well abraded. Then start to use the normal powder material. (Those output fodder made by oily material couldn't be fed to any animals and it is not required to do the same abrading course for new machine any more). However, it is unnecessary to clean the template after every course, if only it is well lubricated and can discharge fodder smoothly.

The length of output fodder can be adjusted by the cutter which near to the output gate.

The output fodder will be high temperature, so please set them at ventilated place to make them cooling to the room temperature, then pack and stock them.

The temperature of the axle will increase as the template being heated during the processing because of friction. So after the machine has been running continuously for 200 hours, disassemble and check the axle to see if the pyro-lubricant is enough. If not, clean the axle and add lubricant immediately to prevent the axle being dried and worn off by friction.

KL360, KL400 Series Rigid Granular Fodder Machine

Check the rap of rollers: Open the casing, adjusting the rap at 0-0.5mm between nut that this nut below on main shaft and horizontal axis. Then tighten the upper nut that this nut on main shaft. Recover the casing, put the lever, then pressing the screw tighten, and put the hopper.

Start working: Close the hopper, start motor, open the hopper to feeding; Adjusting the feeding speed, observe the electrical meter to reach rated electrical current. Fix the adjusting handle to working. Pls pay attention on speed of feeding, because feeding speed too fast, the charge is too big.

Wearin Period of new machine: Take 10-20 kg mixed power, add 10% edible oil, and mix them homogeneous. Take the power into hopper, and working according Step 2. The power after mix oil need to pressing 3-5 times, then add the dried power with slowly. If no pellet coming, the user need clear the die and make the hole clearly by steel nail. After clearing, pressing again until to pellet coming.

Adjusting the length of pellet: Adjusting the distance of cutter.

To models empowered by diesel engine, its gearbox must be checked every six month to ensure that it is well lubricated. Lubricant must be added or replaced in time.

4. Rules for safe operating:

Before operating, the operator must familiarize himself to the structure, function and the operating steps. New machine should be abraded by oily material as per the process of 1.3.

Check the machine and the fodder for processing to confirm:

If there is any electricity leak in any part of the machine and every part works in safety.

If there is any loose bolt or other parts to make sure the machine runs normally.

If the fodder for processing is up to the standard? The humidity for the powder fodder should be 3-10%. The fodder should be clean, well mixed and without any hard stuff like stone, iron and so one to prevent any damage to machine.

After starting, let the machine runs 1-2 minute with a little fodder in it. Check the running direction and noise. And leave a little fodder in it after machine is off to prevent abrading

between the pressing roller and template

If the output pellets is broken or loosen, please reduce the rate of coarse material under 50% or add 2-4% water in the mixed material.

1.1 It is normal while the machine is heated up to 70 °C as continue working.

1.2 The machine be driven by diesel engine should be declutch before start the diesel engine, and connect it slowly after start diesel engine.

1.3 Warning! Never use your hands or other hard stuff to clean the template or pressing roller, which is quite possible, the machine or yourself be damaged in this way. If it's possible, the wood stick can be used to help feeding.

1.4 Please loosen the "adjusting bolts" after finish work.

1.5 The operator should never leave his or her position until the processing completed.

Keep one eye on the machine for any abnormal noise. Stop the machine immediately when a problem occurs. Do troubleshoot then start it again.

5. Technique data

KL120 (E-motor power. Belt driven)	E-motor Output	2.2 kw 220v Single phase (3kw)
KL120A (Diesel engine power)	Diesel engine Output	75-100 kg/h 6-8 hp
KL120B (E-motor power. Direct shaft connection driven)	E-motor Output	100-130 kg/h 2.2 kw 220v Single phase (3kw)
KL150A (Diesel engine power)	Diesel engine Output	75-100 kg/h 8-10 hp 120-150 kg/h
KL150B (E-motor power. Direct shaft connection driven)	E-motor Output	4 kw 120-150 kg/h
KL200A (Diesel engine power)	Diesel engine Output	12-15 hp 250-350 kg/h
KL200B, C, F (E-motor power. Direct shaft connection driven)	E-motor Output	7.5 kw 200-300 kg/h
KL230A (Diesel engine power)	Diesel engine Output	18-22 hp 300-400 kg/h
KL230B, C (E-motor power. Direct shaft connection driven)	E-motor Output	11 kw 300-400 kg/h
KL260B, C, F	E-motor	15 kw

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