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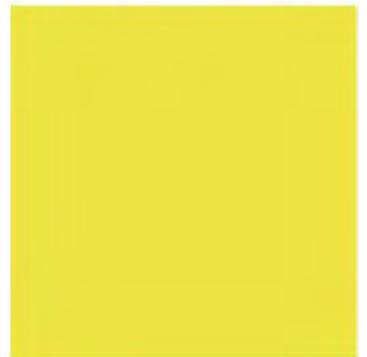
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**PROFESSIONAL PRODUCTION
PELLET MACHINERY**



Electric Flat Die Pellet Mill

Model: FDF

Capacity: 80-1200kg/h

Certification: CE & SGS & ISO

Application: It is widely used in home and small scale farms to make animal feed pellets.



Overview

With people’s increasing attention to environmental protection, many countries have made policy to advocate renewable energy and punish fuel pollution. Wood pellet machine emerges as the time requires. It forms high pressure between roller and flat die and transform loose materials into hard pellets, with higher combustion efficiency. Flat die pellet mill can not only supply bio-fuel at low cost, but exempt your trouble with agriculture waste.

Usable raw materials

Electric motor pellet machine is able to process various crude-fiber materials into pellets, such as sawdust, rice husk, cotton stalk, cotton seed hull, weed, crop straws, peanut shell, corncob, household garbage, factory waste, etc.

Some of them are hard to get formed because of low adhesive rate. But a pellet machine can realize this even without any binders. It a useful equipment for timer mill, saw mill, tree farm, fuel plant, furniture manufacturer and people who need wood pellets.

Application area

Home heating and hot water supply. Wood pellets have higher combustion ratio than firewood, and they are easy to store and transport.

Industrial biomass boiler. Wood pellets can take the place of coal and used as the main fuel in industrial boiler. The adoption of biofuel can relieve the air pollution.

Power generation. wood pellets can be used in thermal power station.

Features

1. Driven by electric motor makes it more energy-saving and environmentally friendly.
2. The flat die pellet mill is made of wear-resistant material thus having a long service life
3. The pelleting process is visible, so it is convenient to solve problems in time.
4. Simple structure, small area coverage, easy operation and maintenance.
5. Low consumption, competitive price and cost saving.

- 6. Electric wood flat die pellet mill can process various kinds of raw materials into small wood pellet, such as wood chips, sawdust, bamboo chips, rice husks, straw, etc.
- 7. Less investment. simple operation, easy maintenance, high pelleting rate; Simple structure, wide applicability, cover small space, low noise.
- 8. Powder feed. no grass meal (or little) liquid can be added for granulation. Moisture same as the raw materials, more conducive to storage.
- 9. Raw materials. There are more than 20 kinds of dies, suitable to make pellets from different raw materials.

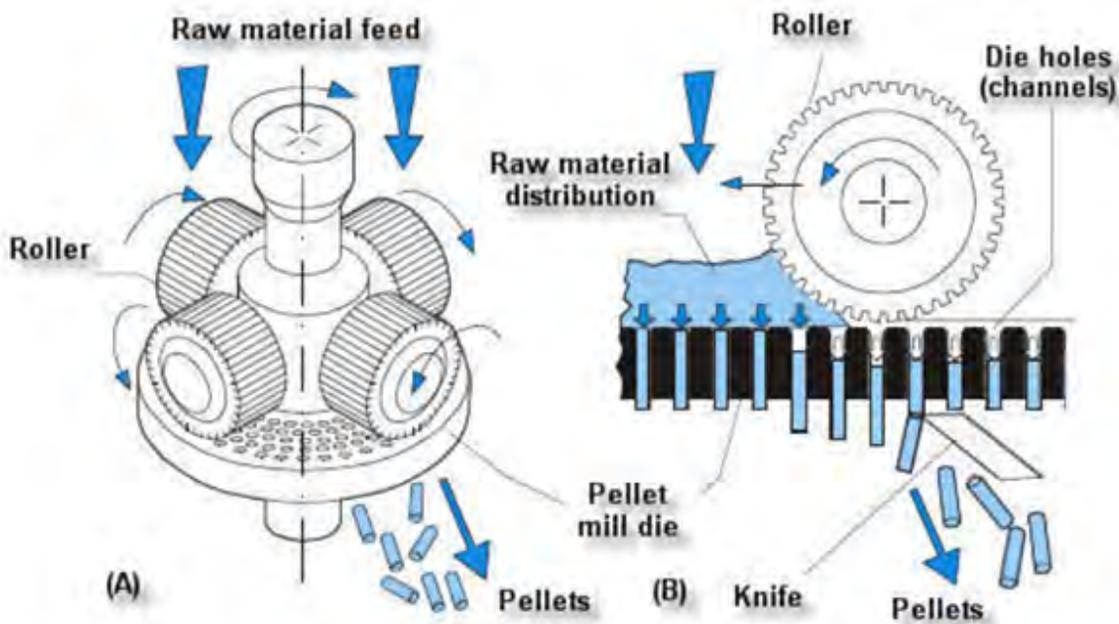


Working principle

This small-scale wood pellet mill adopts flat die structure. The main components are electric motor, gearbox, drive shaft, flat die, roller, feed hopper, slicer and outlet.

The electric motor drive the main shaft through gearbox. The main shaft drive the flat die. The roller rotate on the flat die as well as on its own axis. When you feed raw materials into the feed hopper, they fall on the flat die and get evenly distributed. When the flat die rotates, the roller continuously rotates over the raw materials, and press them into the holes on flat die. They get formed in these holes and get squeezed out. When they come out, they become solid cylinders. There is a slicer cutting them into short pellets. The pellets are sent to the outlet through the dump tray.

The density of these pellets are $1.1 \times 10^3 \text{ kg/m}^3$. The diameter is 2.5-10mm according to the hole size of flat die. You can adjust the length by changing the height of the slicer. They meet the European standard, where the length should be 5 times that of the diameter.



Structure and working principle of flat die pellet mill

Parameter

Model	Capacity (KG/H)	Power (KW)	Pellet Size (mm)	Dimensions (cm)
FDF-125A	80-100	3	Φ2.0 - Φ6.0	66*35*120
FDF-150A	90-150	4	Φ2.0 - Φ6.0	66*35*120
FDF-125B	80-100	3	Φ2.0 - Φ6.0	63*27*75
FDF-150B	90-150	4	Φ2.0 - Φ6.0	65*27*78
FDF-210	200-300	7.5	Φ2.0 - Φ6.0	85*35*91
FDF-230	350-450	11	Φ2.0 - Φ6.0	98*38*94
FDF-260	400-500	15	Φ2.0 - Φ6.0	108*42*104
FDF-300	500-700	18.5	Φ2.0 - Φ6.0	130*51*121
FDF-360	700-800	22	Φ2.0 - Φ6.0	140*56*160
FDF-400	900-1200	30	Φ2.0 - Φ6.0	150*61*180