

1. Introduction of wood pelletizer machine

Vertical ring die wood pelletizer machine is a kind of ring die pelletizer machine designed to make biomass fuel pellets, because the pelleting chamber of this machine is installed in vertical structure, so we call it vertical ring die wood pelletizer.

Raw material input from top of pelletizer machine, by gravity raw material fall into pelleting chamber directly, inside the pelleting chamber the rollers are rotating together with main shaft, while the ring die is stable. The rotating rollers and the centrifugal force from running rollers push raw material go to holes on ring die, at meantime the rollers press raw material go through holes on ring die and compress them to pellets.

This vertical ring die wood pelletizer machine have advantages to produce high quality wood pellets and other kind of biomass fuel pellets from different kind of wood material and biomass material. It can make pellets from raw material like: wood logs, timber, tree branches, wasted wood, furniture factory wood residues, wood chips, wood shavings, building templates, sawdust., wood material and sugarcane bagasse, rice husk, coconut shell, straw, stalk, corn cob., agricultural waste as well as palm timber, EFB and EFB fiber., etc biomass material

Raw material input this pelletizer machine should be match the features: size 3-5mm and moisture <15%.

If the size >5mm, usually use hammer mill to crushing them to 3-5mm, sometimes a wood chipper is needed if the raw material is too large like wood logs and timber.

If moisture higher than 15% usually use rotary drum dryer to drying them after crushing the size to 3-5mm.

Advantages of our MKLH series vertical ring die wood pelletizer machine:

- * Vertical structure, material can fall into pelleting chamber by gravity, avoid material block in feeding part, easy to feeding material
- * Benefit from the vertical structure, it is easy open the top cover for maintenance and change ring die/rollers, save time on machine maintenance.
- * When machine running, the rollers are rotating while ring die is stable, with the rollers running the centrifugal force can force material go to hole of ring die, improve feeding efficiency and pelleting efficiency
- * Our MKLH series vertical ring die wood pelletizer machine is gearbox type pelletizer machine, the gearbox is designed by our company which is

strong enough to make wood pellets, the gears and special designed structure can bring more powerful pressure compared with commonly industrial gear box, the motor is vertically installed on gearbox, so the shaft of motor can connect to gears directly and the gears transmission the main shaft of pelletizer machine, thus to bring more pressure for pelleting and improve efficiency and stability.

* Equipped with automatic lubricator, which can set interval time and grease inject time, so that to inject grease for bearings of rollers and main shaft automatically. This can save labor and time on maintenance and improve production efficiency

* Double layer ring die, when the holes on one side worn out can turn the ring die to use the holes on the other side, thus to extend the lifetime of ring die and reduce cost on produce pellets



* Ring die made of 20CrMnTi alloy steel, with forge and heat treatment technical, so that to make sure the hardness and abrasion resistance suits make pellets from hard wood, soft wood and other biomass material




* Pelletizer machine equipped dust collector to collecting dust and vapor from pelleting chamber



* We can calculate compression ratio of ring die according to your raw material, thus to produce better quality pellets.

* Equipped with electric panel apply star-delta start for main motor, so that to reduce starting amps

2. Detailed specification for wood pelletizer machine

No.	Name/Model	Specification	Quantity	Picture
101	Belt conveyor Model: FDP50	Length 8 meters, rubber belt, motor power 2.2kw Send dried raw material into pellet mill. Belt moving speed adjustable from electric panel by frequency converter thus to control feeding speed.	1	
102	Strong magnet	Installed on belt conveyor to remove iron from raw material, in case iron go to hammer mill and damage the hammers and sieve Size 500x300x200mm	1	

<p>103</p>	<p>Vertical ring die pellet mill</p> <p>Model: MKLH760</p>	<p>Vertical ring die type pellet mill to produce wood pellets or biomass fuel pellets</p> <p>Capacity 2-2.5t/h</p> <p>Equip with cutter in pelleting chamber to cut pellets</p> <p>Equip with automatic lubricator to lubricate bearing of main shaft and bearings inside rollers</p> <p>Equip with dust collector which can collect dust and vapor from pelleting chamber</p> <p>Equip with high quality main transmission gearbox designed by our company, to improve transmission efficiency and machine running stability</p> <p>Equip with 8 poles three-phase asynchronous motor, pure copper rotor inside motor, to improve pellet mill running stability</p> <p>Equip with electric panel to control the whole system, pellet mill main motor apply star-delta start so that to reduce starting amps, include frequency converter to control conveyor feeding speed. Inside panel have electromotor integrative protector and overheat protector to protect machine from overload and overheat. Have voltmeter and ampere meter to indicting operating voltage and amps. With emergency button and all buttons have English marks</p> <p>Double layer ring die, when the holes on one layer worn out can change to use the holes on the other layer, thus to extend lifetime of ring die</p> <p>Ring die made of alloy steel 20CrMnTi</p>	<p>1</p>	  
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		<p>Equip with 2 press rollers with high quality roller shell</p> <p>Can make 4mm, 6mm, 8mm, 10mm, 12mm diameter pellets</p> <p>Main motor 160kw. Cutter motor 2.2kw</p> <p>Air fan motor 4kw. Automatic lubricator motor 0.55kw</p> <p>Whole system install power: 169kw</p> <p>Whole system install size: 10x5x4 meters</p> <p>Pellet mill dimension: 2900x1300x2400mm</p> <p>Weight: 7400kg</p>		 <p>Automatic lubricator</p>  <p>Electric panel</p>
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3. Remark

3.1 Guarantee/warranty period: 12 months (except wearing parts on pellet mill). During guarantee period, if the machine break down without any artificial factors or buyer operation mistakes, Zhengzhou Fanda Machinery Co., Ltd will provide replacement parts on his own cost and help buyer to repair the machine until the machine can normal running. After guarantee period we provide replacement part on buyer cost.

3.2 After sales service: We provide operation manual for our machine in English version, we have lifetime after sales service for our machine. During buyer use our machine if there is any service required, they can get our online service easily and rapidly.

3.3 Shipping the above listed machines takes one 20 feet container, the above quotation do not include shipping cost

3.4 Deliver period of the above machines is 15-20 working days after received your down payment

3.5 We provide different colors for the painting of the machines, we can painting the machine as your requirement on the color

3.6 Voltage 380V, 50Hz, 3 phase or customized

3.7 MKLH560 model, main motor 90kw, capacity 1-1.5t/h

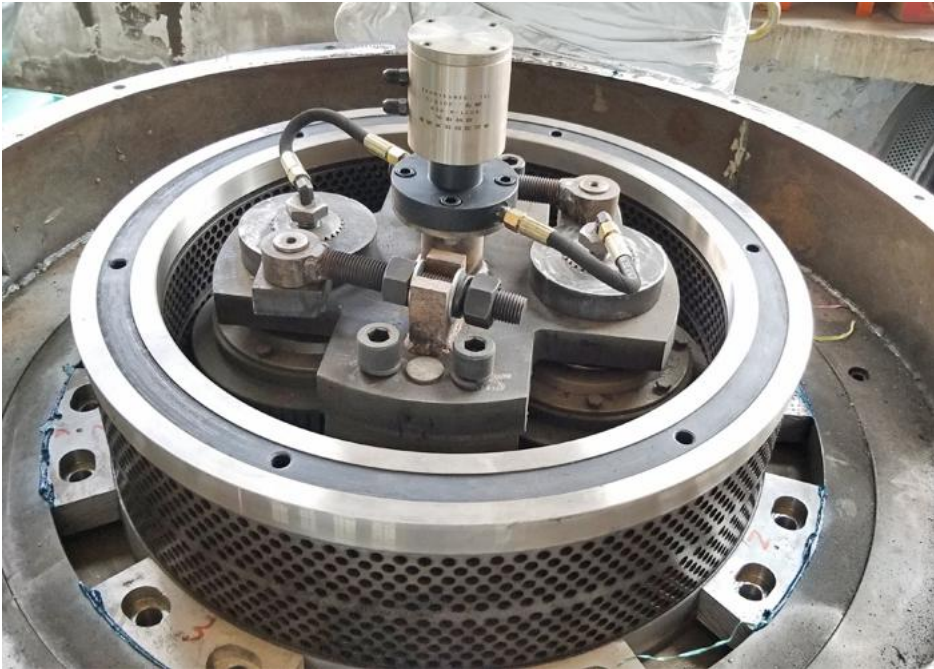
MKLH600 model, main motor 132kw, capacity 1.5-2t/h

MKLH760 model, main motor 160kw, capacity 2-2.5t/h

MKLH850 model, main motor 220kw, capacity 2.5-3.5t/h



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