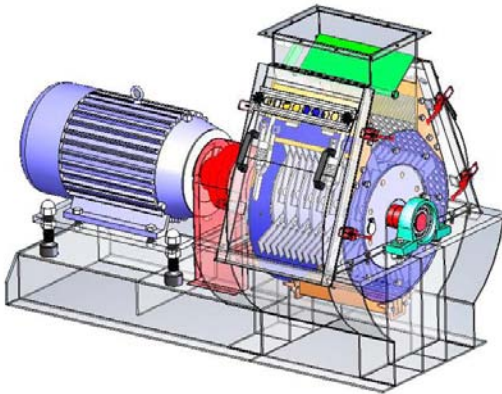


Wood Hammer Mill

1. Introduction of wood hammer mill



1.1 What is wood hammer mill?

Wood hammer mill is a machine to crushing wood to powders like size of sawdust, which is widely used in wood pellet line or charcoal production line to prepare raw material to make pellets or charcoal briquettes. This machine can crushing wood chips, small wood pieces, wood residues., etc wood raw material or EFB fiber and other biomass material to 3-5mm size.

1.2 Which component does a wood hammer mill have?

Wood hammer mill is made up of base frame, motor, rotor, hammers, screen and feeding chute. Inside

grinding chamber is rotor and sieve, on the rotor installed hammers, the motor transmission rotor by coupling.

The rotor and hammers will rotating in high speed when start the motor, raw material feeding from the cute on top of hammer mill, the high speed rotating hammers heat the wood material to pulverizing them. Until the raw material grinding to size smaller than holes on sieve then they will be discharged from the machine.

Diameter of holes on sieve decide the size of finished sawdust from this wood hammer mill, we can manufacture sieve to make 3-5mm, 5-6mm, or 7-8mm size sawdust.

Usually make 6mm diameter wood pellets or charcoal briquettes use 3-5mm sawdust, if make 8mm diameter wood pellets use 5-6mm sawdust, if make 10mm or 12mm wood pellets use 7-8mm sawdust

1.3 What is the size of raw material can feeding into this hammer mill?

Best size of raw material put into wood hammer mill is <6cm, usually people use this kind of wood hammer mill to crushing wood chips, small

wood residues, EFB fiber., etc

If your raw material is wood logs, tree branches, wasted wood, it is better use a wood chipper shredding your raw material to wood chips then use wood hammer mill to make sawdust

If your raw material is building templates, film plywood, waste pallet., ect big size wood plate, it is better use a template shredder reduce the size first and then use wood hammer mill to crushing them.

1.4 What is the advantages of your wood hammer mill?

- Motor and rotor is fixed by coupling, which have higher transmission efficiency compared the machine fix motor and rotor by v-belt
- Hammers on hammer mill use tungsten carbide hammerhead, which have longer lifetime compared with common hammer made of carbon steel
- We do dynamic balance test for the rotor when we manufacture wood hammer mill, so that to avoid vibration when the machine running
- Our company use famous brand bearing, bearing seat and motor on our wood hammer mill to improve machine quality and lifetime
- Easy maintenance, slide the side doors can remove sieve and hammers to replace them



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2. Technical data for different models



Model	Capacity	Main motor power	Hammer quantity	Dimension	Weight
MFSP65x27	0.8-1 t/h	22 Kw	24 pcs	1500*1000*1000 mm	1100 Kg
MFSP65x55	1-2 t/h	37-45 Kw	48 pcs	1700*1000*1300 mm	1500 Kg
MFSP65x75	2-3 t/h	55-75 Kw	72 pcs	2100*1000*1550 mm	1900 Kg
MFSP65x100	3-4 t/h	90-110 Kw	96 pcs	2400*1000*1800 mm	2300 Kg
MFSP65x130	4-6 t/h	132-160 Kw	112 pcs	2800*1620*2100 mm	5300 Kg
MFSP100x130	6-8 t/h	180-200 Kw	128 pcs	3020*1620*2300 mm	6800 Kg










3. Complete hammer mill crushing system

Complete hammer mill crushing system include feeding conveyor, strong magnet, hammer mill, sawdust collect system, dust collect system, bag type dust collector, discharge conveyor and electric panel.

Feeding conveyor	Send raw material into hammer mill Belt moving speed VFD adjustable to adjust feeding speed	
Strong magnet	Installed on conveyor to remove iron from raw material, in case iron go into hammer mill damage the hammers and sieve	

Hammer mill	Crushing raw material to 3-5mm	
Sawdust collect system	Cyclone Collect sawdust from hammer mill	
	Air lock Installed under cyclone to reduce air pressure, thus to prevent dust fly during discharge sawdust	
	High pressure air fan to move crushed sawdust from hammer mill to cyclone and move dust from cyclone to bag type dust collector	
Bag type dust collector	Installed after air fan to collect dust from whole crushing system	

Discharge conveyor	Send sawdust away from crushing system
Electric panel	Equipped with thermal overload protector to protect machine from overload and overheat, main motor apply star-delta start to reduce starting amps, include VFD to control feeding conveyor feed speed

