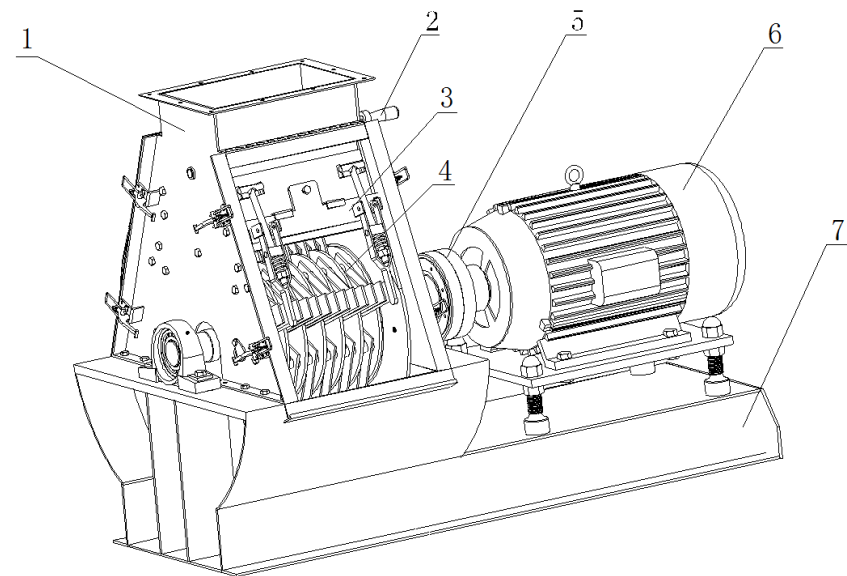
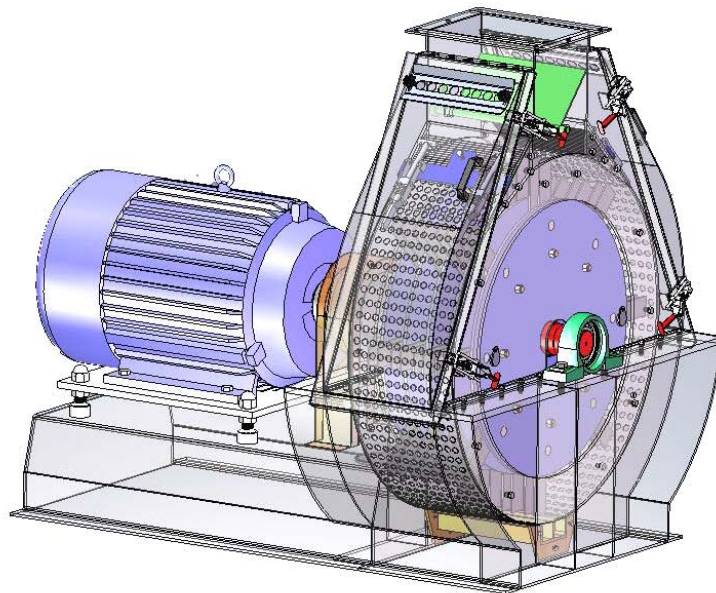


Water drop hammer mill introduction

This hammer mill is called water drop hammer mill because the design adopts water drops shape grinding chamber which causes more times impact force and enhances grinding efficiency. Particles would come across the sieve with the help of centrifugal force and wind power. This is a most popular basic machine in [wood pellet line](#) to process the raw material.

The water drop hammer mill is composed of electric motor, coupling, bearing, rotor, hinge pin, hammers, sieve plate and base frame. The raw material are feed into the grinding chamber by feeding conveyor, sometimes on top of the hammer mill we equip a rotary feeder to get constant feeding speed, in pellet line we also put magnet on the rotary feeder to move the iron. In grinding chamber the raw material are bated by the high speed rotating hammers, then hit the sieve plate and bounce back. The beating and hitting will be continuous with the high speed rotating of rotor. Raw material will be grinded by the impact force from hammers and friction force from sieve plate. When the raw material size is smaller than the holes on sieve it will be discharged by the attraction of blower. Usually this hammer mill is working together with blower, cyclone, airlock and dust collector, the blower provide attraction to move the final crushed material, the cyclone collect the crushed material, the airlock and dust collector is to control dust at end of cyclone.



Water drop hammer mill structure

Why choose water drop hammer mill

1. This hammer mill structure is simple, easy to operate and maintain, the electric panel have chain reaction function to control the whole system. Regarding maintain only need to change hammers and sieve plate.
2. The design of it is much more logically, equipped with rotary feeder, magnet, chain reaction control system and de-dust system make it working with higher performance.
3. The bearing inside this hammer mill is international famous brand, the tip of hammers is tungsten carbide, thus make the lifetime of the machine longer.



tungsten carbide tip hammers

4. Each unit of hammers on the rotor was chose to get same weight before installation, thus when the rotor rotating there is no vibration and friction, this greatly improve the quality of the machine as well as lifetime.



Rotor and bearing

5. This water drop hammer mill is suitable to process small size raw material like: wood chips, rice husk, bagasse, sunflower husk, peanut husk., etc. It is a very good choice for complete pellet line.



Sieve

Water drop hammer mill technical data:

Model	ZW36A	ZW40A	ZW60B	ZW80B	ZW100B	ZW120B
Motor power	22Kw	37Kw	55Kw	90Kw	132Kw	160Kw
Capacity	800-1000kg/h	1000-1500kg/h	1800-2200kg/h	2500-3500kg/h	3500-4000kg/h	4500-5000kg/h
Rotor diameter	560mm	560mm	660mm	660mm	660mm	660mm
Main shaft speed	2980rpm	2980rpm	2980rpm	2980rpm	2980rpm	2980rpm
Hammer linear speed	87m/s	87m/s	78m/s	78m/s	78m/s	78m/s
Grinding room width	360mm	400mm	600mm	800mm	1000mm	1200mm
Hammer quantity	48	56	112	128	144	156
Normal air volume	25m ³ /min	40m ³ /min	55m ³ /min	72m ³ /min	100m ³ /min	130m ³ /min

Note: the above capacity is crushing dry wood chips capacity, if crush grain the capacity is much higher.

