

HML Series Hammer Mill



Hammer mill is the most widely used grinding mill and among the oldest. Hammer mills consist of a series of hammers (usually four or more) hinged on a central shaft and enclosed within a rigid metal case. It produces size reduction by impact.

The materials to be milled are struck by these rectangular pieces of hardened steel (ganged hammer) which rotates at high speed inside the chamber. These radically swinging hammers (from the rotating central shaft) move at a high angular velocity causing brittle fracture of the feed material.

Excellent design to make online or offline sterilization possible.

Advantages

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1. The highest speed is 6000 rpm, 50% higher than that of the competitors’;
2. The screen has a larger effective area, which is about 30% higher than the traditional punching plate screen;
3. Intuitive and simple operation of HMI touch panel;
4. Smart design minimizes moving parts;
5. Clamp type assembly design, convenient for disassembly and modular assembly;
6. The head can be easily separated from the fuselage for offline sterilization;
7. Stainless Steel construction – ideal for Food & Pharmaceutical Processing;

Working Principle

The head of HML series hammer mills is composed of a screen, a rotary knife and a uniform feeding valve. The material enters into the crushing chamber through the uniform feeding valve, passes through the high speed impact of the rotor, and passes through the screen to get the required particle sizes.

Design Characteristics

1. The core components and bearings of the hammer mills are of NSK brand, the electrical parts are of Danfoss, Siemens, Schneider and equivalent famous brands;
2. Compact structure, easy for using and cleaning. Design meets GMP requirements, and can realize sterilizing online or offline;
3. Feeding hopper, uniform feeding valve, pulverizer and pulverizing screens are easy for installation;
4. Mirror polishing makes it without clean dead angle, special structure design makes it with less temperature raising during milling process;
5. The combination of multi-functional design facilitates more flexibilities for users.

Technical Parameters

Model	Capacity	Speed	Power	Weight
HML-200	10~100kg/h	1000~7000rpm	4KW	200kg
HML-300	50~1200 kg/h	1000~6000rpm	4KW	260kg
HML-400	50~2400 kg/h	1000~4500rpm	7.5KW	320kg