

# Hammer Mill



Design by : [www.corefocus.in](http://www.corefocus.in)



**AMBICA**  
CRUSHTECH PVT. LTD.

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#### **FIELDS OF APPLICATION**

Hammer Mills are used for primary and secondary crushing of various types of material in almost all industrial sectors.

#### **FEED MATERIALS**

Hard coal and lignite in coal processing plants, coking coal for the iron and steel industry, limestone and gypsum rock or other related soft to medium-hard minerals, as well as various types of salt.



Hammer Mill, type 1212



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### MODE OF OPERATION

The feed material is distributed over the whole width and fed to the machine by various types of conveyor systems. The high rotational speed of the beater heads generates a closed circuit. The feed material strikes the beater heads from above and is hurled between the beaters and the impact wall while passing through the machine. This repeating process ensures that the feed material is crushed to the desired product size.

The flexible suspension of the beater arms on the rotor ensures that the Hammer Mill is insensitive to damages caused by any hard foreign particles that may be in the feed material. The beater heads are wear parts and can easily be replaced. Adjustment of the grinding wall to the crushing radius (gap width) and rotor speed (m/s) are major factors in determining the reduction ratio and product size.

### SPECIAL FEATURES

The rotor is forged in one piece, the fixing holes for the beater arms are arranged in a special device. The precisely balanced design of the opposing beater arms and beater heads ensures smooth running. The beater arms are made of high-quality steel and are easy to replace. The beater heads are manufactured from alloy steel or compound casting.

Hammer Mills are designed to be driven at either constant or variable rotor speeds. Inspection flaps and the hinged housing ensure easy maintenance.



Rotor size 1600 mm dia. x 2800 mm width



Heating system with electrical heating elements



Impact wall furnished with grinding ledges and replaceable grate in the lower section for reducing oversized grain



Heating system with steam or heat transfer oil

### DESIGN

The non-reversible Hammer Mill (type 1211) allows the beater heads to be reversed when one side is worn out.

The reversible Hammer Mill (type 1212) allows bi-directional operation so that both sides of the beater heads can be used.



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## VERSATILITY

Depending on the application, various configuration options and/or additional structural elements can be utilized:

- **reversible and non-reversible Hammer Mill**  
The reversible version allows the beater heads to be utilized to their optimum by reversing the direction of drive without having to reverse the heads themselves. A number of different drive concepts are available. The Hammer Mill can be driven at either constant or variable speed.
- **mechanically adjustable impact walls**  
For compensating wear and achieving the desired product size.
- **hydraulically adjustable impact walls**  
For tasks that frequently vary in relation to product quality and particle size distribution.
- **pressure shock resistant design of housing**  
As a protective device when processing hazardous feed materials.
- **with surrounding impact wall**  
For very moist feed materials with a tendency to clog.
- **with heated impact walls (electric, steam or heat transfer oil)**  
To improve material flow when processing materials with a tendency to clog.
- **with replaceable grate**  
To limit oversized grain. Not suitable for moist, sticky and clayey feed materials.
- **for combined grinding and drying**  
To reduce moisture content while crushing the material at the same time in one cycle.

## ADVANTAGES

- high and constant capacity
- high availability
- long lifetime
- easy replacement of wear and spare parts
- broad range of application
- high reduction ratio

## SCOPE OF APPLICATION

- feed size: up to approx. 300 mm
- product size: up to < 1 mm  
depending on type and size of feed material
- capacity: up to 5000 t/h
- reduction ratio: up to 1:30
- required power: up to 1800 kW



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