

## The Self-Feeding Mill for Small Throughputs

# HIGH-SPEED HAMMER MILL HM

The high-speed hammer mill HM is a universal machine for grinding a wide range of products such as grain, compound feed, cleaning residues, fish meal, etc.

It is designed for pneumatic conveying of the ground product. A specially developed rotor, similar to a blower, generates a strong air flow for transporting the product through the mill into a separator/filter.



## Your Advantages

### Efficient Grinding with Pneumatic Conveying

- Aspiration air is generated by the rotor itself
- Pneumatic conveying of the ground product up to 12 m after the mill
- Grist outlet optionally possible on the right or left, depending on the installation requirements

### Reliable Operation and Long Service Life

- Robust welded steel construction for continuous industrial operation (24/7)
- Grinding chamber equipped with wear elements to protect the housing, easy to change
- Durable, optimised rotor design, dynamically balanced
- To protect the screens: foreign body catch trap for impurities inside the grinding chamber

### High Availability with Low Downtimes

- Rotor with short run-down time < 6 min without brake
- Large front door allows easy and quick access to the machine interior
- Screen without frame, easy and quick to change

### High Safety of Personnel and Plant

- Standstill monitoring with door protection
- Pressure shock resistant and flameproof design (0.4 bar)
- ATEX design according to zone 21 (II 2 D) inside and zone 22 (II 3 D) outside optionally possible

## Technical Details

Type	HM 1	HM 3
Grinding chamber diameter (mm)	700	700
Screen width (mm)	150	250
Grinding chamber area (m <sup>2</sup> )	0.30	0.50
Dimensions and weight		
Length* x width x height (approx. mm) <small>*depending on motor size</small>	1550 x 900 x 1200	1900 x 900 x 1200
Weight without motor (approx. kg)	500	610
Drive		
Motor size (kW)	11 - 22	22 - 45
Speed 50 Hz/60 Hz (rpm)	3000/3600	3000/3600
Speed with frequency converter 30-60 Hz (rpm)	1800 - 3600	1800 - 3600

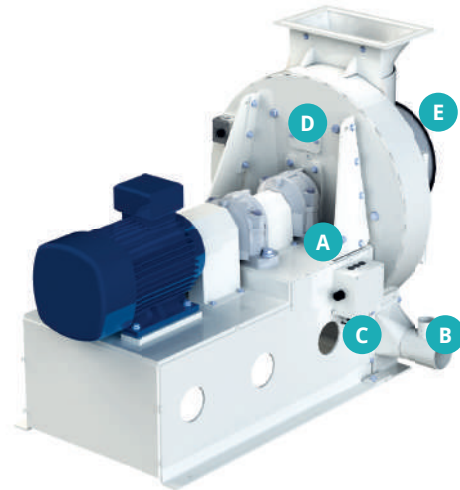
## Standard Supply and Options

### Standard Scope of Supply:

- Pressure shock resistant up to 0.4 bar and flameproof
- Automatic door locking with standstill monitoring
- Flexible cam coupling (N-EUPEX) with coupling guard
- Vibration dampers, height adjustable
- Inlet funnel at the grinding chamber door
- Outlet nozzle sideways right or left
- Electrical components completely wired to terminal boxes
- Drive motor B3 with integrated PTC thermistor sensors
- 1 set of beaters, ready mounted
- 2 screens, one of them installed in the mill
- 1 set of special tools
- Multi-layer coating

### Option:

- Safety package consisting of:
  - Bearing temperature monitoring
  - Grinding chamber temperature monitoring
  - Grinding chamber vacuum monitoring
- ATEX design according to zone 21 (II 2 D) inside and zone 22 (II 3 D) outside
- Magnet for inlet funnel
- Explosion venting valve on the mill door



**A** Foreign body catch trap



**B** Outlet nozzle with flange



**C** Grinding chamber temperature monitoring



**D** Bearing temperature monitoring



**E** Explosion venting valve