

Optimised for Fine Grinding

LARGE CHAMBER HAMMER MILL FD

The hammer mill FD is a further development of our proven large chamber mills that has been specially optimised for fine grinding in the 400-800 µm range. It is therefore particularly suitable for demanding recipes in the pet food and fish feed sectors, but also for similar requirements in other products, such as the production of wood flour.



Your Advantages

Efficient Grinding for High Fineness Requirements

- Optimised impact zone with hardened impact plates on both sides of the inlet
- Extension of the impact area for higher finenesses and narrower grist spectrum possible with impact plates made of Hardox
- Stabilisation of the fine and thin screens by a support cage
- Special sealing of the screens so that no coarse off-spec grain gets into the product
- Variable grist spectrum by adjusting the beater circumferential speed (when using a frequency converter), the screen perforation and the beater configuration

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, operation in both directions of rotation

- To protect the screens: foreign body catch trap for impurities inside the grinding chamber

High Availability with Low Downtimes

- Quick and easy change of beaters due to beater frame system, beaters can be exchanged outside the mill
- With a second set of beater frames, the machine is immediately ready for use again
- Rotor with short run-down time < 6 min without brake
- Wide-opening doors allow easy and quick access to the machine interior
- 4-part screen segments (max. 2 mm sheet thickness) without frame, easy and quick to change segment by segment

High Safety of Personnel and Plant

- Standstill monitoring with door safety device
- 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

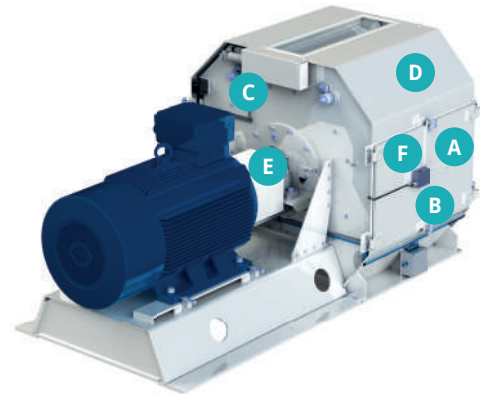
Technical Details

Type	FD 12	FD 20	FD 25
Grinding chamber diameter (mm)	1200	1200	1200
Screen width (mm)	640	1000	1250
Grinding chamber/screen area (m ²)	2.39/1.84	3.77/2.88	4.72 /3.6
Drive/Dimensions and weight			
Length x width x height (approx. mm) *depending on motor size	2610 x 1600 x 1600	3050 x 1600 x 1600	3300 x 1600 x 1600
Weight without motor (approx. kg)	1900	2400	2800
Motor size (kW)	132-200	250-315	280-355
Speed 50 Hz/60 Hz (rpm)	1500/1800	1500/1800	1500/1800
Speed with frequency converter 34-60 Hz (rpm)	1000-1800	1000-1800	1000-1800

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
- Manually operated inlet flap with position switch for changing the direction of rotation
- Sealing flange for the grist outlet
- Electrical components completely wired to terminal boxes
- Drive motor B3 with integrated PTC thermistor sensors
- 1 set of beaters, ready mounted on beater frames
- Beater frame changing device
- 2 sets of screens, one of them is installed in the mill
- 1 set of special tools
- Multi-layer coating



Option:

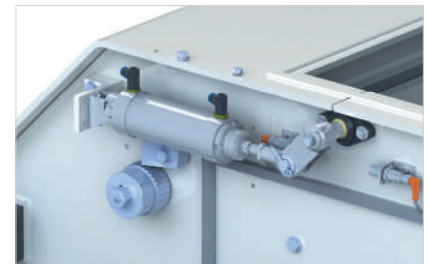
- Safety package consisting of:
 - Bearing temperature monitoring
 - Grinding chamber temperature monitoring
 - Grinding chamber vacuum monitoring
- ATEX design according to zone 21 (II 2 D) inside and zone 22 (II 3 D) outside
- Pneumatically operated inlet flap (automatic change of direction of rotation)
- Additional impact plates to enlarge the impact area



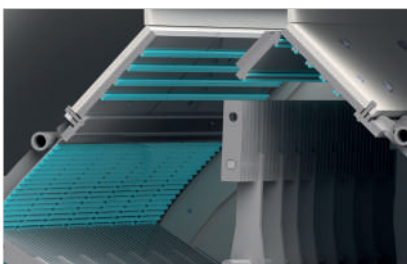
A Beater frame system for quick and easy beater change



B Special screen sealing and support cage for fine grinding



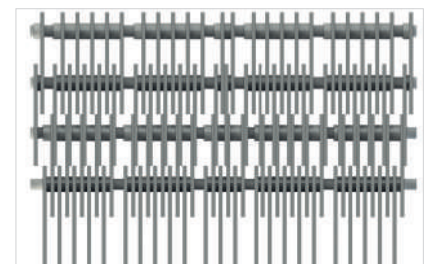
C Pneumatically operated inlet flap (option)



D Additional impact plates instead of the upper screens (option)



E Bearing and grinding chamber temperature monitoring



F Beater arrangement and wiping area adapted to fine grinding