

For High Flexibility with Fully Automatic Screen Change

# LARGE CHAMBER HAMMER MILL GDX

The large chamber hammer mill GDX is particularly suitable for the production of compound feed where the feed structure requirements change frequently. Due to the design as a large chamber mill, high throughput rates are achieved. A special feature is the fully automatic screen change during idling at the push of a button from the control room. Together with an FI-controlled motor, this results in maximum flexibility with regard to the grist spectrum.



## Your Advantages

### Efficient Grinding, High Capacities and Maximum Flexibility

- Optimised impact zone with hardened impact plates on both sides of the inlet
- Large grinding chamber for high capacities
- High energy efficiency due to special rotor design
- Fully automatic screen change allows a selective change in the structure of the ground material in just a few seconds
- 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

- Fully automatic change of different screen perforations during idling
- Quick and easy change of beaters due to beater frame system, beaters can be changed 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

### 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

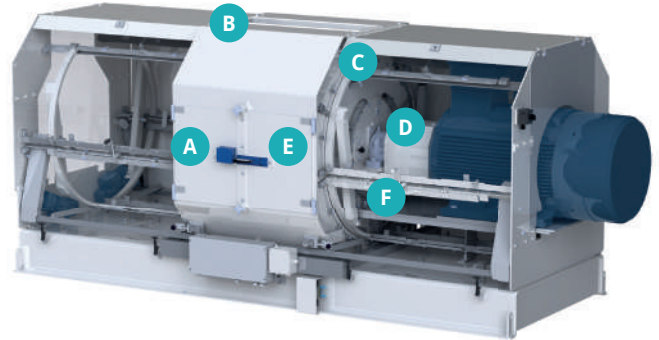
## Technical Details

Type	GDX 12	GDX 20
Grinding chamber diameter (mm)	1200	1200
Screen width (mm)	640	1000
Grinding chamber area (m <sup>2</sup> )	1.80	2.80
Dimensions and weight		
Length* x width x height (approx. mm) *depending on motor size	3300 x 1600 x 1750	4460 x 1600 x 1750
Weight without motor (approx. kg)	1950	2450
Drive		
Motor size (kW)	160 - 250	250 - 355
Speed 50 Hz/60 Hz (rpm)	1500/1800	1500/1800
Speed with frequency converter 34-60 Hz	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
- Pneumatically operated inlet flap with position switch for changing the direction of rotation
- Shifting mechanism for the screens with geared motors
- 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 changing device
- 2 sets of screens, one of them ready mounted on sliding frames on the mill
- 1 set of special tools
- Multi-layer coating

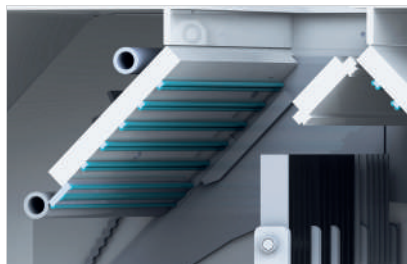


### Option:

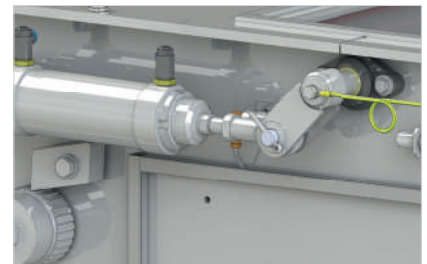
- Safety package consisting of:
  - Bearing temperature monitoring
  - Grinding chamber temperature monitoring
  - Grinding chamber vacuum monitoring
- ATEX design according to zone 21 (II 2 D) inside and zone 22 (II 3 D) outside
- On-site control cabinet for controlling the screen change during operation and maintenance work



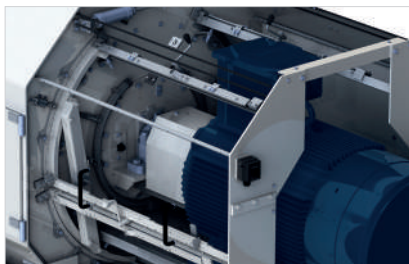
**A** Special rotor design



**B** Hardened impact plates



**C** Pneumatically operated inlet flap



**D** Shifting mechanism for the screen segments



**E** Beater frame system for quick and easy beater change



**F** Bearing and grinding chamber temperature monitoring