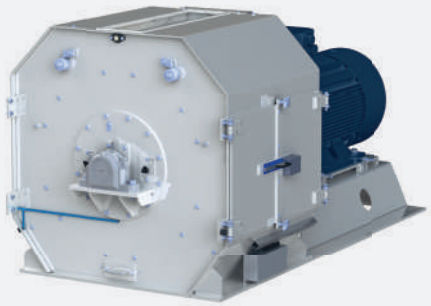
TIETJEN
DAS ORIGINAL

The Powerhouse for Maximum Throughput

LARGE CHAMBER HAMMER MILL GD

The large chamber hammer mill GD is suitable for use in compound feed production, the ethanol industry, the wood processing industry and for grinding a wide range of other products. Due to the design as a large chamber mill with a diameter of the grinding chamber of 1200 mm and with a width of up to 1250 mm, high throughput rates are achieved.



Your Advantages

Efficient Grinding at High Capacities

- Optimised impact zone with hardened impact plates on both sides of the inlet
- Universal use from fine to coarse grinding possible
- Large grinding chamber for high capacities
- High energy efficiency due to special rotor design
- Suitable for the use of all common screen perforations
- Variable grist spectrum by changing 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 beater change 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
- 4-part screen segments 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

Typ	GD 12	GD 20	GD 25
Grinding chamber diameter (mm)	1200	1200	1200
Screen width (mm)	640	1000	1250
Grinding chamber area (m^2)	1,84	2,88	3,60
Dimensions and weight			
Length* x width x height (approx. mm) *depending on motor size	2610 x 1600 x 16000	3050 x 1600 x 16000	3300 x 1600 x 16000
Weight without motor (approx. kg)	1900	2400	2800
Drive			
Motor size (kW)	160 - 250	250-355	355 - 450
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

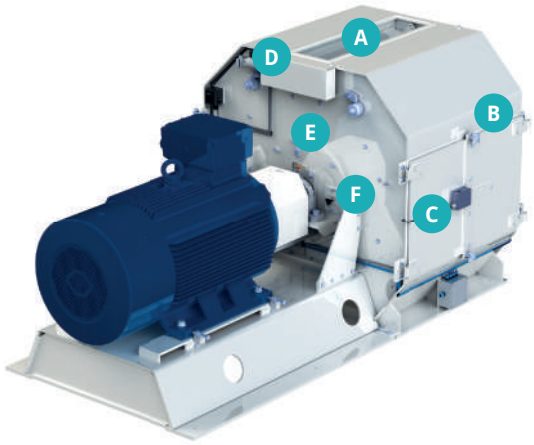
MADE IN GERMANY

Tietjen Verfahrenstechnik GmbH
Vor der Horst 6, D-25485 Hemdingen
+49 (0) 41 06 / 6333-0
info@tietjen-original.com
www.tietjen-original.com
Version 09/2023, subject to change

Standard Supply and Options

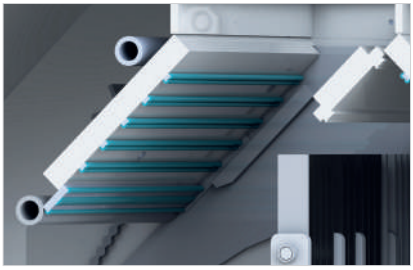
Standard Scope of Supply:

- 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



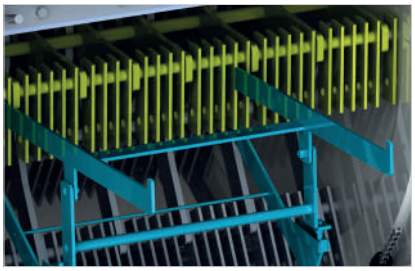
Option:

- 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)

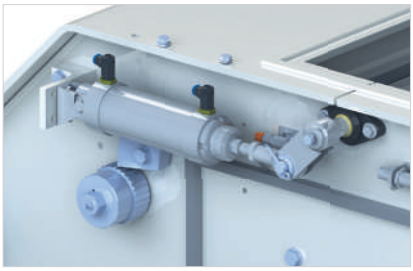


A Hardened impact zone

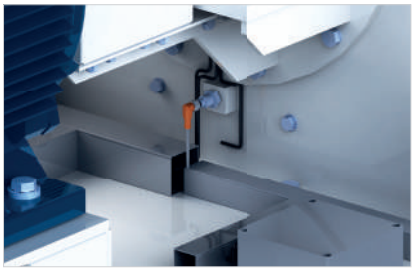
B Special rotor design



C Beater frame system for quick and easy beater change



D Pneumatically operated inlet flap (option)



E Grinding chamber temperature monitoring

F Bearing temperature monitoring

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