Boulder A.G.

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AUTHORIZED SALES REP - IMPORTERS/EXPORTERS

TIETJEN — DAS ORIGINAL

HAMMER MILL – LARGE-CHAMBER MILL SERIES GDL

THE POWER PACKAGE FOR MAXIMUM THROUGHPUT AND QUICK SCREEN CHANGE.

The Hammer Mill GDL is designed for coarse grinding in the feedmilling industry, as well as for fine grinding in pet food and aqua feed production.
Specifically designed for efficient grinding: The special 6-axis rotor design with rapid-change beater-frame system plus optimized beater configuration in combination with beater tip speed guarantees maximum material contact for the efficient production of fine feed as well as coarser-products.
The GDL Series comprises three sizes with a drive-power range between 132 and 450 kW.

TECHNICAL DETAILS

- Strong welded-steel construction with symmetric design, allowing rotation in both directions
- Strong wear-resistant parts protect the grinding chamber and are easy to maintain
- Mill and motor section are separable, making installation easier especially in limited spaces
- Two position inlet flap with proximity switches to change direction of rotation
- Large hardened impact plates at both sides of the mill inlet area to ensure best grinding performance
- Catch-trap for foreign bodies inside the grinding chamber to protect the screens
- Dynamically balanced long-life rotor in special design – run down time < 6 minutes without brake
- Special beater fastening in support frames (cassette-exchange), beater change in just a few minutes
- Wide opening doors allow easy access to the grinding chamber
- Large screen area consisting of 6 screens fitted in frames that can be easily and individually changed from the front side of the mill
- Tested and certified in shock-resistant and flame escape proof design up to 0.4 bar
- Grist spectrum can be varied by a frequency converter (FC) and the beater configuration

Tietjen large-chamber hammer mills prove their worth operating 24 hours a day, 7 days a week – often in the harshest of environments. The reliability of our machines is legendary.

Mill Type	**GDL 12**			**GDL 20**			**GDL 25**		
Grinding chamber diameter	1200 mm			1200 mm			1200 mm		
Screen width	640 mm			1000 mm			1250 mm		
Grinding chamber area	1.84 m²			2.88 m²			3.60 m²		
Dimensions and Weights									
Length* (approx.)	2630 mm			3050 mm			3300 mm		
Width (approx.)	1600 mm			1600 mm			1600 mm		
Height (approx.)	1600 mm			1600 mm			1600 mm		
Weight without motor	1950 kg			2450 kg			2900 kg		
* depending on motor size									
Drive 1500 1/min, 50 Hz – speed between 1000 and 1800 1/min (34 – 60 Hz)									
Power range (kW)	160 kW	200 kW	250 kW	250 kW	315 kW	355 kW	355 kW	400 kW	450 kW

Smooth running large-chamber grinder at an under load noise level < 88 dB (A)

Common application

ATEX category: II 3 D

Pressure shock resistance: 0.4 bar

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STANDARD SUPPLY AND OPTIONS

STANDARD SCOPE OF SUPPLY:

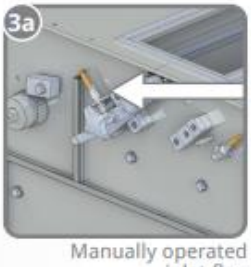
- Multi-layer coating: colour RAL 7032 (pebble grey) or RAL 9001 (cream)
- Pressure shock-resistant 0.4 bar and flame escape proof design
- Automatic door-locking system with stand still monitor
- Manually operated inlet flap with proximity switches
- Elastic pin coupling (N-Eupex) with protection hood
- Vibration dampers, height adjustable
- Sealing frame between the mill outlet and under hopper intake
- Electrical components pre-wired into terminal boxes
- Drive motor B3 with integrated PTC sensors
- 1 set of beaters fitted on beater frames
- Beater frame changing device
- 2 sets of screens, one set fitted in the mill
- 1 set of special tools

Hardened impact plates

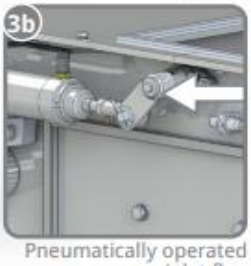
Inlet flap

OPTIONS:

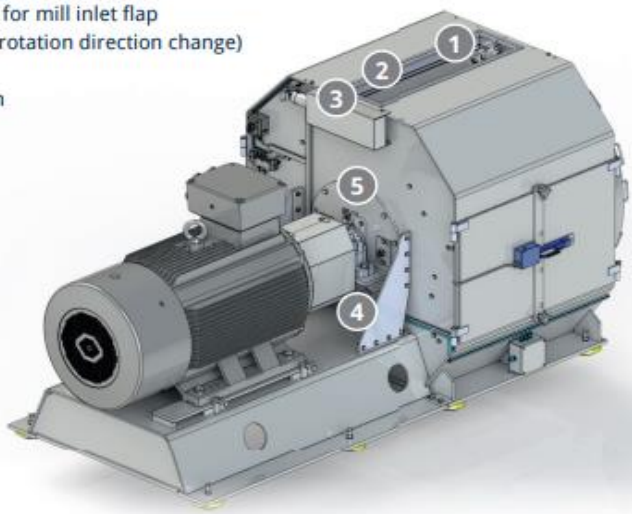
- Security package:
  - Bearing-temperature monitoring
  - Grinding-chamber temperature monitor
  - Vacuum monitor for grinding chamber
- Pneumatic servo drive for mill inlet flap
  (for remote control of rotation direction change)
- Electrical components
  suitable for installation
  in ATEX Zone 22 II 3D

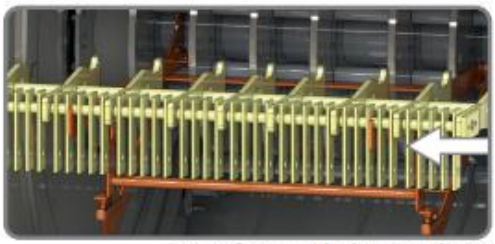


Manually operated inlet flap



Pneumatically operated inlet flap




Beater frame with changing device

Bearing-temperature monitoring

Milling-chamber temperature monitor