Boulder A.G.

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AUTHORIZED SALES REP - IMPORTERS/EXPORTERS

TIETJEN
DAS ORIGINAL

HAMMER MILL – HIGH-SPEED MILL SERIES VDK

THE ROBUST STANDARD MACHINE FOR MEDIUM THROUGHPUT – PARTICULARLY SUITABLE FOR FINE GRINDING APPLICATIONS.

The Hammer Mill VDK is designed for fine grinding in pet food and aqua feed production, as well as for coarse grinding, in the feed-milling, ethanol and wood industries.
Specifically designed for efficient grinding for challenging recipes and products:
The special 6-axis rotor design plus optimized beater configuration in combination with high beater tip speed guarantees maximum material contact for the efficient production of the finest feed as well as coarser products.
The VDK Series comprises five sizes with a drive-power range between 30 and 250 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
- 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 equipped with 6 mm beaters
- Quick beater change by using our special Beater Quick-Change Device
- Wide opening doors allow easy access to the grinding chamber
- Two screens that can be easily and individually changed
- 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 high-speed 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	VDK 4	VDK 5	VDK 7	VDK 9	VDK 13
Grinding chamber diameter	680 mm	680 mm	680 mm	680 mm	680 mm
Screen width	400 mm	520 mm	760 mm	1000 mm	1240 mm
Grinding chamber area	0.6 m²	0.8 m²	1.18 m²	1.54 m²	1.90 m²
Dimensions and Weights					
Length* (approx.)	2010 mm	2210 mm	2610 mm	3010 mm	3250 mm
Width (approx.)	1220 mm	1220 mm	1220 mm	1220 mm	1220 mm
Height (approx.)	1195 mm	1195 mm	1195 mm	1195 mm	1195 mm
Weight without motor	1350 kg	1400 kg	1550 kg	1800 kg	2000 kg
* depending on motor size					
Drive 3000 1/min, 50 Hz – speed between 1800 and 3600 1/min (34 - 60 Hz)					
Power range	55 kW, 75 kW, 90 kW	75 kW, 90 kW, 110 kW	110 kW, 132 kW, 160 kW	132 kW, 160 kW, 200 kW	160 kW, 200 kW, 250 kW

Smooth runnig high-speed grinder at a noise level under load < 90 dB (A)

Common application

ATEX category: II 3 D

Pressure shock resistance: 0.4 bar

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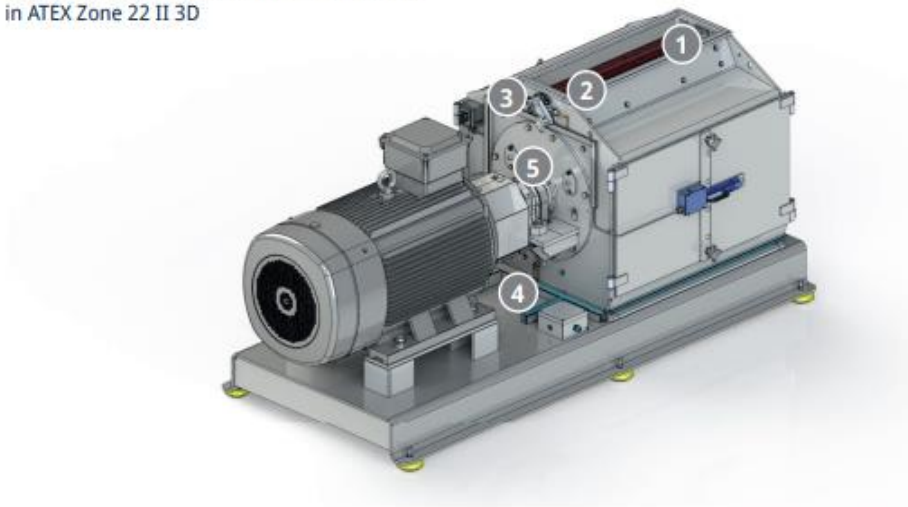
STANDARD SUPPLY AND OPTIONS

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 rotor in the mill
- 2 sets of screens one set fitted in the mill
- 1 set of special tools

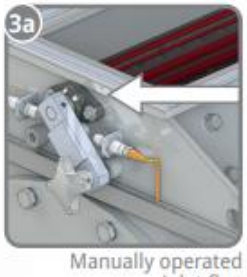
OPTIONS:

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

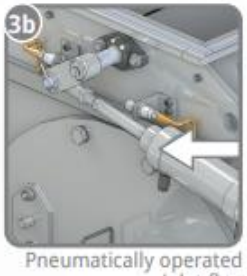


Hardened impact plates

Inlet flap



Manually operated inlet flap



Pneumatically operated inlet flap


Beater Quick-Change Device

Bearing-temperature monitoring

Milling-chamber temperature monitor