TIETJEN
DAS ORIGINAL

The Robust Mill for Medium Throughput

HIGH-SPEED HAMMER MILL VDK

The high-speed hammer mill VDK is suitable for use in compound feed production, the ethanol industry, the woodworking industry and for grinding a wide range of other products. Its solid construction also makes it suitable for high mechanical loads. The maximum speed of 3600 rpm and longer beaters offer advantages in the fine grinding of pet food and fish feed with high fat contents.

Your Advantages

Efficient Grinding of a Wide Range of Products

- Optimised impact zone with hardened impact plates on both sides of the inlet
- Universal use from fine to coarse grinding possible
- Rotor design also suitable for large pieces of material that are difficult to grind
- Suitable for the use of all common screen sizes
- 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 changing device (option)
- Rotor with short run-down time < 6 min without brake
- Wide-opening doors allow easy and quick access to the machine interior
- 2-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

Type	VDK 4	VDK 5	VDK 7	VDK 9	VDK 13
Grinding chamber diameter (mm)	680	680	680	680	680
Screen width (mm)	400	520	760	1000	1240
Grinding chamber area (m^2)	0.62	0.80	1.18	1.54	1.90
Dimensions and weight					
Length x width x height (approx. mm) depending on motor size	2010 x 1220 x 1195	2210 x 1220 x 1195	2610 x 1220 x 1195	3010 x 1220 x 1195	3250 x 1220 x 1195
Weight without motor (approx. kg)	1350	1400	1550	1800	2000
Drive					
Motor size (kW)	30 - 75	75 - 110	110 - 160	132 - 200	160 - 250
Speed 50 Hz/60 Hz (rpm)	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800
Speed with frequency converter 30-60 Hz (rpm)	1800 - 3600	1800 - 3600	1800 - 3600	1800 - 3600	1800 - 3600

MADE IN GERMANY

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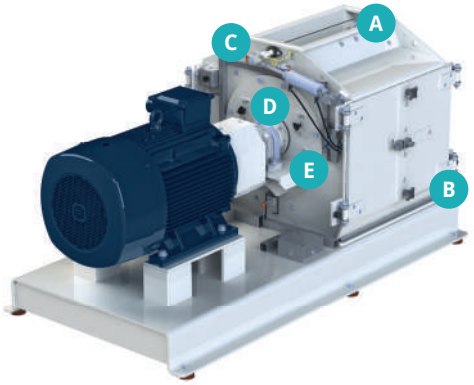
Version 09/2023, subject to change

Standard Supply and Options

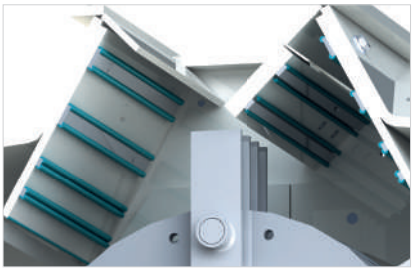
Standard Scope of Supply:

- 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
- 2 sets of screens, one of them is installed in the mill
- 1 set of special tools
- Multi-layer coating

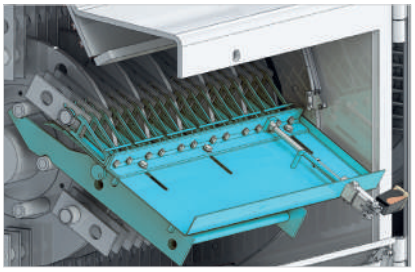


Option:

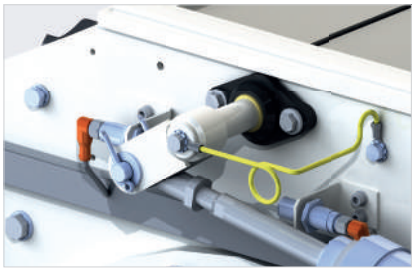
- Safety package consisting of:
  - Bearing temperature monitoring
  - Grinding chamber temperature monitoring
  - Grinding chamber vacuum monitoring
- ATEX design according to zone 21 (II 2 D) inside and zone 22 (II 3 D) outside
- Pneumatically operated inlet flap (automatic change of direction of rotation)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



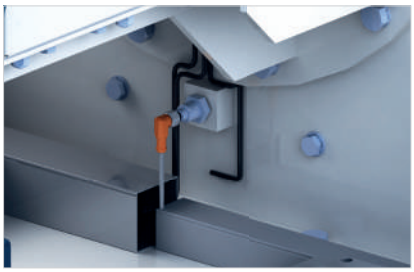
A Hardened impact plates



B Beater changing device for quick and easy beater change (option)



C Pneumatically operated inlet flap (option)



D Grinding chamber temperature monitoring

E Bearing temperature monitoring

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