

HAMMER MILL – HIGH-SPEED MILL SERIES LDE

THE ROBUST STANDARD MACHINE FOR MEDIUM THROUGHPUT AND QUICK SCREEN CHANGE.

The Hammer Mill LDE is designed for coarse grinding in the feed-milling 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 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 LDE Series comprises three sizes with a drive-power range between 55 and 200 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 and for changing the beaters
- Two screens that can be easy 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	LDE 5	LDE 7	LDE 9						
Grinding chamber diameter	680 mm	680 mm	680 mm						
Screen width	520 mm	760 mm	1000 mm						
Grinding chamber area	0.77 m ²	1.12 m ²	1.48 m ²						
Dimensions and Weights									
Length* (approx.)	2350 mm	2750 mm	3150 mm						
Width (approx.)	1220 mm	1220 mm	1220 mm						
Height (approx.)	1195 mm	1195 mm	1195 mm						
Weight without motor	1450 kg	1650 kg	1950 kg						
* depending on motor size									
Drive 3000 1/min, 50 Hz – speed between 1800 and 3600 1/min (34 - 60 Hz)									
Power range	75 kW	90 kW	110 kW	110 kW	132 kW	160 kW	132 kW	160 kW	200 kW

Smooth running 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

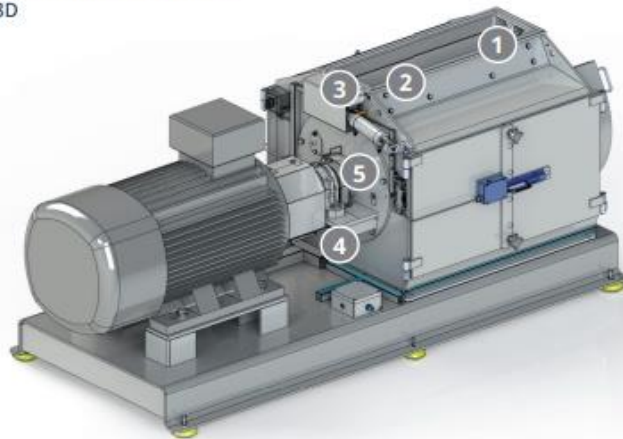
STANDARD SUPPLY AND OPTIONS

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:

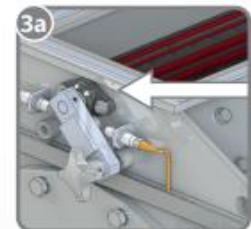
- Security package:
 - Bearing-temperature monitoring
 - Milling-chamber temperature monitor
 - Vacuum monitor for grinding chamber
- Pneumatic servo drive for mill inlet flap (for remote control of rotation direction change)
- Beater Quick-Change Device
- Electrical components suitable for installation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



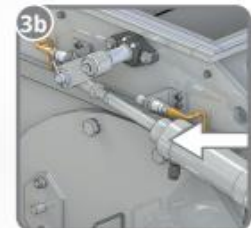
Hardened impact plates



Inlet flap



Manually operated inlet flap



Pneumatically operated inlet flap



Beater Quick-Change Device



Bearing-temperature monitoring



Milling-chamber temperature monitor