

Fine grinding at the highest level

LARGE-CHAMBER HAMMER MILL FD PRO

The hammer mills of the FD Pro series are optimized for the fine grinding of fat and protein-rich recipes. Their sizes are tailored to common extruder capacities and can even serve the latest extruder lines with just one machine.

The mills feature a special screen holder and seal to limit the maximum particle size. The beaters can be changed quickly and easily thanks to the proven Tietjen beater frame system.



Your Advantages

High throughput and high fineness

- Energy-efficient fine grinding of fish feed, pet food, and other products
- Optimized impact zone with hardened impact plates
- Extension of the impact zone for higher fineness and a narrower grist spectrum possible with impact plates
- Special sealing of the screens so that no coarse off spec particles enter the product
- Variable grist spectrum by changing the beater speed (when using a frequency converter), the screen perforation and the beater configuration

Reliable operation and long service life

- Robust welded steel construction
- Grinding chamber equipped with wear elements to protect the housing, easy to replace
- Durable, optimized rotor design, dynamically balanced, operation in both directions of rotation
- Foreign matter catch trap for impurities

High availability with low downtimes

- Quick and easy beater change thanks to beater frame system, beaters can be replaced outside the mill
- Solid screen frames and screen fixing with toggle clamps – easy and reliable to operate
- Rotor with short run-down time < 6 min without brake
- Sliding doors: quick and easy access to the machine interior
- 2 x 4-part screen segments, quick and easy to replace segment by segment
- Reduced distance between beaters and screens prevents clogging of the screens

High level of safety for personnel and equipment

- Standstill monitoring with door safety device
- Pressure shock resistant and flame-proof
- ATEX design in accordance with Zone 21 (II 2 D) inside and Zone 22 (II 3 D) outside optionally available

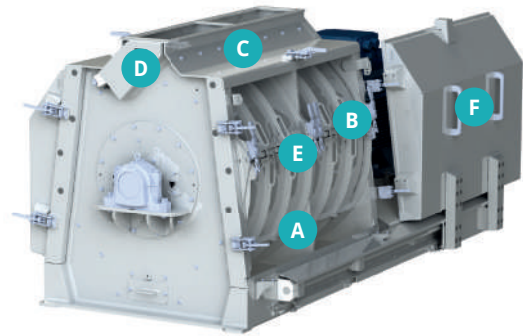
Technical Details

Type	FD 16 Pro	FD 24 Pro	FD 32 Pro
Number of grinding chambers	1	2	2
Grinding chamber diameter (mm)	1300	1300	1300
Screen width (mm)	1 x 800	2 x 600	2 x 800
Grinding chamber area/screen area (m ²)	2.4	3.6	4.8
Required feed	1	1	2
Dimensions and weight			
Length* x width x height (approx. mm) *depending on motor size	3000 x 1900 x 1746	3650 x 1900 x 1746	4080 x 1900 x 1746
Weight without motor (approx. kg)	3400	4500	5160
Drive			
Engine size (kW)	200 - 315	315 - 450	355 - 450
Speed 50 Hz/60 Hz (rpm)	1500/1800	1500/1800	1500/1800
Speed with frequency converter 34-60 Hz (1/min)	1000 - 1800	1000 - 1800	1000 - 1800

Product Standard and Options

Standard Scope of Delivery:

- Pressure shock resistant up to 0.4 bar and flame-proof
- Automatic door locking with standstill monitoring
- Elastic cam coupling (N-EUPEX) with coupling protection
- Vibration dampers, height-adjustable
- Pneumatically operated inlet flap with position switch for direction of rotation change
- Sealing flange for the grist outlet
- Electrical components completely wired to terminal boxes
- Drive motor B3 with integrated PTC thermistors
- 1 set of beaters, fully assembled 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



Optional Equipment:

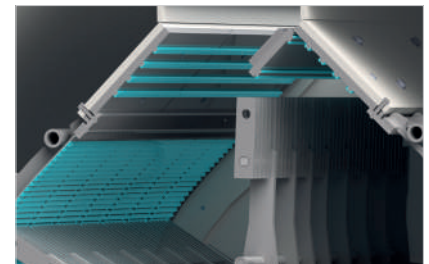
- Safety package consisting of:
 - Storage temperature monitoring
 - Grinding chamber temperature monitoring
 - Grinding chamber vacuum monitoring
- ATEX version according to Zone 21 (II 2 D) inside and Zone 22 (II 3 D) outside
- Additional impact plates to enlarge the impact zone



A Beater frame system for quick and easy beater change



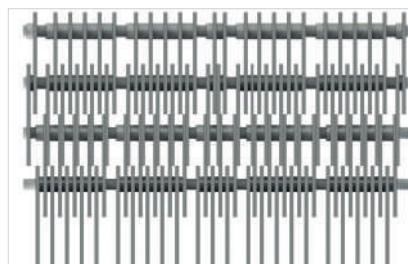
B Special screen sealing and support basket for fine grinding, quick fastening with toggle clamps



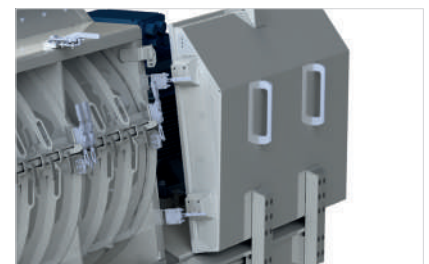
C Additional impact plates instead of the upper screens (option)



D Pneumatically operated inlet flap for operation in both directions of rotation



E Beater arrangement and wiping area adapted to fine grinding



F Sliding doors for easy access to the grinding chamber