FOSS

Hammertec™

Modern hammer mill for sample preparation for the falling number analysis

ANALYTICS BEYOND MEASURE

The FOSS Hammertec™ is a hammer type mill specially designed for standard sample preparation/pre-process solution for falling number analysis (Alphatec FN⁹), NIR, nitrogen combustion methods, and other reference analyses.

Modern design helps to avoid sample carryover
Hammertec is designed using innovative materials and non-stick surfaces. A cyclone sample outlet for convenient sample collection makes the mill virtually self-cleaning between grindings. According to laboratory tests, the reduction in sample carryover is at least 7%.

Smaller and lighter than other hammer mills
Hammertec has a smaller footprint allowing you to free up space in the laboratory. It is significantly lighter than any other hammer mill on the market, making it easier to move and keep the surrounding area clean.

A quieter hammer mill for a safer working environment
A robust and compact design, insulated for low noise level, makes Hammertec significantly quieter than current products in the market. Hammertec is between 1.5 dB and 6 dB quieter than other hammer mills, eliminating the need for ear protection.

Sample types
Dry, flowable whole cereal grain samples: Common wheat, common rye, durum wheat, barley.

Technology
Crushes samples into a fine and homogenous powder using high speed rotation of a hammer by which the sample is impacted.

Specifications

Dimensions (w x h x d)	24 x 38 x 55 cm (without Auto-feeder) 24 x 52 x 55 cm (with Auto-feeder)
Weight, operating:	40,6 kg
Power requirements	200-240 VAC 50/60 Hz or 100-120 VAC 50/60 Hz
Power consumption	1300 W
Thermal overload relay	200 - 240 VAC, 7 A 100 - 110 VAC, 14 A
Motor rotation speed	2800 rpm (50Hz) 3400 rpm (60Hz)
Hammer speed	16800 rpm
Safety brake	Yes
Noise level	< 80 dB
Transient overvoltage	2
Temperature	indoor use, 5-40° C
Relative humidity	maximum relative humidity 80% for temperatures up to 31° C decreasing linearly to 50% relative humidity at 40° C
Pollution degree	2

Easy maintenance
Exchanging the motor belt on your mill has never been easier. Designed with easy opening and access to the belt, makes it possible even for non-experts to replace hassle free.

Meets requirements of AACCI/ICC/ISO methods
AACC: Sample mill, with 0.5- or 0.8-mm screen to produce meal with particle size distribution as follows: >500 µm, 0–10%; >210 but <500 µm, 25–40%; <210 µm, 75–50%.
ISO: Laboratory mill, hammer type, and fitted with a 0,8 mm screen allowing the production of a wholemeal product meeting the particle size specification as follows: 100% passing through 710 µm sieve; 95-100% for 500 µm sieve; <80% for 200 µm sieve.

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