

Laboratory Mill

LM 3100



Benefits:

- Grinds Whole Grains and Pellets
- Large Sample Capacity
- Produces Homogenous Particle Size
- Low Dust Production

Laboratory Mill 3100

The LM 3100 is designed for grinding samples of grains, pellets, meals, feeds, and forages. The ground sample can then be used for analyses such as NIR, Falling Number, Glutomatic,



Kjeldahl etc. The Laboratory Mill 3100 is a hammer type cyclone mill, built into a soundproof casing. An adjustable vacuum feed control regulates the feed rate of the sample into a metallic grinding chamber. A hardened steel hammer rotates at high speed forcing the sample through a stainless sieve. Standard sieve of 0.8 mm is used for Falling Number, Glutomatic System and NIR analyses. Sieves from 0.5 - 2.0 mm are available. The fine, homogeneous sample is separated from air in a cyclone and collected in a quick release stainless steel container. The cyclone principle makes the mill virtually self-cleaning thus increasing lab throughput, accuracy, and efficiency.

Features & Benefits

Robust metal construction: Reliable operation and long instrument life.

Reduced dust: Cyclone outlet with filter bag to minimize dust.

Sound proof casing: Low noise level.

Large sample capacity: Reduces sampling error - fulfills Falling Number requirement.

Vacuum feed control: Airflow feeder regulates feeding and facilitates grinding of large samples.

Homogeneous particle size: Produces a fine, homogenous sample as required for Falling Number, NIR, and Glutomatic analysis.

High moisture grinding: Adjustable feed rate allows grinding of samples with up to 25 % moisture.

Self-cleaning: Cyclone design minimizes cleaning between samples.

Safe operation: Motor cannot start until door is closed and stops immediately when door is opened.

Approved for

Falling Number test: To determine the alpha-amylase activity in wheat and rye.

Glutomatic/Gluten Index test: To determine wet gluten quantity and quality.

NIR-Analysis: To determine protein, fat, hardness, ash and moisture after grinding.

Recommended Accessories

Mill Feeder: A motor driven rubber paddle Mill Feeder can be added to provide a consistent feed rate. This improves grinding of high moisture grain and grain with the hull remaining, e.g. barley, oats and rice. The constant feed rate also improves overall mill performance and reduces motor strain caused by overfeeding of sample.



Specifications

Power requirement: 115 or 230 V, 50 or 60 Hz (specify on order)

Operation: Belt drive 1:6, 16,800 rpm

Capacity: 300 g in 30-50 seconds depending on moisture content

Dimensions (HxDxW): 560x510x630 mm

Net weight: 51 kg

Addresses

H.Q. Stockholm, Sweden

Perten Instruments AB
P.O.Box 5101
SE-14105 HUDDINGE
Tel +46 8 880 990
Fax +46 8 881 210
E-mail info@perten.com

North America

Perten Instruments Inc.
6444 South 6th Street Road
SPRINGFIELD, IL 62707
Tel +1 217 585 9440
Fax +1 217 585 9441
E-mail perteninc@perten.com

Germany

Perten Instruments GmbH
Postfach 900804
DE-21048 HAMBURG
Tel +49 40 76 62 63 0
Fax +49 40 76 62 63 64
E-mail pihh@perten.com

France

Perten Instruments SAS
Paris Nord II, 13 rue de la Perdrix
BP 40038 Tremblay en France
FR-95912 ROISSY CDG CEDEX
Tel +33 1 4817 0480
Fax +33 1 4817 0489
E-mail pifr@perten.fr

Australia

Perten Instruments Pty Ltd
16 Baillie Street
NORTH MELBOURNE, Victoria 3051
Tel +61 3 9329 0510
Fax +61 3 9329 0946
E-mail pia@perten.com

Switzerland

Perten Instruments AG
Chilcherlistrasse 1
CH-6055 ALPNACH
Tel +41 41 670 3366
Fax +41 41 670 3242
E-mail piag@perten.com

Hong Kong

Perten Instruments Ltd
1701 Tai Yau Building
181 Johnston Road, Wanchai
Tel +852 2508 6757
Fax +852 2508 6591
E-mail pihk@perten.com

China

Perten Instruments China Rep. Office
Room 818, Hua Heng Office Bld.
#31, South Binhe Rd., Xuan Wu
District, Beijing 100055 P.R. China
Tel +86 10 6342 3835
Fax +86 10 6342 0907
E-mail pichina@perten.com

www.perten.com