



### PERTEN LABORATORY MILL 3100

The Lab Mill 3100 is a hammer type cyclone mill, built into a soundproofed casing. An airflow feeder regulates feeding of a sample into a metallic grinding chamber. A hardened steel hammer rotates at high speed, forcing the sample through a stainless steel sieve. The fine, homogeneous sample is separated from the air in a cyclone and collected in a quick release stainless steel container. The cyclone principle makes the mill self-cleaning and thus cleaning between samples is not normally required.

Standard sieve 0.8mm is used for Falling Number, Glutomatic/Gluten Index and NIR-analyses. Sieves of 0.5 - 2.0mm are available.

The standard mill approved for three major tests: 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. Operation is belt drive, 1:6, 16,800RPM. Capacity is 300g in 30-50 seconds depending on moisture content. Dims. 23" L x 20" W x 26" H (560 x 510 x 630mm). Net wt. 120 lbs. (51Kg)

Perten Lab Mill 3100 110V, 60Hz, 1PH .....	<b>No. PLM3100/B</b>
Perten Lab Mill 3100 220V, 50Hz, 1PH .....	<b>No. PLM3100/C</b>



### PERTEN LABORATORY MILL 3303

The Lab Mill 3303 is a disc type mill for grinding of grains, peas, maize, soybeans and other products with low fat content. Typical sample size 5-50g. This mill is approved for sample preparation for oven and NIR moisture tests. Adopted by AACC, standard No. 55-30, to determine wheat hardness by PSI (Particle Size Index). The particle size is dependent on the disc type and the discs' distance. The distance is adjustable and three different types of discs are available.

- **TYPE 1** - STANDARD is used for determination of moisture content
- **TYPE 2** - FINE is used for PSI or when a fine particle size is required
- **TYPE 3** - COARSE is used for oats and other grains with high moisture content.

Sample cup size is 250ml. Extra cups with lids available for handling and storage. Operation is direct drive. Disc dia. 75mm. Capacity 50g in 10-15 seconds. Dims 11" L x 6" W x 19" H (280 x 150 x 480mm). Net wt. 36 lbs. (16Kg).

Perten Lab Mill 3303 110V, 60Hz, 1PH .....	<b>No. PLM3303/B</b>
Perten Lab Mill 3303 220V, 50Hz, 1PH .....	<b>No. PLM3303/C</b>
Extra cup w/lid .....	<b>No. PLM3303EC</b>

A motor driven rubber paddle Mill Feeder can be added to any of the mills on this page to provide a consistent feeding of the mill. This improves the grinding of high moisture grain and of grain with the hull remaining (i.e. barley, oats and rice). The feeding of feed raw material and coarse ground products is also improved.

Optional Mill Feeder .....	<b>No. MF3170</b>
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### PERTEN LABORATORY MILL 3600

Laboratory Mill 3600 is a disc type mill designed to grind pellets and large size grains for oven and NIR moisture tests. The sample is rapidly crushed between sharp steel discs and collected in a quick release plastic sample cup. The disc design and the rapid grinding minimize heat development. Loss of water is thus virtually eliminated. Typical sample size 10-250g. Sample cup size 500ml. Laboratory Mill 3600 is delivered with type 1 standard disc. Disc dia. 100mm. Dims 16" L x 8" W x 23" H (400 x 200 x 560mm). Net wt. 75 lbs. (34Kg).

Perten Lab Mill 3600 110V, 60Hz, 1PH .....	<b>No. PLM3600/B</b>
Perten Lab Mill 3600 220V, 50Hz, 1PH .....	<b>No. PLM3600/C</b>
Extra cup w/lid for storage .....	<b>No. PLM3600EC</b>
Type 1 Standard Disc .....	<b>No. PLM3600T1</b>
Type 4 Coarse disc .....	<b>No. PLM3600T4</b>
Type 5 Fine disc .....	<b>No. PLM3600T5</b>