

Laboratory Mill

LM 3310



Grinding



Whole Grains



Oilseeds



Pellets

The Most Rugged, Long-lived Sample Grinders Made

Laboratory Mill 3310

The Laboratory Mill 3310 is a disc type mill for grinding grains, peas, corn, soybeans and other products. The sample is rapidly crushed/sheared 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 is 5-50 g for general applications and 10-15 g for grain moisture determinations.



Features & Benefits

Rapid Grinding: Grinding for accurate moisture content analysis.

Practical Sample Collection: Sample is collected in 250 ml cups. Extra cups with lids are available for convenient handling and storage.

Adjustable Disc Setting: Particle size distribution is easily adjusted by changing distance between discs with the knob on the front.

Robust Metal Construction: Reliable operation and long mill life.

One Hand Operated Door: Easy access to grinding chamber for quick and easy cleaning.

Low Noise Motor and Housing: Can be easily placed in the lab.

Hardened Steel Disc

Particle size is dependent upon disc type and inter-disc distance. The distance between discs is adjustable and there are three different types of discs available.

Type 1 – Medium: Used for determination of moisture content.

Type 2 – Fine: Used for Particle Size Index (PSI) or when a fine particle size is required.

Type 3 – Coarse: Used for oats and other high moisture grains.

The Laboratory Mill 3310 is delivered with type 1 disc set.

Applications

The Laboratory Mill 3310 is suitable for sample preparation for oven and NIR moisture tests and is adopted by the AACC International, standard No. 55-30.01 to determine wheat hardness by PSI (Particle Size Index). The mill is used to grind low fat materials (less than 20 %) and for sample preparation for NIR protein analysis.

Recommended Accessories

Mill Feeder: A motor driven rubber paddle Mill Feeder can be added to provide a constant 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.



Specifications

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

Operation: Direct drive

Capacity: 50 g in 10-15 seconds

Dimensions (HxDxW): 440x550x260 mm

Disc Diameter: 75 mm

Net Weight: 33 kg