

### Perten Laboratory Mill 3100

The Lab Mill 3100 is a hammer type cyclone mill, built into a soundproof 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. Included is the standard sieve (0.8mm) which is used for Falling Number, Glutomatic/Gluten Index and NIR analyses. Sieves are available from 0.5–2.0mm.



The standard mill is 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, 16,800 RPM. Capacity is 300g in 30–50 seconds depending on moisture content. Net wt: 115 lbs, Actual dims: 22" (L) x 21" (W) x 25" (H), Ship wt: 147 lbs, Ship dims: 25" (L) x 19" (W) x 27" (H).

Perten Lab Mill 3100 115V, 60Hz, 1PH .....	No. PLM3100/B	Sieve .8mm .....	No. PLM310230
Perten Lab Mill 3100 230V, 50Hz, 1PH .....	No. PLM3100/C	Sieve 1.0mm .....	No. PLM310231
Sieve .5mm .....	No. PLM310234	Sieve 2.0mm .....	No. PLM310233

### 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 is 10–250g. Sample cup size 500ml. Laboratory Mill 3600 is delivered with Type 1 standard disc. Disc diameter 100mm. Net wt: 75 lbs, Actual dims: 18" (L) x 8" (W) x 23" (H), Ship wt: 90 lbs, Ship dims: 20" (L) x 16" (W) x 21" (H).



Perten Lab Mill 3600 115V, 60Hz, 1PH .....	No. PLM3610/B
Perten Lab Mill 3600 230V, 50Hz, 1PH .....	No. PLM3610/C
Extra Cup with Lid .....	No. PLM3600EC
Type 1 Standard Disc .....	No. PLM3610T1
Type 4 Coarse Disc .....	No. PLM3610T4
Type 5 Fine Disc .....	No. PLM3610T5

### Romer Sampling Mills

The durable lab mill is designed to subsample each kernel or coarse feed particle as it is ground. This is the only mill available that combines these two steps into one patented labor saving piece of equipment. The simultaneous process ensures proper sample preparation which is essential to obtaining accurate test results. Both mills can grind and subsample a 2 lb sample per minute. Easy cleaning prevents sample cross-contamination.

Series II Mill is a long lasting powerful mill developed specifically for Mycotoxin analysis. It can also be used for preparation of samples prior to analysis of moisture, proteins, fat, fiber and pesticides. This mill is referenced by USDA-AMS/FGIS as an Approved Equipment for sample preparation. Specifically designed for grains and small pellet feeds. Net wt: 68 lbs, Actual dims: 18" (L) x 12" (W) x 26" (H), Ship wt: 76 lbs, Ship dims: 24" (L) x 15" (W) x 36" (H).



RAS Mill special features include the availability of 2 chute options, a standard single chute for collection of total sample or the "V" chute to split the sample into two sample streams for separate portions. Standard deflector chute included with mill. Specifically designed for products that are difficult to grind due to high moisture +/- or high oil content, such as cottonseed, tree nuts, peanuts or for most pet/animal feed pellets or raw ingredients. CE marked. Net wt: 125 lbs, Actual dims: 28" (L) x 18" (W) x 25" (H), Ship wt: 137 lbs, Ship dims: 32" (L) x 21" (W) x 29" (H).



Series II Mill, 115V .....	No. EQMMS2010
Series II Mill, 230V .....	No. EQMMS2015
RAS Mill, 115V .....	No. EQMMR1010
Optional V Chute for RAS Mill .....	No. EQMMP1240