

# COUNT WEIGHT ANALYSER SYSTEM

IMD Co.

## A UNIT TO AUTOMATICALLY DETERMINE WEIGHT PER 1000 SEEDS

The growing need to determine the weight per 1000 seeds or in general, the relationship between seed count and seed weight can now be quickly and accurately determined with the Old Mill Count/Weight Analyser System.

This unit combines an Old Mill Seed Counter with a high accuracy balance, controlled with a customized Old Mill Model U Controller and custom software.

In operation it will automatically feed a selected count of seed into the weigh cell of a high accuracy electronic balance.

When the required count has been delivered the unit will determine the seed weight and compute the weight per thousand seeds or other weight/count relationship that is required.

If greater accuracy is required the system will empty the weigh cell and repeat the test for as many replications as required and then determine the average and the standard deviation of the data.

The unit includes an Excess Seed Repackage Accessory on which the supply container is placed after seed is put into the unit so that any seed discharged is automatically returned to the supply container.

At the conclusion of testing the supply feeder is automatically emptied and the system is ready for another sample. An audible signal is generated at the conclusion of the test. No operator attention is required after the test process has begun.

Data obtained may be transmitted to an external computer or retained in the C-Flash memory that is part of the unit for later transfer. If desired the unit may be equipped with a bar code reader. Testing programs may also be loaded into the system from a spreadsheet either through the RS-232 port or by means of the C-Flash Memory Card. Customized applications can coordinate with an automatic sampling system or other sample infeed systems, as needed. Seeds that can be handled can range from corn, soybean, cottonseed, wheat, or to nearly any seed which can be fed and counted with an Old Mill Seed Counter

## Count/Weight Analyser



## Specifications

**Seed Feeding and Counting.** The feeding system uses a vibratory bowl feeder and 10 inch general purpose bowl to feed seeds into the counting head in a single file for counting.

The system includes an Excess Seed Repack Accessory to receive seed emptied from the weigh cell, or from the feeder bowl when emptied at the conclusion of feeding, and also from the diverted material discharge of the counting head and conveys it to a supply container placed on the discharge of the Repack Accessory.

The feeder base stand includes the Automatic Seed Clean Out Accessory which empties the feeder bowl at the end of the test to be ready for the next sample.

INTERNATIONAL  
MARKETING AND DESIGN CORP.

13802 Lookout Rd Suite 200 San Antonio, TX 78233  
PHONE: (210) 655 7171 FAX: (210) 655 7551

[www.seedcounters.com](http://www.seedcounters.com)

EXCLUSIVE WORLDWIDE SALES  
AND SERVICE OF OLD MILL  
BRAND FEEDING, COUNTING  
AND PACKAGING SYSTEMS

# COUNT WEIGHT ANALYSER SYSTEM

IMD Co.

## A UNIT TO AUTOMATICALLY DETERMINE WEIGHT PER 1000 SEEDS

For large volume samples an external supply hopper may be added to the system to automatically feed seed to the feeder bowl as needed.

Feed Rate will vary with the type of seed being tested and is typically between 400 and 1000 seeds per minute.

Counting Accuracy with clean seed will have an error rate of 0.1% maximum.

Seed having light foreign material (for example, "bees wings" in corn) can have increase accuracy if the unit is equipped with the Treated Seed Vacuum Accessory which will remove the foreign material as it is fed to the counter.

Weighing----An electronic balance with a measuring sensitivity of 0.001 gram (1 milligram) is used.

The system includes periodic checking of the zero balance of the system (tare weight) and will automatically correct it when it exceeds the tare limit.

On special order the unit is also available with an automatic accuracy checking system which will keep the balance in calibration, should it require recalibration.

Maximum sample weight on the standard unit is 200 grams, typically suitable for 500 corn seeds as a counted sample.

Cycle Time-----A cycle is that period from the beginning of a seed count until the count is completed, the balance has transmitted the weight to the controller, and the weigh cell emptied and restored to testing position.

This cycle time is largely determined by the counting time which would typically be approx. 1 minute.

Approximately 30 seconds are required to empty the weigh cell so a typical replicate cycle time will be between 1-1/2 and 2 minutes.

### Count/Weight Analyser System

Size---The unit has a "footprint" of approximately 25 inches by 30 inches. It may be operated on a desk or table.

It may also be equipped with four legs with casters (optional at extra cost) to provide a free standing system that may easily be moved from one area to another. Specify "System Support Legs" Cat. No. 1081

Power Requirements---100-130 volts, 60 hz 5 amps or may be wired for 200-260 volts, 60 hz, 2.5 amps. Also available for the same voltage ranges for 50 hz operation on special order.

Weight----Approximately 150 pounds net weight (70 kg)

Shipping Weight--- Approximately 220 pounds (100 kg)

Warranty---Warranted (limited warranty) for 1 year following date of shipment.

Ordering Information----Specify Old Mill Count/Weight Analyser Cat. No. 1090

When ordering the standard unit. For special requirements supply details of your anticipated application.