Grain Grading and Sampling Equipment

**Thermometers and Other Equipment**

**Thermometers**

**Glass Refill thermometer:** liquid in glass. -10 to 110 degrees Celsius.

**Glass Refill thermometer:** liquid in glass. -5 to 45 degrees Celsius

**Digital Thermometer:** Measuring range - 50 C to 250 F. Memory of last measure. Low battery display. 15 min. auto shutdown. C and F selectable. Six inch probe length. For measuring temperature of soil, grain, liquids, etc.

**Gun-Type Digital Infrared thermometer:** with laser mark. Measure surface temperature of objects which are difficult to reach or unsafe to contact. Measures temperature of grains or hot spots in electrical panels and equipment. One-hand operation. Auto data hold function after releasing measure button. Range: -30 C to 550 C. Auto power off function. Low battery indication. Back-light display feature. C or F user-selective.
**Plastic case:** for glass thermometer protects therm. when dropped, can be used while inside plastic tube.

**Metal case:** for glass thermometer with clip - protects therm. and must be removed from tube to read temp.

### Other Equipment

**Illuminated Fluorescent Magnifier:**

- 5 in. diameter 3 diopter lens magnifies 1.75 x
- 22W circline fluorescent bulb.(included)
- Bulb cover, for safety.
- Includes industrial duty clamp-on bracket AA
- Heavy-duty spring bal. arms, extend 42 in. (maglampdim10)

**Grading pads: 24" x 20"**
**10 X Tripod Magnifier:** with adjustable focus

**Vacuum pickup:** for handling delicate seed without damage.

**Soil Samplers:** various models from 7/16" core x 5" to 1" core x 20".

**Bag needles:** various types

**Tweezers:** various sizes.

**Seed inspection and mustard rulers.**
Pans, Funnels, Sieves

Sample Pans

**Spouted 1 1/2 quart:** 8 1/2 x 12 x 1 1/2"

**Spouted 3 quart:** 12 x 16 x 2"

**Tin triangular:** 10 x 10 x 2 1/2

**Plastic triangular:** 10 x 10 x 2 1/2

**Polyscoop:** white plastic, for ohaus triple beam balance or for use as container ontop of digital scale.
2 cup measuring cup: plastic.

Funnels

Regulation funnel: with 3.81 cm. opening and a drop of 4.41 cm. from the opening in the funnel to the top of the measure - spun copper and plated.

Commercial funnel

Funnels provides for uniform drop of grain into .5L measuring cup. Funnel is placed on top of cup and filled. Slide is pulled out and lets grain overfill the cup for strikeoff.

Striker 1.9 cm.

0.5 liter measure (diecast): Canadian made. Test weight conversion charts are available on this website.
Champion Industrial Equipment
2855 Marleau Avenue, Suite A
Cornwall, Ontario
K6H 7B6

**Sieves**

**Hand held dockage sieves:** New 2 piece injection molded frame design held together with six fasteners. Uses same perforated round hole and slotted material as before. Will not bend or warp or break.

Send Dimo's Tool & Die your old bent & warped 13" round metal sieves and we can install them into our new frame system.

**Phone for pricing and size availability info.**

**Canola Sieve set:** consists of 6.5/64 round hole, 0.038 slotted and bottom pan, injection molded ABS frame system. Easily clean your canola for green seed testing as well as dockage estimation.

**Cereal Sieve Set:** consists of 5 buckwheat (triangular cut), 6 buckwheat (triangular) and bottom pan. For dockage estimation in wheat, oats, barley and rye.

**Roundhole:** Nos. 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 10, 11, 12, 13, 14, 15, 15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, and 36.

**Slotted:** Nos. 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8.5, 9, 10, 11, 12, 13, 14, 15, and 16.

**Canola:** No. .028, .032, .035, .038 and .040.

**Buckwheat double cut:** Nos. 5, 5.5, 6, 6.5, and 7.

**Bottom pan**

**Tyler U.S. sieves series:** 8" with 2" depth made in frame brass cloth.

**Brass bottom for Tyler sieves**
BOERNER DIVIDER

The 34 divider is gravity operated. Sample is placed in the hopper and released by moving a slide gate located in the hopper throat. The product is evenly dispersed over a cone that has 38 pockets. The grain, after initial separation, is rejoined into two chutes which empty out of the bottom hopper.

The Boerner is calibrated to provide accurate splits of + /– 1% on a 1000g sample. The Boerner divider is made from brass and copper, which makes it rust resistant. The legs and supports are brass plated steel. A divider is supplied complete with two brass pans with handles for easy transport of divided samples. The 34 stands 31” high with 3” clearance under the spouts. Net wt. 32 lbs, Ship wt. 34 lbs., Dims. 19” L x 19” W x 38” H.

CARTER-DAY DOCKAGE TESTER

The Carter-Day Dockage Tester provides accurate and uniform tests of grain samples for dockage. It is the official testing machine used in Federal Grain Inspection Service offices in Canada and the US. system. Official procedures have been established for testing wheat, corn, barley, rye, flaxseed, rice and grain sorghums. Instructions on the proper riddles and sieves to use, along with their procedures for testing these grains, are furnished with the tester. The Carter-Day Dockage Tester is furnished complete with a ½ HP electric motor. Actual dims. 41” L x 27” W x 55” H. Ship wt. with riddles and sieves from 450 lbs. to 475 lbs.
Scales and Weights

**Acculab 710 gram x 0.1 grams** digital scale with pan cover. Comes with AC adapter & 100 gram calibration weight.

**Acculab 510 gram x 0.1 grams** digital scale with pan cover. Comes with AC adapter & 100 gram calibration weight.

**Acculab PP401 Pocket Pro** 400 gram x 0.1 grams digital scale. Small & compact, fits in shirt pocket. Sample tray included.

**Tubular Hanging Scale:** suitable during seeding time to help determine seed and fertilizer application. Portable, light weight with chrome-plated handle and hook. Scales are individually calibrated with certified weights. Has an easy-to-use tare device for quick “taring off” of empty containers. Tare weight 8 lbs. (3.5 kg).

- 50 lb./25 kg Tubular Scale- Weighs 0 - 50 lbs. with 8 oz. increments and 0 - 25 kg in 250 gm increments.
- 20 lb./10 kg Tubular Scale- Weights 0 - 20 lbs. with 4 oz. increments and 0 - 10 kg in 100 gm increments.
Digital Hand Held Scale. 2 Models to choose from:

- 25kg x 0.02kg / 55 lb x 0.05 lb (1/2 oz.)
- 45kg x 0.05kg / 100 lb x 0.1 lb (1 oz.)

Ohaus No. 720 triple beam scale. Readable to 0.1 gram.

Ohaus No. 7724 certified "Legal for trade" weighs 610 grams. Readable to 1/2 gram. Certified by Weights & Measures Canada.

Other Items:

Mettler Toledo PB 1502-S/FACT or PB 3001-S/FACT (electronic) certified .01 accuracy. Weighs 1510 or 3100 gram x 0.01 grams.

Acculab Platform Scales also available. Various sizes and capacities.
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<th><strong>Poly Scoop</strong> also available.</th>
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<td><strong>Stainless steel scoop</strong> (scale must be re-balanced).</td>
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Weights

**Individual weights** available in 5, 20, 50, 100 and 200 gram sizes. Full Ohaus weight sets also available (includes 1-100 gram, 1-50 gram, 2-20 gram, 1-10 gram, 1-5 gram, 2-2 gram and 1-1 gram individual weights.)

**Indicator poise for triple beam scale:**

- 0 to 500 (center beam)
- 0 to 100 (back beam)
- 0 to 10 (front beam)

Hanging Weight 1 kilo (1000 grams) 2.2 lbs

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Sampler Probes

**4ft. (41”):** 8 openings, anodized aluminum - T Handle, 1 1/2” diameter. approx. 104 cm length. Shipping weight 5 lbs.

**6 ft. (69”):** 10 openings, anodized aluminum - T Handle, 1 1/2” diameter. approx. 175 cm length. Shipping Weight 7 lbs

**8 ft. (2.4 m.):** 14 openings, anodized aluminum - T Handle, 1 1/2” diameter. Shipping weight 10 lbs.

**10 ft. (3.1m.):** 17 openings, anodized aluminum - T Handle, 1 1/2” diameter.

**Sampler Probe Parts** available. Replacements Tips, Collars and Handles.
Short sampler probe: (torpedo) 16” (41 cm). 1 opening of 8 1/2", with liquid crystal temperature sticker.

Nobbe probe 20” x 1/2” diameter: 1 opening of 1 1/2”. Copper

Nobbe probe 20” x 3/4” diameter: 1 opening of 1 1/2”. Brass

6” Nickel-plated Bag Trier: 1/2” O.D. at large end.

12” Nickel-plated Bag Trier: 1” O.D. at large end.

Bin Temperature Probe: 8 3/4 length. -10 to 110 degrees celcius. Extensions available.

Sampler probe extensions 3 ft

Brass probes: 6 foot. Price available upon request.