

Boerner-Type Brass Seed and Grain Divider

Operating Manual

Laboratory Equipment

Intended use

Gravity sample divider that splits a seed or grain sample into two representative halves for seed testing, grain inspection and agricultural quality control.

Intended users

Seed testing, grain inspection and agricultural laboratory staff.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- Place the divider on a stable, level floor or bench so it cannot tip over.
- Use a dust mask and work with dust extraction when dividing dusty or allergenic seeds.
- Wear eye protection when pouring dusty samples.
- Do not climb on or lean against the divider.
- Do not overfill the hopper.
- Wear gloves when handling treated seed.

2. Specifications

Splitting mechanism	Central cone with 32 openings feeding two output streams
Accuracy	1% between pans on a 1000 g sample
Material-flow parts	Brass and copper, no welded joints
Frame	Steel legs and supports
Size	12 x 12 x 33 in
Recommended sample size	500-2000 g per split
Variants	Varies by variant: Standard Type or Premium Type

3. Unpacking and setup

- 1 Place the divider upright on a level surface.
- 2 Check that the hopper gate is closed.
- 3 Check that the cone and all openings are clean and empty.
- 4 Place the two collection pans in position under the outlets.

4. Operation

Dividing a sample

- 1 Mix the sample well before dividing.
- 2 With the gate closed, pour the sample evenly into the hopper.
- 3 Open the gate so the sample flows down over the cone.
- 4 Allow all of the sample to pass through; tap the frame gently to clear any remaining seeds.
- 5 Remove the two pans; each holds a representative half.
- 6 For a smaller sample, pour one half back into the hopper and repeat.
- 7 For samples larger than about 2000 g, divide in stages.

5. Cleaning and disinfection

- Clean the hopper, cone and outlets after every sample to prevent carry-over between samples.
- Use a soft brush or compressed air to remove seeds and dust.
- Wipe with a dry cloth; if wiped with a damp cloth, dry thoroughly.
- Do not use abrasive cleaners on the brass and copper surfaces.

6. Maintenance and storage

- Store covered in a dry place to keep dust out of the hopper and cone.
- Check the gate operates smoothly and the outlets are clear before each use.
- Verify division accuracy periodically by weighing the two halves of a known sample.

7. Troubleshooting

Problem	Likely cause	What to do
Halves differ in weight	Divider not level or sample poured unevenly	Level the divider and pour evenly; repeat the split
Seeds remain inside	Seeds trapped on cone or in outlets	Tap the frame gently and brush out the openings
Sample flow blocked	Overfilled hopper or debris in openings	Close the gate, remove excess and clear the openings
Contamination between samples	Divider not cleaned between runs	Clean thoroughly after each sample

8. Disposal

- Dispose of seed samples according to your laboratory's procedures, especially for treated seed.
- Recycle the brass, copper and steel parts according to local regulations.

9. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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