



## OPERATING MANUAL

### Split-O-Matic® Lab Models SM-3L, SM-4L, SM-5L, & SM-6L

#### INTRODUCTION:

- 1/2, 1/4, or 1/8 fractions in a single pass.
- Gate-release hopper assures even sample distribution.

Gilson Split-O-Matic® Splitters are the best choice for large samples that must be quickly and accurately reduced for lab testing. With a single pass, these higher-capacity units process bulk samples of granular materials into small fractions for efficient preparation of test specimens. Exclusive Gilson three-stage design allows user to select sample fractions of 1/2, 1/4, or 1/8 of original. A selection lever sets internal gate positions, directing selected fraction to the sample pan and the balance to the reject pan. Patented V-bottom chutes center material flow for exact division in the following stage. Laboratory Splitters are well-suited for aggregates, sand, gravel, ores, coal and coke or other free-flowing granular materials up to 2in (51mm) topsize.

Split-O-Matics have heavy, welded-steel construction with painted and baked finish. High-capacity sample hoppers have a gate-release mechanism for greater control of sample dividing. Front panel doors latch shut for superior dust control, and open wide for easy for cleaning. Sample pans are included, and are size-matched to hopper capacity.

#### WARNING!

- Wear Personal Protective Equipment as stated by MSDS requirements of the materials being handled.
- Keep all parts of your body away from moving parts of the Split-O-Matic®.
- Sample pans and containers may be very heavy. Use proper lifting equipment, personal safety equipment, and proper handling techniques.
- Insure the access doors are closed and latched during operation.

#### UNPACKING:

Check your Split-O-Matic® for damage immediately upon receipt. Examine the shipping carton **BEFORE** uncrating, then inspect the machine prior to removal from the skid. If any damage is noted, **STOP HERE** and notify the freight carrier to request an inspection. This inspection must include a check for internal damage as well. Gilson cannot be responsible for shipping damage.

Save all packing materials until inspection is complete.

#### SET-UP & OPERATING INSTRUCTIONS:

**NOTE:** These instructions apply only to Gilson Split-O-Matic® models with manually operated controls.

Chute width must be more than twice as wide as the material's topsize to avoid bridging. For materials with oblong pieces, 3 to 4 times topsize is recommended. Contact Gilson for expert advice in selecting the right equipment for your application.

1. Insure that the Split-O-Matic® is set securely on a level, substantial surface. Use a level to check the splitter itself. The Split-O-Matic® must be level to produce accurate splits. The flanges may be bolted to the floor if desired.
2. Set the Fraction Control Lever to the split desired.
3. Place the two sample pans under the splitter, positioned beneath the chutes.
4. Place the bulk sample into the hopper, making sure it is distributed evenly. Open the Release Gate of the hopper, and allow the sample to empty completely from the hopper.

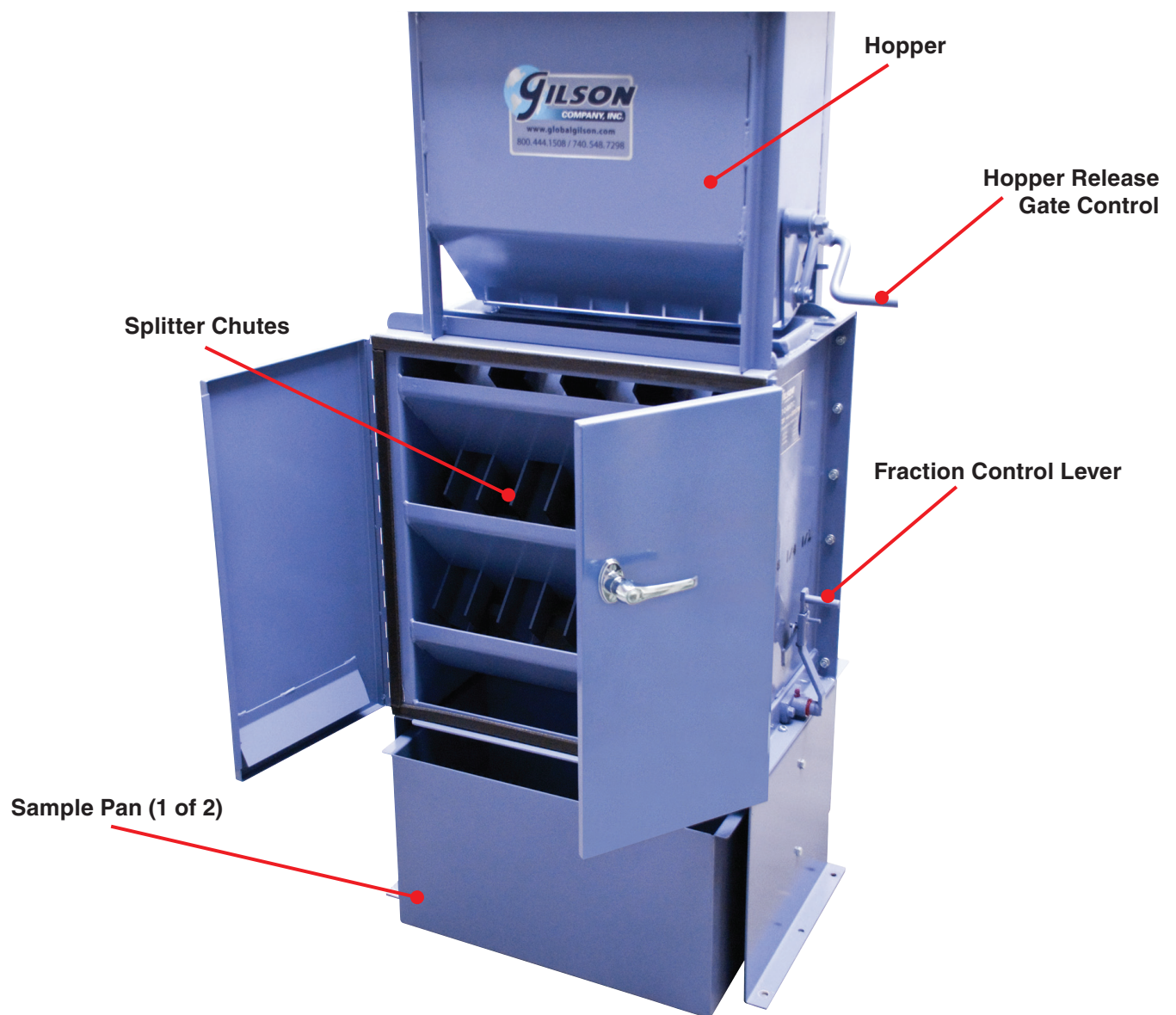
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5. The sample will be distributed into the sample pans. One pan will have the fraction specified by the setting of the Fraction Control Lever, and the other will have the waste portion of the sample.
6. Open the doors and inspect the chutes to ensure the entire sample has gone through the splitter. Use a brush to clean the chutes.

For repair parts and maintenance questions, contact Gilson at **800.444.1508**, or email **techsupport@gilsonco.com**.

## PARTS DIAGRAM:



SM-4L