



QuarterMaster Hot Asphalt
Mix Sample Splitter

The H-4122 Quartermaster™ Splitter is a fixed, 4-chute splitter with a gate-release hopper designed to "Quarter" or reduce sample size of aggregate and hotmix asphalt materials. Aggregate materials larger than 2" or hot-mix asphalt of insufficient temperature to be freeflowing may cause bridging in one or more of the fixed chutes causing blockages and uneven or non-uniform sample distributions. Splitting accuracy can only be as good as the methods employed. We suggest the following guidelines, and all ASTM and AASHTO procedures to achieve representative sample accuracy.

Assembly:

- 1) Place the lower section or base unit of the Quartermaster™ Splitter with four independently adjustable, threaded feet on a smooth, rigid surface.
- 2) Place a carpenter's level across the corners of the base unit, and adjust the four threaded feet so that the base is stable, and level.
- 3) Place the upper hopper section of the Quartermaster™ Splitter on top of the base. Verify the assembled unit remains stable and level.
- 4) Slide the (4) four, included galvanized buckets under the base, so that each container makes contact with two adjacent legs, and each is positioned beneath one of the four chute's. The handles of the buckets should be facing away from the center of the unit for ease of removing the samples after splitting.
- 5) Close the hopper by swinging both hopper doors upward and the release handle under the hopper door catch mechanism.

Operating Instructions:

- 1) Check that the hopper doors are closed and secured with the handle/door catch mechanism.
- 2) Obtain the aggregate or Hot-Mix asphalt sample to be quartered. (See warnings below)
- 3) Place the sample, or samples into the hopper distributing evenly as you pour. Make sure the sample is level from side-to-side and from front to back with a small scoop or trowel.
- 4) Make sure all (4) four buckets are placed below each corner of the Quartermaster™ Splitter base.
- 5) Turn the Release Handle in a smooth, quick, motion, and allow the hopper gates to open simultaneously.
- 6) Retain samples for testing.

Additional H-4122 Quartermaster™ Splitter Information:

For further reductions in sample size, use two opposite corners, combine in hopper and repeat splitting process until the desired fraction is reached 1/8, 1/16, 1/32, etc. For easier clean-up of Hot-Mix asphalt samples, apply a coat of release agent on all surfaces that are likely to come in contact with the asphalt. Please make sure release-agents used, are approved for use with asphalt and do not change the characteristics of the mix being tested.

Warnings

- 1) Asphalt paving materials can be hot, please use extreme caution, and always wear protective clothing and safety equipment to prevent burns and serious injury.
- 2) Always practice proper lifting techniques when handling large samples.
- 3) Use caution when opening the hopper door to prevent injuries from pinching action of the hopper door and the release handle mechanism

Proper attention to safety is the responsibility of the operator.

Warranty

Humboldt Mfg. Co. warrants its products to be free from defects in material or workmanship. The exclusive remedy for this warranty is Humboldt Mfg. Co., factory replacement of any part or parts of such product, for the warranty of this product please refer to Humboldt Mfg. Co. catalog on Terms and Conditions of Sale. The purchaser is responsible for the transportation charges. Humboldt Mfg. Co. shall not be responsible under this warranty if the goods have been improperly maintained, installed, operated or the goods have been altered or modified so as to adversely affect the operation, use performance or durability or so as to change their intended use. The Humboldt Mfg. Co. liability under the warranty contained in this clause is limited to the repair or replacement of defective goods and making good, defective workmanship.

Humboldt Mfg. Co.

875 Tollgate Road
Elgin, Illinois 60123 U.S.A.

U.S.A. Toll Free: 1.800.544.7220

Voice: 1.708.468.6300

Fax: 1.708.456.0137

Email: hmc@humboldtmfg.com

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HUMBOLDT

www.humboldtmfg.com