



# Universal Sample Splitters



Models: H-4288,  
H-4289, H-4290, H-4291

1. Adjust splitter bars for desired chute width as follows:
  - a. Loosen two wing nuts, one on each end of splitter.
  - b. Lock the hopper in the "open" position by using the Safety Lock beside the hand lever. (Not necessary on Model H-4291.)
  - c. Flip the adjustable chute bars back and forth to form alternate right and left chutes of desired width. A chute width of two to three times materials topsize is recommended. Check to be sure the width chosen results in the same number of chutes in either direction.
  - d. Lighten wing nuts, remove Safety Lock, and close hopper.
2. Place sample in closed hopper, distributing as you pour, and level by hand until material is evenly distributed from side-to-side and from front to back in hopper. Position pans.
3. Open gates of hopper using a smooth, rather fast motion of the hand lever. Sample will divide to half the original portion in each of the bottom pans. (NOTE: Hopper gate of Model H-4291 is spring loaded and lever is merely released from holding notch to open hopper).
4. If a smaller sample fraction is needed, transfer portion in one pan to closed hopper, level, and split again. Repeat until the desired fraction is reached, 1/4, 1/8, 1/16, 1/32, etc.
5. Sampling accuracy can only be as good as the methods employed. We suggest the following additional tips be employed as part of your standard sampling procedures:
  - a. Prior to splitting your sample fraction, mix the sample by repetitive dividing and recombining entire sample in the hopper. Repeat until starting sample is thoroughly mixed.
  - b. When pouring samples into hopper, always use care to distribute material back and forth in layers as you pour.
  - c. If bridging or hang-up of material occurs in the chute bar area, reset the splitter for wider chute widths.
  - d. Always be sure your chute bar setting gives an equal number of alternating chutes in each direction. The following chute openings are permissible:  
Model H-4288: 1/2", 1", 1-1/2", 2", 3", 4", 6"  
Model H-4289: 1/2", 1", 1-1/2", 3"  
Model H-4290: 1/4", 1/2", 3/4", 1", 1-1/2", 2", 3"  
Model H-4291: 1/8", 1-1/4", 3/8", 1/2"
6. To position chute attachment on Model H-4288, remove wing nuts from the studs on back of splitter. Insert top of bag loading chute over support angles

that normally hold material pan, fitting holes over threaded studs. Replace wing nuts. With bag-tightening lever in horizontal position (right or left), draw top of bag over sharp corners of chute bottom and reverse fold bag on top of bag-tightening lock tab. Lift lever to secure bag.

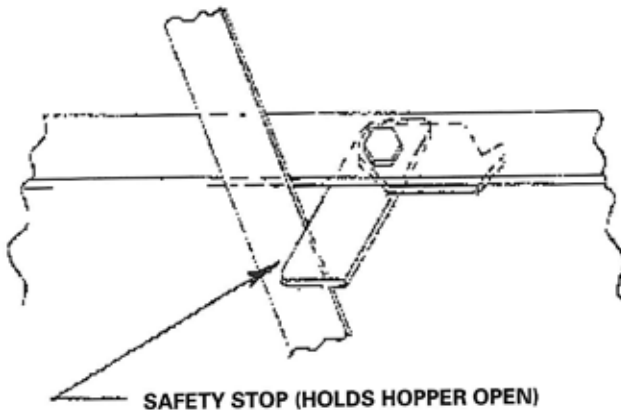
7. Models H-4290, and H-4291 are manufactured with 60° chute slopes as required for coal or coke (ASTM D2013, D346) or for other materials requiring a steep slope for proper sample flow. Other models may be easily changed to 60° from the standard 45° chute slopes by adding the following adapter kits in the field:

Kit for H-4288: Model H-4288.4

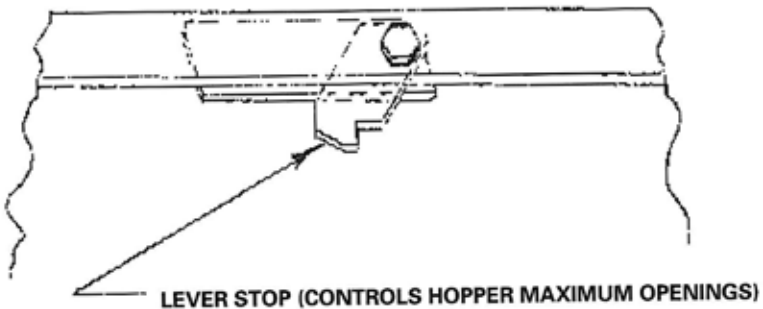
Kit for H-4289: Model H-4290.4

For H-4289:

Two-position stop is used on hopper gate lever. When in Position 1, safety stop holds hopper open during cleaning or bar adjustment. Position 2 controls the maximum amount hopper can open. Failure to utilize this stop may allow material to feed outside of chute area.



Position 1



Position 2

## 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.

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