



Humboldt Sample Splitter Specifications

Model	Material Size (max.)	Chutes Number	Width	Hopper L x W inches (mm)	Pans (incl.)	Ship wt. lbs. (kg)	Steel Pan		Stainless Steel Pan		
							Pan Model #	L x W x H" (mm)	Pan Model #	L x W x H" (mm)	
One-Piece Construction Sample Splitters							Replacement Pans for Sample Splitters				
H-3962A	0.25" (6.3mm)	14	.375" (9.52mm)	8" x 6.75" (203 x 171mm)	2	2 lb (0.91 kg)	H-3981	8.0" x 5.25" x 4.25" (133 x 203 x 108mm)	H-3981S	6.5" x 5.875" x 4.5" (165 x 149 x 114mm)	
H-3964A	0.33" (8.4mm)	14	.500" (12.7mm)	11" x 6.75" (279 x 171mm)	2	2.7 lb (1.2 kg)	H-3986	5.5" x 10.5" x 4.5" (140 x 267 x 114mm)	H-3986S	11.25" x 6.5" x 5.5" (286 x 165 x 140mm)	
H-3966A	0.50" (12.7mm)	14	.750" (19mm)	14.75" x 6.75" (375 x 171mm)	2	3 lb (1.4 kg)	NA	NA	H-3967S	13.25" x 5.125" x 6.625" (337x 130 x 168mm)	
H-3987A	0.66" (16.9mm)	16	1.00" (25.4mm)	20" x 9" (508 x 229mm)	2	5.9 lb (2.68 kg)	H-3988	6.375" x 19" x 4.875" (162 x 483 x 124mm)	H-3988AS	16.375" x 6.5" x 5.25" (416 x 165 x 133mm)	
H-3989A	1.33" (33.8mm)	8	2.00" (50.8mm)	19.5" x 9.5" (495 x 241mm)	2	5.9 lb (2.68 kg)	H-3988	6.375" x 19" x 4.875" (162 x 483 x 124mm)	H-3988AS	16.375" x 6.5" x 5.25" (416 x 165 x 133mm)	
H-3990A	1.00" (25.4mm)	10	1.50" (38.1mm)	20" x 9" (508 x 229mm)	2	5.9 lb (2.68 kg)	H-3988	6.375" x 19" x 4.875" (162 x 483 x 124mm)	H-3988AS	16.375" x 6.5" x 5.25" (416 x 165 x 133mm)	
H-3992A	1.67" (42.3mm)	8	2.50" (63.5mm)	24" x 9" (610 x 229mm)	2	4.5 lb (2.04 kg)	NA	NA	H-3993S	22" x 5.125" x 6.75" (559 x 130 x 171mm)	
Removable Hopper Sample Splitters											
H-3980A	0.33" (8.4mm)	12	.500" (12.7mm)	11" x 8.5" (279 x 216mm)	2	2 lb (0.91 kg)	H-3981	5.25" x 8.0" x 4.25" (133 x 203 x 108mm)	H-3981S	6.5" x 5.875" x 4.5" (165 x 149 x 114mm)	
H-3985A	0.50" (12.7mm)	12	.75" (19mm)	14" x 8.5" (356 x 216mm)	2	2.7 lb (1.2 kg)	H-3986	5.5" x 10.5" x 4.5" (140 x 267 x 114mm)	H-3986S	11.125 x 6.5 x 5.5" (283 x 165 x 140mm)	
Enclosed Sample Splitters											
H-3970	0.25" (6.3mm)	14	.375" (9.52mm)	8" x 6.5" (203 x 165mm)	2	2.1 lb (.10 kg)	NA	NA	H-3977S	7" x 5.75" x 3.75" (178 x 146 x 95mm)	
H-3975	0.25" (6.3mm)	24	.375" (9.52mm)	11" x 4.5" (279 x 114mm)	2	5.5 lb (2.50 kg)	NA	NA	H-3976S	11.875" x 5" x 6.125" (302 x 127 x 156mm)	



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Micro and Precision Splitter Specifications

Chutes		Hopper Size L x W—inches (mm)	Hopper Volume cu.inch (mm)	Pans (furnished)	Pan Capacity cu. inch (mm)	Ship wt. lbs. (kg)	Model	Pan
Number	Width in. (mm)							
16	.125" (3.2)	4.5" x 4.5" (114 x 114mm)	—	2	—	3.7 lbs (3.2 Kg)	H-3971C	H-3972
32	.25" (6.4)	8.9" x 8.3" (226 x 211mm)	160	2	160	15 lbs (10.4 Kg)	H-3973	H-3973.1
22	.375" (9.5)	8.5" x 7.0" (216 x 178mm)	100	2	100	15 lbs (10.4 Kg)	H-3978	H-3973.1
16	.5" (13)	8.8" x 8.0" (224 x 203mm)	150	2	150	13 lbs (9.5 Kg)	H-3974	H-3973.1



Humboldt Sample Splitters (See Previous Page)
ASTM B215, C136, C702, C778, D421, D424, D457, D806, AASHTO T27, T144, T248
Riffle-type sample splitters divide or halve dry materials such as cement, gravel, powdered ores, coal, coke, sand, soils, etc. Material poured into the hopper is divided into two equal portions by a series of chutes that discharge the material alternately in opposite directions into separate pans. Humboldt splitters are stainless steel. Pans are either stainless or cold-rolled steel. See chart to the left for quantity and construction of pans included. Also refer to the chart for ordering replacement or extra pans. All splitters include pans, scoop and cleaning brush. See chart for product details on specific models.

Humboldt, Riffle-Type Sample Splitters for Material from 0.25" to 0.50"
For rapid, single-step reduction of small-size material samples— ideal for field applications. See models: H-3962A, H-3964A, H-3966A.

Humboldt, Riffle-Type Sample Splitters for Material from 0.66" to 1.67"
For rapid, single-step reduction of large-size material samples— ideal for field applications. See models: H-3987A, H-3989A, H-3990A, H-3992A.

Humboldt, Riffle-Type Sample Splitters with Removable Hoppers
For rapid, single-step reduction of large-size material samples— ideal for field applications. See models: H-3980A, H-3985A.

Humboldt, Riffle-Type Sample Splitters with Enclosed Design
Enclosed sample splitters are ideal for dusty samples, including coal, coke and chaff. See models: H-3970 and H-3975.

Micro and Precision Riffle Splitters & Pans
Micro and precision riffle splitters (Jones Type) are designed to reduce bulk material into a convenient representative sample for laboratory analysis. A hopper, with a manual control gate, receives the material to be split, then upon opening the gate, the material flows through a series of equally divided compartments or chutes, sending 50% of the sample to the left-side pan and 50% of the sample to the right-side pan. These splitters consist of a stainless steel hopper with a manually actuated flow gate, stainless steel and anodized aluminum riffle bank, and stainless steel frame with support legs. Two (2) stainless steel high-back (notched L-shape) pans are supplied with the H-3971C micro splitter and two (2) aluminum sample pans are supplied with the H-3973, H-3974 and H-3978 precision splitters.

Micro & Precision Splitters see chart
Shipping wt. see chart

16-1 Sample Reducer
ASTM C136, C702, C778, D75; AASHTO T27, T248
The Sample reducer is used to cut a 1/16th representative sample of a larger material sample by eliminating parts of the sample as it flows down an adjustable 45° or 60° incline. The adjustable 0.25ft³ (7.1L) hopper can be used in batch mode or left open when larger samples are needed . Produces a 10-lb., or greater, representative sample with a maximum particle size of .5" (13mm). Reducer cuts out 1/16th of the material fed through the unit in one pass. (A one-pound sample can be obtained from a 256-pound original sample by passing it through twice). Overall dimensions are: 27" x 18" x 36" (686 x 457 x 914mm).

Unit is supplied without sample containers. Order containers below.

16-1 Sample Reducer H-3994
Shipping wt. 29.3 lbs (13kg)

Container Set for 16-1 Sample Reducer
Container set includes heavy, painted steel "reject" pan that measures: 22" x 13" x 11" (559 x 330 x 279mm) and a lightweight 12 qt. (11L) polyethylene sample container, 10" dia. x 11.5 "H (254 x 292mm) with lid.

Container Set for 16-1 Sample Reducer H-3996S
Shipping wt. 12 lbs (5.4kg)

Quartering Canvas
ASTM C702; AASHTO T248
Heavy-duty quartering canvas for use in selecting and quartering soils and aggregates. All edges are seamed and stitched. H-4135 does not comply with ASTM or AASHTO specs.

6' x 8' (2m x 2.4m) ASTM Canvas H-4136
5' x 5' (1.5m) Square Canvas H-4135
Shipping wt. 4.5 lbs (2kg)

