



Testing Equipment for  Construction Materials

HUMBOLDT

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H-3966, H-3987, H-3989,
H-3990, H-3992
Removable Hopper:
H-3980, H-3985



H-3962, H-3964



H-3970,
H-3975

Humboldt Sample Splitters

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 constructed of cold-rolled steel, or in some cases, stainless steel—see chart below for quantity and construction of pans included. Also refer to the chart below for ordering replacement or extra pans. All splitters include pans, scoop and cleaning brush. See chart below for product details on specific models. All splitters comply with ASTM B215, C136, C702, C778, D421, D424, D457, D806, AASHTO T27, T144, T248.

One-Piece Construction Sample Splitters

For rapid, single-step reduction of large sample volumes—ideal for field applications. See models: H-3962, H-3964, H-3966, H-3987, H-3989, H-3990, H-3992.

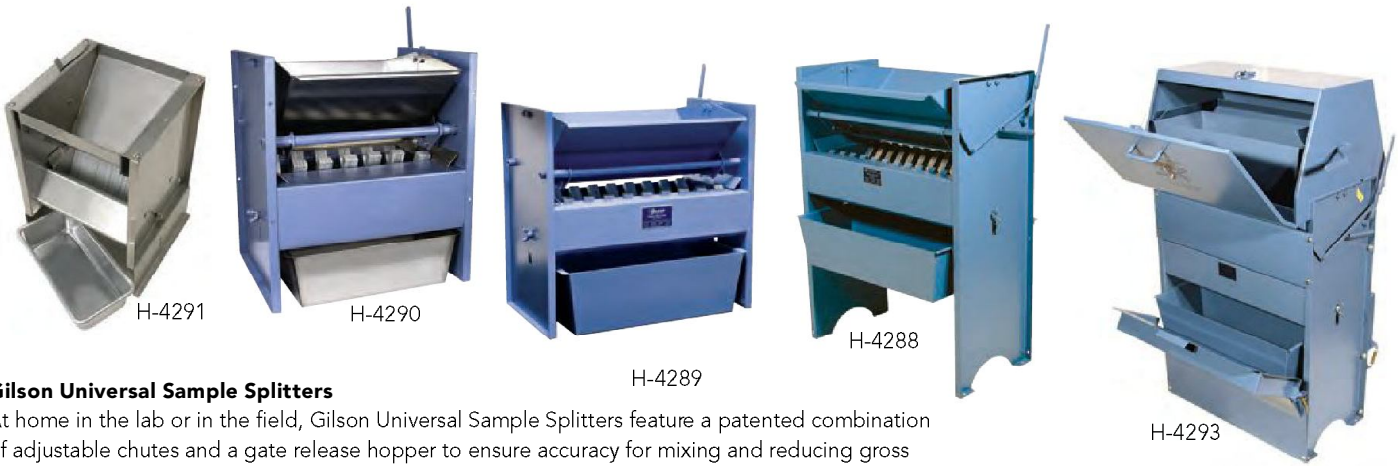
Removable Hopper Sample Splitters

Same design as above models except these have a removable hopper for easier cleaning. See models: H-3980 and H-3985.

Enclosed Sample Splitters

Enclosed Sample Splitters are ideal for dusty samples, including coal, coke and chaff. Comply with ASTM C702, D410, D2013, D3176, D3180; AASHTO T248. See models: H-3970 and H-3975.

Model	Material Size (max.)	Chutes Number	Chutes Width	Hopper W x L inches (mm)	Pans (incl.)	Ship Wgt. lbs. (kg)	Steel Pan		Stainless Steel Pan		
							Pan Model #	H x L x W (L x W) in. (mm)	Pan Model #	L x W x D in. (mm)	
One-Piece Construction Sample Splitters							Replacement Pans for Sample Splitters				
H-3962	.125" (3.18mm)	14	.375" (9.52mm)	6.75" x 8" (171 x 203mm)	4	14 lb (6.3 kg)	H-3981	4.25" x 8.0" x 5.25" (108 x 203 x 133mm)	H-3981S	6.5" x 6.5" x 4.5" (165 x 165 x 114mm)	
H-3964	.166" (4.22mm)	14	.500" (12.7mm)	6.75" x 11" (171 x 279mm)	4	17 lb (7.7 kg)	H-3986	4.5" x 10.5" x 5.5" (114 x 267 x 140mm)	H-3986S	11.25" x 6.5" x 5.5" (286 x 165 x 140mm)	
H-3966	.250" (6.35mm)	14	.750" (19mm)	6.75" x 14.75" (171 x 375mm)	4	27 lb (12.3 kg)	NA	NA	H-3967S	5.125" x 13.25" x 6.625" (130 x 337 x 168mm)	
H-3987	.333" (8.46mm)	16	1.00" (25.4mm)	9" x 20" (171 x 375mm)	4	31 lb (14.1 kg)	H-3988	4.875" x 19" x 6.375" (124 x 483 x 162mm)	H-3988AS	16.375" x 6.5" x 5.25" (416 x 165 x 133mm)	
H-3989	.666" (16.92mm)	8	2.00" (50.8mm)	9.5" x 19.5" (171 x 375mm)	4	27 lb (12.3 kg)	H-3988	4.875" x 19" x 6.375" (124 x 483 x 162mm)	H-3988AS	16.375" x 6.5" x 5.25" (416 x 165 x 133mm)	
H-3990	.500" (12.70mm)	10	1.50" (38mm)	9" x 20" (171 x 375mm)	4	50 lb (22.7 kg)	H-3988	4.875" x 19" x 6.375" (124 x 483 x 162mm)	H-3988AS	16.375" x 6.5" x 5.25" (416 x 165 x 133mm)	
H-3992	.833" (21.16mm)	8	2.50" (63.5mm)	9" x 24" (229 x 610mm)	4	50 lb (22.7 kg)	NA	NA	H-3993S	5.125" x 22" x 6.75" (130 x 559 x 171mm)	
Removable Hopper Model Sample Splitters											
H-3980	.166" (21.16mm)	12	.500" (12.7mm)	8.5" x 11" (171 x 375mm)	4	18 lb (8.2 kg)	H-3981	4.25" x 8.0" x 5.25" (108 x 203 x 133mm)	H-3981S	6.5" x 6.5" x 5.5" (165 x 165 x 140mm)	
H-3985	.250" (6.35mm)	12	.75" (19mm)	8.5" x 14" (171 x 279mm)	4	21 lb (9.5 kg)	H-3986	4.5" x 10.5" x 5.5" (114 x 267 x 140mm)	H-3986S	11.125" x 6.5" x 5.5" (283 x 165 x 140mm)	
Enclosed Model Sample Splitters											
H-3970	.125" (3.18mm)	14	.375" (9.52mm)	6.5" x 8" (165 x 203mm)	2	22 lb (10 kg)	NA	NA	H-3977S	7" x 5.75" x 3.75" (178 x 146 x 95mm)	
H-3975	.125" (3.18mm)	24	.375" (9.52mm)	4.5" x 11" (114 x 279mm)	2	28 lb (12.7 kg)	NA	NA	H-3976S	5" x 11.875" x 6.125" (127 x 302 x 156mm)	



Gilson Universal Sample Splitters

At home in the lab or in the field, Gilson Universal Sample Splitters feature a patented combination of adjustable chutes and a gate release hopper to ensure accuracy for mixing and reducing gross samples to representative smaller test quantities. See chart below for specifications.

Mini-Splitter— H-4291

The smallest of the bench-top units is all stainless steel except for aluminum chute bars and pans. Can be used to split powders to 1/4" (6.4mm) aggregate. See chart below for more information. The optional H-4289.5 Dust Enclosure accessory consists of two stainless steel panels held to front and back of the unit by springs. Includes 2 pans.

Mini-Splitter Dust Enclosure— H-4289.5

Versa-Splitter— H-4290

The Versa-Splitter can be used for fine aggregates up to 3/4" (19mm) aggregate. Contact parts and pans are stainless steel except for aluminum chute bars, which are anodized for corrosion resistance. See chart below for more information. The optional H-4290.5 Dust Enclosure accessory consists of two stainless steel panels held to front and back of the unit by springs. Includes 2 pans.

Versa-Splitter Dust Enclosure— H-4290.5

Porta-Splitter— H-4289

The Porta-Splitter is designed to split most fine gravels and sands up to 2" (51mm) in size. Lightweight with a large hopper capacity, this splitter provides extreme durability in a portable model. Chute slope is 45°, but a 60° adapter kit is available. Includes 2 pans. See chart below for more information. Shipping Wt. 68 lbs. (31 kg).

60° Adapter Kit— H-4290.4

Universal Splitter— H-4288

Rugged, large-capacity floor model for field or lab use. Can split materials from fine sand to 4" (102mm) in size. Features adjustable chutes and gate release 1 ft³ (28.3L) hopper. See chart below for more information. Includes 2 pans. Shipping Wt. 165 lbs. (75kg).

Wheel Kit (set of 2)— H-4288.1

Bag Loading Chute— H-4288.3

60° Adapter Kit— H-4288.4

Total Enclosure Upgrade—H-4288.7

Universal Splitter, Fixed Chute— H-4288FC

Fixed chute model of the H-4288 Universal Splitter. Features 10 fixed-width chutes, 2.25" (57mm) See chart below for more information. Includes 2 pans.

Totally Enclosed Splitter— H-4293

A totally enclosed version of the H-4288 Universal Splitter. Hinged doors provide access to hopper and pans while keeping dust to a minimum. Unlike other enclosed splitter designs, the H-4293 is designed so that all splitting operations are done in the enclosed splitter, including initial dumping of the sample pan. Bottom pans are also enclosed. Shipping Wt. 370 lbs. (168kg).

Chute Settings—Width and Number of Chutes

Chute Width		Number of Chutes (openings)				
		H-4291	H-4290	H-4289	H-4288	H-4293
1/8"	(3.2mm)	48	—	—	—	—
1/4"	(6.4mm)	24	48	—	—	—
3/8"	(9.5mm)	16	—	—	—	—
1/2"	(12.7mm)	12	24	36	48	48
3/4"	(19.1mm)	8	16	—	—	—
1"	(25.4mm)	6	12	18	24	24
1-1/2"	(38.1mm)	4	8	12	16	16
2"	(51mm)	—	6	—	12	12
3"	(76mm)	—	4	6	8	8
4"	(102mm)	—	—	—	6	6
6"	(152mm)	—	—	—	4	4

Capacity Hopper/Pans in ³ /ft ³ (liters)	Chute Bar Width	Chute Bar Number of	Chute Slope	Dimensions L x W x H inches (mm)	Gilson#	Model	Pans Replacements
104 in ³ (1.7)	1/8" (3mm)	48	60°	9-1/2 x 8-1/2 x 13-1/2 (214 x 216 x 343)	SP-3	H-4291	H-4291.1
.28 ft ³ (7.9)	1/4" (6mm)	48	60°	15-1/2 x 12-1/2 x 17-1/2 (394 x 318 x 445)	SP-2.5	H-4290	H-4290.1
0.55 ft ³ (15.6)	1/2" (13mm)	36	45°	22 x 14-1/2 x 20-1/2 (559 x 368 x 521)	SP-2	H-4289	H-4289.1
1.0 ft ³ (28.3)	1/2" (13mm)	48	45°	29 x 19 x 39 (737 x 483 x 991)	SP-1	H-4288	H-4288.2
1.0 ft ³ (28.3)	1/2" (13mm)	10 Chutes Fixed	45°	29 x 19 x 39 (737 x 483 x 991)	SP-1C	H-4288FC	H-4288.2
1.0 ft ³ (28.3)	1" (25mm)	48	60°	29 x 19 x 39 (737 x 483 x 991)	SP-0	H-4293	H-4288.2

Wheels (set of 2) are available (rubber tires w/ ball bearing races) for above sample splitters, H-4288.1



H-4287

California Sample Splitter—H-4287

Designed and constructed for the California Department of Transportation, this splitter meets CalTrans C 201 requirements. For use with 1-1/8" (28.6mm) to sand sized aggregate. Large capacity, 1.9 Cu. Ft. (53.8L) gate release hopper. Ten 2-1/4" (57.2mm) fixed chutes process particle sizes up to 1-1/8" (28.6mm). Sturdy, heavy-gauge steel frame with painted and baked finish is built for extended service life under heavy use. Four swivel casters permit mobility and easy storage in busy, crowded labs. Two 1.2 Cu. Ft. (34L) capacity, welded-steel sample pans are included. Reinforced pans have sturdy handles at each end for safe and convenient handling of heavy samples. Overall dimensions: 29" x 28" x 46" (74 x 71 x 117cm).

Replacement Materials Pan for above—H-4287.1



H-3994

16-to-1 Sample Reducer— H-3994

Produces 10-lb.-or-greater representative samples with maximum particle size 1/2" (13mm). Reducer cuts out 1/16th of the material fed through in one pass. (a one-pound sample can be obtained from a 256-pound original by passing it through twice). Shipping Wt. 30 lbs. (14 kg).

Materials Pan for Reducer—H-3996S

Wash Tub— H-3997

Quartering Canvas—

5' Square (1.5m)— H-4135

5' x 8' (2m x 2.5m)— H-4136

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 and AASHTO specs. H-4136 complies with ASTM C109, C702; AASTO T248.



H-4135



H-3996S

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 of 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 hop-per with a manually actuated flow gate, stainless steel and anodized aluminum riffle bank, and stainless steel frame with support legs. Four (4) aluminum Hy-Back (notched L-shape) pans are supplied with the micro-splitter and two (2) stainless steel sample pans are supplied with each Precision Riffle Splitter.



H-3971C



H-3973



H-3974

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	Replacement Pan
Number	Width in. (mm)							
14	1/8 (3)	4.5 x 4.5	—	4	—	7 lbs (3.2 Kg)	H-3971C	H-3972
32	1/4 (6)	8.9 x 8.3	160	2	160	23 lbs (10.4 Kg)	H-3973	H-3973.1
16	1/2 (13)	8.8 x 8.0	150	2	150	21 lbs (9.5 Kg)	H-3974	H-3973.1



H-4283



H-4276



H-4273

Gilson Testing Screens**(Hydraulic Clamping), 120V 60Hz— H-4283****(Hydraulic Clamping), 220V 50Hz— H-4283.5F****Gilson Testing Screens****(Hand Clamping), 120V 60Hz— H-4276****(Hand Clamping), 220V 50Hz— H-4276.5F**

Both models H-4283 (with hydraulic clamping) and H-4276 (with hand clamping) are ideal for sizing samples of crushed stone, sand gravel, slag, coal, coke, wood chips, ores, pellets, and similar materials. The hydraulic clamping model is recommended for heavy-use situations.

These testing screens with hydraulic or hand clamping are ideal for particle size determinations of crushed stone, sand and gravel, slag, ores, woodchips and similar coarse materials. Samples are quickly processed into as many as seven separations in as little as three to five minutes. Typical batch sizes up to one cubic foot (0.028m³) or more vary with material type.

Both testing screens are often used with fine mesh sizes down to #200 on larger samples when less efficient separation is acceptable. Low-amplitude drive shafts and speed variation accessories are available to optimize machine performance when testing finer samples or special materials. Both units feature high capacity screening for large samples, enclosed drive mechanism for safety, and sturdy feet designed for permanent mounting.

Five Course-Series Screen Trays (specify sizes when ordering) and one Standard Dustpan are included with each unit. The Dustpan may optionally be placed on the bottom shelf of the unit, freeing-up a slot for an additional screen tray.

See the chart on the opposite page for complete specifications and ordering information. Shipping Wt. 470 lbs. (214 kg).

Dustpan Tray— H-4283P**Sand Attachment— H-4281T****Tray Rack— H-4285****Door Enclosure— H-4286****Clean-n-Weigh Accessory— H-4307**

H-4285

Gilson Test-Master®**(6-Slot Model), 120V 60Hz— H-4273****(6-Slot Model), 220V 50Hz— H-4273.5F****Gilson Test-Master®****(7-Slot Model), 120V 60Hz— H-4274****(7-Slot Model), 220V 50Hz— H-4274.5F**

Gilson Test-Master Testing Screens feature an integrated, moveable material hopper for easier sample introduction and vertically-hinged panel doors for improved access and clearance. The 1.6 ft³ (45.3L) hopper is hinged at the rear and allows the sample to be introduced incrementally if desired, as the machine is running. When the hopper is closed, a panel blocks dust from escaping through the opening. The units feature reliable counter-balanced drive assembly, fully enclosed operation and electronic digital controller. Internal rotating counterweights of the drive system equalize the vertical screening action to assure smooth, quiet operation and prevent transfer of vibrations to other lab instruments. Factory-installed options allow greater versatility for processing a wider range of materials. These accessories also reduce particle breakage during screening of sensitive materials such as coal and coke. Shipping Wt. 660 lbs. (299kg).

Screen tray capacity of the H-4273 model is 5 (five included) plus the dust pan while the H-4274 will hold 6 trays (six included) plus the dust pan. Both units are fully enclosed to minimize dust and have built-in digital timers for maximum test repeatability.

Included are five course screen trays with mesh up to #4 screen and one dustpan tray (specify desired mesh sizes when ordering). See the chart on the facing page for more information.

Shipping Wt. both models is 650 lbs. (295 kg).

Dustpan Tray— H-4273P**Stationary Dustpan Tray with Adapter— H-4273DP****Sand Attachment— H-4281M****Tray Rack— H-4285****Clean-n-Weigh Accessory— H-4307**

H-4273DP



H-4281M

**Gilson Porta-Screen® (8 Slot Capacity)— H-4295
(8 Slot Capacity) 220V 50Hz— H-4295.5F**

**Gilson Porta-Screen® (6 Slot Capacity)— H-4297
(6 Slot Capacity) 220V 50Hz— H-4297.5F**

The H-4295 and H-4297 Porta-Screen® have long been the accepted standard portable screens for field control of construction aggregates and quality control of asphalt and ready to mix plants. These units are also useful for size separations of many other materials. Capacity depends on test material, but may range up to 60 lb (27.3 kg) per test. Vibration of both models is mechanically counterbalanced for smooth, stable operation with no required mounting.

Porta-Screen models are designed for performance durability, yet are light enough to be portable. Trays are quickly secured for operation by dual hand clamp levers. When levers are released, trays are individually removable for emptying, cleaning and weighing.

The vibrating assembly is held top and bottom on hardened guide pins. The 1/4-HP motor, drive shaft, and connecting rod are synchronized with a rotating weight counterbalance system. All are enclosed by the enameled steel protective outer case.

Included with the H-4295 are 5 course screen trays with mesh up to a #4 screen and one pan (specify desired mesh sizes when ordering).

Included with the H-4297 are 5 course screen trays with mesh up to a #4 screen and one pan (specify desired mesh sizes when ordering).

See the chart below for complete specifications and ordering information. Shipping Wt. both models is 225 lbs. (102kg).

Porta Wheels — H-4288.1

Dustpan Tray— H-4302

Porta-Screen® Cover— H-4305

Gilson Porta-Pan— H-4306



H-4288.1



H-4295
H-4297

Screen Shakers

Description	Material Size	Maximum Capacity	Model	Gilson No.	Overall Tray Size	Features (see chart)	Motor	Dimensions inches (mm)
Testing Screen with hydraulic clamping	4" (104mm) to No. 200 mesh (14.75mm)	1 cu.ft. (0.3m ³) 80 lbs (36kg)	H-4283	TS1	18" x 26" (457 x 660mm)	1, 2, 3	1/3 HP capacitor	23 x 31 x 33 (584 x 787 x 838)
Testing Screen with hand clamping			H-4276	TS2		1, 2	1/2 HP*	
Porta-Screen® (8-slot)	2" (51mm) to No. 16 mesh (1.18mm) or finer meshes to No. 200 (75mm)	.75 cu.ft. (0.23m ³) 60 lbs (27kg)	H-4295	PS4	16" x 16.5" (406 x 419mm)	1, 4, 5, 6	1/4 HP	19 x 16.5 x 48.3 (483 x 419 x 1222)
Porta-Screen® (6-slot)			H-4297	PS3				19 x 16.5 x 42 (483 x 419 x 1067)
Test-Master® (6-slot)	4" (104mm) to No. 200 mesh (14.75mm)	1 cu.ft. (0.3m ³) 80 lbs (36kg)	H-4273	TM5	18" x 26" (457 x 660mm)	5, 6, 7	1/3 HP	27 x 33 x 45 (686 x 838 x 1143)
Test-Master® (7-slot)			H-4274	TM6	18" x 26" (457 x 660mm)	5, 6, 7	1/3 HP	27 x 33 x 45 (686 x 838 x 1143)

* H-4276.5F has a 1/3hp motor.

TEFC or explosion-proof motors can be quoted upon request.

Features Key:

- 1. Trays independently removable
- 2. In-progress viewing
- 3. Special speed and/or amplitude available
- 4. Portable-mounting not required
- 5. Counter-balanced
- 6. Digital timer
- 7. Totally enclosed

Screen Trays for Testing Screens

Use these tables to order replacement Screen Trays, Wire Cloth and Round Hole Plate Screens for Gilson Testing Screens, Test-Masters and Porta-Screens— Models: H-4283, H-4273, H-4274, H-4295, H-4297.



ASTM sizes are manufactured to comply with wire cloth specifications of ASTM E11 and AASHTO M92. Cloth is designated S for plain steel or SS for stainless steel. Replacement wire cloth is cut to size for specified machines. Trays with cloth No. 16 (1.18mm) and finer incorporate lateral support ribs or coarse backup cloth to support mesh. Backup cloth may be added to trays with or without support ribs as desired. Blank trays (with no cloth) are available, please inquire.

Standard ASTM Testing Screen Trays and Cloth

ASTM Sizes		Cloth Material	18" x 26" (457 x 660mm) Models: H-4273, H-4274, H-4276, H-4283		16" x 16.5" (406 x 419mm) Models: H-4295, H-4297,	
			Tray/Cloth	Cloth only	Tray/Cloth	Cloth only
125mm	5"	S	H-4278C5.000	H-4278WC5.000	NA	NA
106mm	4.24"	SS	H-4278C4.240	H-4278WC4.240	NA	NA
100mm	4"	S	H-4278C4.000	H-4278WC4.000	NA	NA
90mm	3.5"	S	H-4278C3.500	H-4278WC3.500	NA	NA
75mm	3"	S	H-4278C3.000	H-4278WC3.000	INQUIRE	INQUIRE
63mm	2.5"	S	H-4278C2.500	H-4278WC2.500	INQUIRE	INQUIRE
53mm	2.12"	SS	H-4278C2.120	H-4278WC2.120	INQUIRE	INQUIRE
50mm	2.00"	S	H-4278C2.000	H-34278WC2.000	H-4398C2.000	H-4398WC2.000
45mm	1.75"	S	H-4278C1.750	H-4278WC1.750	H-4398C1.750	H-4398WC1.750
37.5mm	1.50"	S	H-4278C1.500	H-4278WC1.500	H-4398C1.500	H-4398WC1.500
31.5mm	1.25"	S	H-4278C1.250	H-4278WC1.250	H-4398C1.250	H-4398WC1.250
26.5mm	1.06"	SS	H-4278C1.060	H-4278WC1.060	H-4398C1.060	H-4398WC1.060
25.0mm	1.00"	S	H-4278C1.000	H-4278WC1.000	H-4398C1.000	H-4398WC1.000
22.4mm	.875"	S	H-4278C.875	H-4278WC.875	H-4398C.875	H-4398WC.875
19.0mm	.750"	S	H-4278C.750	H-4278WC.750	H-4398C.750	H-4398WC.750
16.0mm	.625"	S	H-4278C.625	H-4278WC.625	H-4398C.625	H-4398WC.625
13.2mm	.530"	SS	H-4278C.530	H-4278WC.530	H-4398C.530	H-4398WC.530
12.5mm	.500"	S	H-4278C.500	H-4278WC.500	H-4398C.500	H-4398WC.500
11.2mm	.438"	S	H-4278C.438	H-4278WC.438	H-4398C.438	H-4398WC.438
9.5mm	.375"	S	H-4278C.375	H-4278WC.375	H-4398C.375	H-4398WC.375
8.0mm	.312"	S	H-4278C.312	H-4278WC.312	H-4398C.312	H-4398WC.312
6.7mm	.265"	SS	H-4278C.265	H-3910WC.265	H-4398C.265	H-4398WC.265
6.3mm	.250"	S	H-4278C.250	H-4278WC.250	H-4398C.250	H-4398WC.250
5.6mm	No. 3-1/2	SS	H-4278F3-1/2	H-4278WF3-1/2	H-4398F3-1/2	H-4398WF3-1/2
4.75mm	No. 4	S	H-4278F4	H-4278WF4	H-4398F4	H-4398WF4
4.00mm	No. 5	SS	H-4278F5	H-4278WF5	H-4398F5	H-4398WF5
3.35mm	No. 6	SS	H-4278F6	H-4278WF6	H-4398F6	H-4398WF6
2.80mm	No. 7	SS	H-4278F7	H-4278WF7	H-4398F7	H-4398WF7
2.36mm	No. 8	SS	H-4278F8	H-4278WF8	H-4398F8	H-4398WF8
2.00mm	No. 10	SS	H-4278F10	H-4278WF10	H-4398F10	H-4398WF10
1.70mm	No. 12	SS	H-4278F12	H-4278WF12	H-4398F12	H-4398WF12
1.40mm	No. 14	SS	H-4278F14	H-4278WF14	H-4398F14	H-4398WF14
1.18mm	No. 16	SS	H-4278F16	H-4278WF16	H-4398F16	H-4398WF16
1.00mm	No. 18	SS	H-4278F18	H-4278WF18	H-4398F18	H-4398WF18
850 m	No. 20	SS	H-4278F20	H-4278WF20	H-4398F20	H-4398WF20
710 m	No. 25	SS	H-4278F25	H-4278WF25	H-4398F25	H-4398WF25
600 m	No. 30	SS	H-4278F30	H-4278WF30	H-4398F30	H-4398WF30
500 m	No. 35	SS	H-4278F35	H-4278WF35	H-4398F35	H-4398WF35
425 m	No. 40	SS	H-4278F40	H-4278WF40	H-4398F40	H-4398WF40
355 m	No. 45	SS	H-4278F45	H-4278WF45	H-4398F45	H-4398WF45
300 m	No. 50	SS	H-4278F50	H-4278WF50	H-4398F50	H-4398WF50
250 m	No. 60	SS	H-4278F60	H-4278WF60	H-4398F60	H-4398WF60
212 m	No. 70	SS	H-4278F70	H-4278WF70	H-4398F70	H-4398WF70
180 m	No. 80	SS	H-4278F80	H-4278WF80	H-4398F80	H-4398WF80
150 m	No. 100	SS	H-4278F100	H-4278WF100	H-4398F100	H-4398WF100
125 m	No. 120	SS	H-4278F120	H-4278WF120	H-4398F120	H-4398WF120
106 m	No. 140	SS	H-4278F140	H-4278WF140	H-4398F140	H-4398WF140
90 m	No. 170	SS	H-4278F170	H-4278WF170	H-4398F170	H-4398WF170
75 m	No. 200	SS	H-4278F200	H-4278WF200	H-4398F200	H-4398WF200
63 m	No. 230	SS	H-4278F230	H-4278WF230	H-4398F230	H-4398WF230
53 m	No. 270	SS	H-4278F270	H-4278WF270	H-4398F270	H-4398WF270
45 m	No. 325	SS	H-4278F325	H-4278WF325	H-4398F325	H-4398WF325
38 m	No. 400	SS	H-4278F400	H-4278WF400	H-4398F400	H-4398WF400

Non-ASTM sizes— 1/8" and 1/16"— are available, please inquire.

ISO Testing Screen Trays and Cloth

ISO Sizes	Cloth Material	ISO SCREENS	
		Tray/Cloth	Cloth only
112mm	SS	H-8900TC.112	H-8900C.112
80mm	SS	H-8900TC.80	H-8900C.80
56mm	SS	H-8900TC.56	H-8900C.56
40mm	SS	H-8900TC.40	H-8900C.40
28mm	SS	H-8900TC.28	H-8900C.28
20mm	SS	H-8900TC.20	H-8900C.20
18mm	SS	H-8900TC.18	H-8900C.18
14mm	SS	H-8900TC.14	H-8900C.14
10mm	SS	H-8900TC.10	H-8900C.10
9mm	SS	H-8900TC.9	H-8900C.9
5mm	S	H-8900TC.5	H-8900C.5
2.5mm	SS	H-8900TC.25	H-8900C.25
1.25mm	SS	H-8900TC.125	H-8900C.125
900 m	SS	H-8900TC.900	H-8900C.900
400 m	SS	H-8900TC.400	H-8900C.400
160 m	SS	H-8900TC.160	H-8900C.160

ISO screens for models H-4295 and H-4297 are also available, please inquire.

Round Hole Testing Screen Trays and Plate

ASTM Sizes		ROUND HOLE PLATE	
		Tray/Plate	Plate only
4.0"	101.6mm	H-9900TP.40	H-9900P.40
3.5"	88.9mm	H-9900TP.35	H-9900P.35
3.0"	76.2mm	H-9900TP.30	H-9900P.30
2.5"	63.5mm	H-9900TP.25	H-9900P.25
2.25"	57.2mm	H-9900TP.22	H-9900P.22
2.0"	50.8mm	H-9900TP.20	H-9900P.20
1.75"	44.5mm	H-9900TP.75	H-9900P.75
1.5"	38.1mm	H-9900TP.15	H-9900P.15
1.375"	34.9mm	H-9900TP.37	H-9900P.37
1.25"	31.8mm	H-9900TP.12	H-9900P.12
1.0"	25.4mm	H-9900TP.10	H-9900P.10
.875"	22.2mm	H-9900TP.87	H-9900P.87
.75"	19.1mm	H-9900TP.75	H-9900P.75
.625"	15.9mm	H-9900TP.62	H-9900P.62
.5"	12.7mm	H-9900TP.50	H-9900P.50
.375"	9.5mm	H-9900TP.37	H-9900P.37
.312"	8.0mm	H-9900TP.31	H-9900P.31
.25"	6.4mm	H-9900TP.25	H-9900P.25
.187"	4.75mm	H-9900TP.18	H-9900P.18
.125"	3.2mm	H-9900TP.12	H-9900P.12

Round hole sizes are punched round hole openings in steel plate as used for coal testing (ASTM D4749) and other special materials. Non-ASTM sizes— 1/8" and 1/16"— are available, please inquire.

Sieves

sampling, classification and ASTM standard tests
in all popular sizes and configurations

U.S.A. Standard Sieve Sizes and Equivalents

Alternative Number	Nominal Opening	Standard (mm)
4"	4.000	100mm
3.5"	3.500	90mm
3"	3.000	75mm
2.5"	2.500	63mm
2.12"	2.120	53mm
2"	2.000	50mm
1.75"	1.750	45mm
1.5"	1.500	37.5mm
1.25"	1.250	31.5mm
1.06"	1.060	26.5mm
1"	1.000	25.0mm
.875"	0.875	22.4mm
.75"	0.750	19.0mm
.625"	0.625	16.0mm
.530"	0.530	13.2mm
.500"	0.500	12.5mm
.434"	0.434	11.2mm
.375"	0.375	9.5mm
.312"	0.312	8.0mm
.265"	0.265	6.7mm
.25"	0.250	6.3mm
.125"	0.125	3.17mm
No. 3-1/2	0.223	5.6mm
No. 4	0.187	4.75mm
No. 5	0.157	4.00mm
No. 6	0.131	3.35mm
No. 7	0.110	2.80mm
No. 8	0.094	2.36mm
No. 10	0.078	2.00mm
No. 12	0.066	1.70mm
No. 14	0.055	1.40mm
No. 16	0.046	1.18mm
No. 18	0.039	1.00mm
No. 20	0.033	850 μ
No. 25	0.027	710 μ
No. 30	0.023	600 μ
No. 35	0.019	50 μ
No. 40	0.016	425 μ
No. 45	0.013	355 μ
No. 50	0.011	300 μ
No. 60	0.009	250 μ
No. 70	0.008	212 μ
No. 80	0.007	180 μ
No. 100	0.005	150 μ
No. 120	0.0049	125 μ
No. 140	0.0041	106 μ
No. 170	0.0035	90 μ
No. 200	0.0029	75 μ
No. 230	0.0024	62 μ
No. 270	0.0020	53 μ
No. 32	0.0017	45 μ
No. 400	0.0014	38 μ
No. 450	0.0012	32 μ
No. 500	0.0009	25 μ
No. 635	0.0007	20 μ

U.S.A. Standard Sieve Series

Looking for sieves? Humboldt stocks an extensive offering of sieves for use in all types of sieve testing applications, from sampling and classification of soils, aggregates and other powdered and granular materials to specific ASTM standard tests. Humboldt carries an extensive inventory of sieves in all popular sizes and mesh/frame material configurations. We try to maintain a complete stock of 8" and 12" sieves in both full and half heights for quick turnaround, as well as keeping a large inventory of other sieve sizes and frame and mesh configurations.

Our sieves are of the highest quality to ensure consistent fit, accurate specifications and durable construction. All our sieves comply with ASTM E11 and AASHTO M92; and, are given individual serial numbers for traceability. Certified sieves are also available as an option, please inquire.

Humboldt sieves are available with brass frame and mesh, brass frame with stainless steel mesh or stainless frame and mesh. Brass sieves are cost efficient while stainless sieves tend to last longer and have sag-resistant mesh. Sieve frames are seamless spun brass or stainless steel with rigid rolled edges and extended bottoms (skirts) to ensure a good fit between frames, pans and separators of the same diameter; and ensuring that your set of sieves stacks properly.

All sieves include a permanently attached metal plate that includes the sieve number, micron size and the nominal opening in millimeters and inches. Sieve covers, bottom pans and separator pans are also in stock and ready for shipment.



**USA Standard
ASTM Test Sieves**

Sieves

200

Aggregate

8"
203mm



Coarse Sieve Size	Brass Frame Stainless Mesh		Stainless Frame Stainless Mesh	
	Full Height 2" (50mm)	Half Height 1" (25mm)	Full Height 2" (50mm)	Half Height 1" (25mm)
4" (100mm)	H-3920CS4.000	H-3910CS4.000	H-3920CSS4.000	H-3910CSS4.000
3-1/2" (90mm)	H-3920CS3.500	H-3910CS3.500	H-3920CSS3.500	H-3910CSS3.500
3" (75mm)	H-3920CS3.000	H-3910CS3.000	H-3920CSS3.000	H-3910CSS3.000
2-1/2" (63mm)	H-3920CS2.500	H-3910CS2.500	H-3920CSS2.500	H-3910CSS2.500
2.12" (53mm)	H-3920CS2.120	H-3910CS2.120	H-3920CSS2.120	H-3910CSS2.120
2" (50mm)	H-3920CS2.000	H-3910CS2.000	H-3920CSS2.000	H-3910CSS2.000
1-3/4" (45mm)	H-3920CS1.750	H-3910CS1.750	H-3920CSS1.750	H-3910CSS1.750
1-1/2" (37.5mm)	H-3920CS1.500	H-3910CS1.500	H-3920CSS1.500	H-3910CSS1.500
1-1/4" (31.5mm)	H-3920CS1.250	H-3910CS1.250	H-3920CSS1.250	H-3910CSS1.250
1.06" (26.5mm)	H-3920CS1.060	H-3910CS1.060	H-3920CSS1.060	H-3910CSS1.060
1" (25.0mm)	H-3920CS1.000	H-3910CS1.000	H-3920CSS1.000	H-3910CSS1.000
7/8" (22.4mm)	H-3920CS.875	H-3910CS.875	H-3920CSS.875	H-3910CSS.875
3/4" (19.0mm)	H-3920CS.750	H-3910CS.750	H-3920CSS.750	H-3910CSS.750
5/8" (16.0mm)	H-3920CS.625	H-3910CS.625	H-3920CSS.625	H-3910CSS.625
0.530" (13.2mm)	H-3920CS.530	H-3910CS.530	H-3920CSS.530	H-3910CSS.530
1/2" (12.5mm)	H-3920CS.500	H-3910CS.500	H-3920CSS.500	H-3910CSS.500
7/16" (11.2mm)	H-3920CS.438	H-3910CS.438	H-3920CSS.438	H-3910CSS.438
3/8" (9.5mm)	H-3920CS.375	H-3910CS.375	H-3920CSS.375	H-3910CSS.375
5/16" (8.0mm)	H-3920CS.312	H-3910CS.312	H-3920CSS.312	H-3910CSS.312
0.265" (6.7mm)	H-3920CS.265	H-3910CS.265	H-3920CSS.265	H-3910CSS.265
1/4" (6.3mm)	H-3920CS.250	H-3910CS.250	H-3920CSS.250	H-3910CSS.250
1/8" (3.17mm)	H-3920CS.125	H-3910CS.125	H-3920CSS.125	H-3910CSS.125

Fine Sieve Size	Brass Frame Stainless Mesh		Stainless Frame Stainless Mesh	
	Full Height 2" (50mm)	Half Height 1" (25mm)	Full Height 2" (50mm)	Half Height 1" (25mm)
No. 3-1/2 (5.6mm)	H-3920FS3-1/2	H-3910FS3-1/2	H-3920FSS3-1/2	H-3910FSS3-1/2
No. 4 (4.75mm)	H-3920FS4	H-3910FS4	H-3920FSS4	H-3910FSS4
No. 5 (4.0mm)	H-3920FS5	H-3910FS5	H-3920FSS5	H-3910FSS5
No. 6 (3.35mm)	H-3920FS6	H-3910FS6	H-3920FSS6	H-3910FSS6
No. 7 (2.80mm)	H-3920FS7	H-3910FS7	H-3920FSS7	H-3910FSS7
No. 8 (2.36mm)	H-3920FS8	H-3910FS8	H-3920FSS8	H-3910FSS8
No. 10 (2.00mm)	H-3920FS10	H-3910FS10	H-3920FSS10	H-3910FSS10
No. 12 (1.70mm)	H-3920FS12	H-3910FS12	H-3920FSS12	H-3910FSS12
No. 14 (1.40mm)	H-3920FS14	H-3910FS14	H-3920FSS14	H-3910FSS14
No. 16 (1.18mm)	H-3920FS16	H-3910FS16	H-3920FSS16	H-3910FSS16
No. 18 (1.0mm)	H-3920FS18	H-3910FS18	H-3920FSS18	H-3910FSS18
No. 20 (850μ)	H-3920FS20	H-3910FS20	H-3920FSS20	H-3910FSS20
No. 25 (710μ)	H-3920FS25	H-3910FS25	H-3920FSS25	H-3910FSS25
No. 30 (600μ)	H-3920FS30	H-3910FS30	H-3920FSS30	H-3910FSS30
No. 35 (500μ)	H-3920FS35	H-3910FS35	H-3920FSS35	H-3910FSS35
No. 40 (425μ)	H-3920FS40	H-3910FS40	H-3920FSS40	H-3910FSS40
No. 45 (355μ)	H-3920FS45	H-3910FS45	H-3920FSS45	H-3910FSS45
No. 50 (300μ)	H-3920FS50	H-3910FS50	H-3920FSS50	H-3910FSS50
No. 60 (250μ)	H-3920FS60	H-3910FS60	H-3920FSS60	H-3910FSS60
No. 70 (212μ)	H-3920FS70	H-3910FS70	H-3920FSS70	H-3910FSS70
No. 80 (180μ)	H-3920FS80	H-3910FS80	H-3920FSS80	H-3910FSS80
No. 100 (150μ)	H-3920FS100	H-3910FS100	H-3920FSS100	H-3910FSS100
No. 120 (125μ)	H-3920FS120	H-3910FS120	H-3920FSS120	H-3910FSS120
No. 140 (106μ)	H-3920FS140	H-3910FS140	H-3920FSS140	H-3910FSS140
No. 170 (90μ)	H-3920FS170	H-3910FS170	H-3920FSS170	H-3910FSS170
No. 200 (75μ)	H-3920FS200	H-3910FS200	H-3920FSS200	H-3910FSS200
No. 230 (63μ)	H-3920FS230	H-3910FS230	H-3920FSS230	H-3910FSS230
No. 270 (53μ)	H-3920FS270	H-3910FS270	H-3920FSS270	H-3910FSS270
No. 325 (45μ)	H-3920FS325	H-3910FS325	H-3920FSS325	H-3910FSS325
No. 400 (38μ)	H-3920FS400	H-3910FS400	H-3920FSS400	H-3910FSS400
No. 450 (32μ)	H-3920FS450	H-3910FS450	H-3920FSS450	H-3910FSS450
No. 500 (25μ)	H-3920FS500	H-3910FS500	H-3920FSS500	H-3910FSS500
No. 635 (20μ)	H-3920FS635	H-3910FS635	H-3920FSS635	H-3910FSS635
No. 850 (10μ)	H-3920FS850	H-3910FS850	-	-
No. 1000 (2μ)	H-3920FS1000	H-3910FS1000	-	-



USA Standard
ASTM Test Sieves

Coarse Sieve Size	Brass Frame Stainless Mesh			Stainless Frame Stainless Mesh	
	Full Height 3" (75mm)	Inter. Height 2" (50mm)	Half Height 1 5/8" (41mm)	Full Height 3" (75mm)	Half Height 1 5/8" (41mm)
4" (100mm)	H-3912CS4.000	H-3922CS4.000	H-3932CS4.000	H-3912CSS4.000	H-3932CSS4.000
3-1/2" (90mm)	H-3912CS3.500	H-3922CS3.500	H-3932CS3.500	H-3912CSS3.500	H-3932CSS3.500
3" (75mm)	H-3912CS3.000	H-3922CS3.000	H-3932CS3.000	H-3912CSS3.000	H-3932CSS3.000
2-1/2" (63mm)	H-3912CS2.500	H-3922CS2.500	H-3932CS2.500	H-3912CSS2.500	H-3932CSS2.500
2.12" (53mm)	H-3912CS2.120	H-3922CS2.120	H-3932CS2.120	H-3912CSS2.120	H-3932CSS2.120
2" (50mm)	H-3912CS2.000	H-3922CS2.000	H-3932CS2.000	H-3912CSS2.000	H-3932CSS2.000
1-3/4" (45mm)	H-3912CS1.750	H-3922CS1.750	H-3932CS1.750	H-3912CSS1.750	H-3932CSS1.750
1-1/2" (37.5mm)	H-3912CS1.500	H-3922CS1.500	H-3932CS1.500	H-3912CSS1.500	H-3932CSS1.500
1-1/4" (31.5mm)	H-3912CS1.250	H-3922CS1.250	H-3932CS1.250	H-3912CSS1.250	H-3932CSS1.250
1.06" (26.5mm)	H-3912CS1.060	H-3922CS1.060	H-3932CS1.060	H-3912CSS1.060	H-3932CSS1.060
1" (25.0mm)	H-3912CS1.000	H-3922CS1.000	H-3932CS1.000	H-3912CSS1.000	H-3932CSS1.000
7/8" (22.4mm)	H-3912CS.875	H-3922CS.875	H-3932CS.875	H-3912CSS.875	H-3932CSS.875
3/4" (19.0mm)	H-3912CS.750	H-3922CS.750	H-3932CS.750	H-3912CSS.750	H-3932CSS.750
5/8" (16.0mm)	H-3912CS.625	H-3922CS.625	H-3932CS.625	H-3912CSS.625	H-3932CSS.625
0.530" (13.2mm)	H-3912CS.530	H-3922CS.530	H-3932CS.530	H-3912CSS.530	H-3932CSS.530
1/2" (12.5mm)	H-3912CS.500	H-3922CS.500	H-3932CS.500	H-3912CSS.500	H-3932CSS.500
7/16" (11.2mm)	H-3912CS.438	H-3922CS.438	H-3932CS.438	H-3912CSS.438	H-3932CSS.438
3/8" (9.5mm)	H-3912CS.375	H-3922CS.375	H-3932CS.375	H-3912CSS.375	H-3932CSS.375
5/16" (8.0mm)	H-3912CS.312	H-3922CS.312	H-3932CS.312	H-3912CSS.312	H-3932CSS.312
0.265" (6.7mm)	H-3912CS.265	H-3922CS.265	H-3932CS.265	H-3912CSS.265	H-3932CSS.265
1/4" (6.3mm)	H-3912CS.250	H-3922CS.250	H-3932CS.250	H-3912CSS.250	H-3932CSS.250
1/8" (3.17mm)	H-3912CS.125	H-3922CS.125	H-3932CS.125	-	H-3932CSS.125



Sieves

201

12"
305mm

Aggregate

Fine Sieve Size	Brass Frame Stainless Mesh			Stainless Frame Stainless Mesh	
	Full Height 3" (75mm)	Inter. Height 2" (50mm)	Half Height 1 5/8" (41mm)	Full Height 3" (75mm)	Half Height 1 5/8" (41mm)
No. 3-1/2 (5.6mm)	H-3912FS3-1/2	H-3922FS3-1/2	H-3932FS3-1/2	H-3912FSS3-1/2	H-3932FSS3-1/2
No. 4 (4.75mm)	H-3912FS4	H-3922FS4	H-3932FS4	H-3912FSS4	H-3932FSS4
No. 5 (4.0mm)	H-3912FS5	H-3922FS5	H-3932FS5	H-3912FSS5	H-3932FSS5
No. 6 (3.35mm)	H-3912FS6	H-3922FS6	H-3932FS6	H-3912FSS6	H-3932FSS6
No. 7 (2.80mm)	H-3912FS7	H-3922FS7	H-3932FS7	H-3912FSS7	H-3932FSS7
No. 8 (2.36mm)	H-3912FS8	H-3922FS8	H-3932FS8	H-3912FSS8	H-3932FSS8
No. 10 (2.00mm)	H-3912FS10	H-3922FS10	H-3932FS10	H-3912FSS10	H-3932FSS10
No. 12 (1.70mm)	H-3912FS12	H-3922FS12	H-3932FS12	H-3912FSS12	H-3932FSS12
No. 14 (1.40mm)	H-3912FS14	H-3922FS14	H-3932FS14	H-3912FSS14	H-3932FSS14
No. 16 (1.18mm)	H-3912FS16	H-3922FS16	H-3932FS16	H-3912FSS16	H-3932FSS16
No. 18 (1.0mm)	H-3912FS18	H-3922FS18	H-3932FS18	H-3912FSS18	H-3932FSS18
No. 20 (850µ)	H-3912FS20	H-3922FS20	H-3932FS20	H-3912FSS20	H-3932FSS20
No. 25 (710µ)	H-3912FS25	H-3922FS25	H-3932FS25	H-3912FSS25	H-3932FSS25
No. 30 (600µ)	H-3912FS30	H-3922FS30	H-3932FS30	H-3912FSS30	H-3932FSS30
No. 35 (500µ)	H-3912FS35	H-3922FS35	H-3932FS35	H-3912FSS35	H-3932FSS35
No. 40 (425µ)	H-3912FS40	H-3922FS40	H-3932FS40	H-3912FSS40	H-3932FSS40
No. 45 (355µ)	H-3912FS45	H-3922FS45	H-3932FS45	H-3912FSS45	H-3932FSS45
No. 50 (300µ)	H-3912FS50	H-3922FS50	H-3932FS50	H-3912FSS50	H-3932FSS50
No. 60 (250µ)	H-3912FS60	H-3922FS60	H-3932FS60	H-3912FSS60	H-3932FSS60
No. 70 (212µ)	H-3912FS70	H-3922FS70	H-3932FS70	H-3912FSS70	H-3932FSS70
No. 80 (180µ)	H-3912FS80	H-3922FS80	H-3932FS80	H-3912FSS80	H-3932FSS80
No. 100 (150µ)	H-3912FS100	H-3922FS100	H-3932FS100	H-3912FSS100	H-3932FSS100
No. 120 (125µ)	H-3912FS120	H-3922FS120	H-3932FS120	H-3912FSS120	H-3932FSS120
No. 140 (106µ)	H-3912FS140	H-3922FS140	H-3932FS140	H-3912FSS140	H-3932FSS140
No. 170 (90µ)	H-3912FS170	H-3922FS170	H-3932FS170	H-3912FSS170	H-3932FSS170
No. 200 (75µ)	H-3912FS200	H-3922FS200	H-3932FS200	H-3912FSS200	H-3932FSS200
No. 230 (63µ)	H-3912FS230	H-3922FS230	H-3932FS230	H-3912FSS230	H-3932FSS230
No. 270 (53µ)	H-3912FS270	H-3922FS270	H-3932FS270	H-3912FSS270	H-3932FSS270
No. 325 (45µ)	H-3912FS325	H-3922FS325	H-3932FS325	H-3912FSS325	H-3932FSS325
No. 400 (38µ)	H-3912FS400	H-3922FS400	H-3932FS400	H-3912FSS400	H-3932FSS400
No. 450 (32µ)	H-3912FS450	H-3922FS450	H-3932FS450	H-3912FSS450	H-3932FSS450
No. 500 (25µ)	H-3912FS500	H-3922FS500	H-3932FS500	H-3912FSS500	H-3932FSS500
No. 635 (20µ)	H-3912FS635	H-3922FS635	H-3932FS635	H-3912FSS635	H-3932FSS635
No. 850 (10µ)	H-3912FS850	H-3922FS850	H-3932FS850	-	-
No. 1000 (2µ)	H-3912FS1000	H-3922FS1000	H-3932FS1000	-	-



**USA Standard
ASTM Test Sieves**



Sieves

202

Aggregate

4"
101mm

12"
305mm

Coarse Sieve Size	4" Diameter		12" Diameter	
	Brass Frame, Stainless Mesh		Brass Frame, Stainless Mesh	
	1-1/2" Deep	4" Deep	4" Deep	8" Deep
4" (100mm)	-	-	H-3928CS4.000	H-3938CS4.000
3-1/2" (90mm)	-	-	H-3928CS3.500	H-3938CS3.500
3" (75mm)	-	-	H-3928CS3.000	H-3938CS3.000
2-1/2" (63mm)	-	-	H-3928CS2.500	H-3938CS2.500
2.12" (53mm)	-	-	H-3928CS2.120	H-3938CS2.120
2" (50mm)	-	-	H-3928CS2.000	H-3938CS2.000
1-3/4" (45mm)	-	-	H-3928CS1.750	H-3938CS1.750
1-1/2" (37.5mm)	-	-	H-3928CS1.500	H-3938CS1.500
1-1/4" (31.5mm)	-	-	H-3928CS1.250	H-3938CS1.250
1.06" (26.5mm)	-	-	H-3928CS1.060	H-3938CS1.060
1" (25.0mm)	H-3914CS1.000	H-3924CS1.000	H-3928CS1.000	H-3938CS1.000
7/8" (22.4mm)	H-3914CS.875	H-3924CS.875	H-3928CS.875	H-3938CS.875
3/4" (19.0mm)	H-3914CS.750	H-3924CS.750	H-3928CS.750	H-3910CSS.750
5/8" (16.0mm)	H-3914CS.625	H-3924CS.625	H-3928CS.625	H-3938CS.625
0.530" (13.2mm)	H-3914CS.530	H-3924CS.530	H-3928CS.530	H-3938CS.530
1/2" (12.5mm)	H-3914CS.500	H-3924CS.500	H-3928CS.500	H-3938CS.500
7/16" (11.2mm)	H-3914CS.438	H-3924CS.438	H-3928CS.438	H-3938CS.438
3/8" (9.5mm)	H-3914CS.375	H-3924CS.375	H-3928CS.375	H-3938CS.375
5/16" (8.0mm)	H-3914CS.312	H-3924CS.312	H-3928CS.312	H-3938CS.312
0.265" (6.7mm)	H-3914CS.265	H-3924CS.265	H-3928CS.265	H-3938CS.265
1/4" (6.3mm)	H-3914CS.250	H-3924CS.250	H-3928CS.250	H-3938CS.250
1/8" (3.17mm)	H-3914CS.125	H-3924CS.125	H-3928CS.125	H-3938CS.125

Fine Sieve Size	4" Diameter		12" Diameter	
	Brass Frame, Stainless Mesh		Brass Frame, Stainless Mesh	
	1-1/2" Deep	4" Deep	4" Deep	8" Deep
No. 3-1/2 (5.6mm)	H-3914FS3-1/2	H-3924FS3-1/2	H-3928FS3-1/2	H-3938FS3-1/2
No. 4 (4.75mm)	H-3914FS4	H-3924FS4	H-3928FS4	H-3938FS4
No. 5 (4.0mm)	H-3914FS5	H-3924FS5	H-3928FS5	H-3938FS5
No. 6 (3.35mm)	H-3914FS6	H-3924FS6	H-3928FS6	H-3938FS6
No. 7 (2.80mm)	H-3914FS7	H-3924FS7	H-3928FS7	H-3938FS7
No. 8 (2.36mm)	H-3914FS8	H-3924FS8	H-3928FS8	H-3938FS8
No. 10 (2.00mm)	H-3914FS10	H-3924FS10	H-3928FS10	H-3938FS10
No. 12 (1.70mm)	H-3914FS12	H-3924FS12	H-3928FS12	H-3938FS12
No. 14 (1.40mm)	H-3914FS14	H-3924FS14	H-3928FS14	H-3938FS14
No. 16 (1.18mm)	H-3914FS16	H-3924FS16	H-3928FS16	H-3938FS16
No. 18 (1.0mm)	H-3914FS18	H-3924FS18	H-3928FS18	H-3938FS18
No. 20 (850µ)	H-3914FS20	H-3924FS20	H-3928FS20	H-3938FS20
No. 25 (710µ)	H-3914FS25	H-3924FS25	H-3928FS25	H-3938FS25
No. 30 (600µ)	H-3914FS30	H-3924FS30	H-3928FS30	H-3938FS30
No. 35 (500µ)	H-3914FS35	H-3924FS35	H-3928FS35	H-3938FS35
No. 40 (425µ)	H-3914FS40	H-3924FS40	H-3928FS40	H-3938FS40
No. 45 (355µ)	H-3914FS45	H-3924FS45	H-3928FS45	H-3938FS45
No. 50 (300µ)	H-3914FS50	H-3924FS50	H-3928FS50	H-3938FS50
No. 60 (250µ)	H-3914FS60	H-3924FS60	H-3928FS60	H-3938FS60
No. 70 (212µ)	H-3914FS70	H-3924FS70	H-3928FS70	H-3938FS70
No. 80 (180µ)	H-3914FS80	H-3924FS80	H-3928FS80	H-3938FS80
No. 100 (150µ)	H-3914FS100	H-3924FS100	H-3928FS100	H-3938FS100
No. 120 (125µ)	H-3914FS120	H-3924FS120	H-3928FS120	H-3938FS120
No. 140 (106µ)	H-3914FS140	H-3924FS140	H-3928FS140	H-3938FS140
No. 170 (90µ)	H-3914FS170	H-3924FS170	H-3928FS170	H-3938FS170
No. 200 (75µ)	H-3914FS200	H-3924FS200	H-3928FS200	H-3938FS200
No. 230 (63µ)	H-3914FS230	H-3924FS230	H-3928FS230	H-3938FS230
No. 270 (53µ)	H-3914FS270	H-3924FS270	H-3928FS270	H-3938FS270
No. 325 (45µ)	H-3914FS325	H-3924FS325	H-3928FS325	H-3938FS325
No. 400 (38µ)	H-3914FS400	H-3924FS400	H-3928FS400	H-3938FS400
No. 450 (32µ)	H-3914FS450	H-3924FS450	H-3928FS450	H-3938FS450
No. 500 (25µ)	H-3914FS500	H-3924FS500	H-3928FS500	H-3938FS500
No. 635 (20µ)	H-3914FS635	H-3924FS635	H-3928FS635	H-3938FS635
No. 850 (10µ)	H-3914FS850	H-3924FS850	H-3928FS850	H-3938FS850
No. 1000 (2µ)	H-3914FS1000	H-3924FS1000	H-3928FS1000	H-3938FS1000



USA Standard
ASTM Test Sieves

Coarse Sieve Size	Brass Frame, Stainless Mesh			
	3" Diameter 1" Deep	5" Diameter 1-1/2" Deep	6" Diameter 1-1/2" Deep	10" Diameter 3" Deep
4" (100mm)	-	-	-	H-3919CS4.000
3-1/2" (90mm)	-	-	-	H-3919CS3.500
3" (75mm)	-	-	-	H-3919CS3.000
2-1/2" (63mm)	-	-	-	H-3919CS2.500
2.12" (53mm)	-	-	-	H-3919CS2.120
2" (50mm)	-	-	-	H-3919CS2.000
1-3/4" (45mm)	-	-	-	H-3919CS1.750
1-1/2" (37.5mm)	-	-	-	H-3919CS1.500
1-1/4" (31.5mm)	-	-	-	H-3919CS1.250
1.06" (26.5mm)	-	-	-	H-3919CS1.060
1" (25.0mm)	H-3913CS1.000	H-3915CS1.000	H-3916CS1.000	H-3919CS1.000
7/8" (22.4mm)	H-3913CS.875	H-3915CS.875	H-3916CS.875	H-3919CS.875
3/4" (19.0mm)	H-3913CS.750	H-3915CS.750	H-3916CS.750	H-3919CS.750
5/8" (16.0mm)	H-3913CS.625	H-3915CS.625	H-3916CS.625	H-3919CS.625
0.530" (13.2mm)	H-3913CS.530	H-3915CS.530	H-3916CS.530	H-3919CS.530
1/2" (12.5mm)	H-3913CS.500	H-3915CS.500	H-3916CS.500	H-3919CS.500
7/16" (11.2mm)	H-3913CS.438	H-3915CS.438	H-3916CS.438	H-3919CS.438
3/8" (9.5mm)	H-3913CS.375	H-3915CS.375	H-3916CS.375	H-3919CS.375
5/16" (8.0mm)	H-3913CS.312	H-3915CS.312	H-3916CS.312	H-3919CS.312
0.265" (6.7mm)	H-3913CS.265	H-3915CS.265	H-3916CS.265	H-3919CS.265
1/4" (6.3mm)	H-3913CS.250	H-3915CS.250	H-3916CS.250	H-3919CS.250
1/8" (3.17mm)	H-3913CS.125	H-3915CS.125	H-3916CS.125	H-3919CS.125



Sieves
203
Aggregate

3" 5" 6" 10"
76mm 127mm 152mm 254mm

Fine Sieve Size	Brass Frame, Stainless Mesh			
	3" Diameter 1" Deep	5" Diameter 1-1/2" Deep	6" Diameter 1-1/2" Deep	10" Diameter 3" Deep
No. 3-1/2 (5.6mm)	H-3913FS3-1/2	H-3915FS3-1/2	H-3916FS3-1/2	H-3919FS3-1/2
No. 4 (4.75mm)	H-3913FS4	H-3915FS4	H-3916FS4	H-3919FS4
No. 5 (4.0mm)	H-3913FS5	H-3915FS5	H-3916FS5	H-3919FS5
No. 6 (3.35mm)	H-3913FS6	H-3915FS6	H-3916FS6	H-3919FS6
No. 7 (2.80mm)	H-3913FS7	H-3915FS7	H-3916FS7	H-3919FS7
No. 8 (2.36mm)	H-3913FS8	H-3915FS8	H-3916FS8	H-3919FS8
No. 10 (2.00mm)	H-3913FS10	H-3915FS10	H-3916FS10	H-3919FS10
No. 12 (1.70mm)	H-3913FS12	H-3915FS12	H-3916FS12	H-3919FS12
No. 14 (1.40mm)	H-3913FS14	H-3915FS14	H-3916FS14	H-3919FS14
No. 16 (1.18mm)	H-3913FS16	H-3915FS16	H-3916FS16	H-3919FS16
No. 18 (1.0mm)	H-3913FS18	H-3915FS18	H-3916FS18	H-3919FS18
No. 20 (850μ)	H-3913FS20	H-3915FS20	H-3916FS20	H-3919FS20
No. 25 (710μ)	H-3913FS25	H-3915FS25	H-3916FS25	H-3919FS25
No. 30 (600μ)	H-3913FS20	H-3915FS20	H-3916FS20	H-3919FS20
No. 35 (500μ)	H-3913FS35	H-3915FS35	H-3916FS35	H-3919FS35
No. 40 (425μ)	H-3913FS40	H-3915FS40	H-3916FS40	H-3919FS40
No. 45 (355μ)	H-3913FS45	H-3915FS45	H-3916FS45	H-3919FS45
No. 50 (300μ)	H-3913FS50	H-3915FS50	H-3916FS50	H-3919FS50
No. 60 (250μ)	H-3913FS60	H-3915FS60	H-3916FS60	H-3919FS60
No. 70 (212μ)	H-3913FS70	H-3915FS70	H-3916FS70	H-3919FS70
No. 80 (180μ)	H-3913FS80	H-3915FS80	H-3916FS80	H-3919FS80
No. 100 (150μ)	H-3913FS100	H-3915FS100	H-3916FS100	H-3919FS100
No. 120 (125μ)	H-3913FS120	H-3915FS120	H-3916FS120	H-3919FS120
No. 140 (106μ)	H-3913FS140	H-3915FS140	H-3916FS140	H-3919FS140
No. 170 (90μ)	H-3913FS170	H-3915FS170	H-3916FS170	H-3919FS170
No. 200 (75μ)	H-3913FS200	H-3915FS200	H-3916FS200	H-3919FS200
No. 230 (63μ)	H-3913FS230	H-3915FS230	H-3916FS230	H-3919FS230
No. 270 (53μ)	H-3913FS270	H-3915FS270	H-3916FS270	H-3919FS270
No. 325 (45μ)	H-3913FS325	H-3915FS325	H-3916FS325	H-3919FS325
No. 400 (38μ)	H-3913FS400	H-3915FS400	H-3916FS400	H-3919FS400
No. 450 (32μ)	H-3913FS450	H-3915FS450	H-3916FS450	H-3919FS450
No. 500 (25μ)	H-3913FS500	H-3915FS500	H-3916FS500	H-3919FS500
No. 635 (20μ)	H-3913FS635	H-3915FS635	H-3916FS635	H-3919FS635
No. 850 (10μ)	H-3913FS850	H-3915FS850	H-3916FS850	H-3919FS850
No. 1000 (2μ)	H-3913FS1000	H-3915FS1000	H-3916FS1000	H-3919FS1000



Metric Test Sieves

Sieves, Metric

204

Aggregate



200mm



Coarse Sieve Size	Brass Frame Stainless Mesh	
	Full Height 50mm	Half Height 25mm
100mm	H-3934CS.100	H-3936CS.100
90mm	H-3934CS.090	H-3936CS.090
75mm	H-3934CS.075	H-3936CS.075
63mm	H-3934CS.063	H-3936CS.063
53mm	H-3934CS.053	H-3936CS.053
50mm	H-3934CS.050	H-3936CS.050
45mm	H-3934CS.045	H-3936CS.045
37.5mm	H-3934CS.0375	H-3936CS.0375
31.5mm	H-3934CS.0315	H-3936CS.0315
26.5mm	H-3934CS.0265	H-3936CS.0265
25.0mm	H-3934CS.025	H-3936CS.025
22.4mm	H-3934CS.0224	H-3936CS.0224
19.0mm	H-3934CS.019	H-3936CS.019
16.0mm	H-3934CS.016	H-3936CS.016
13.2mm	H-3934CS.0132	H-3936CS.0132
12.5mm	H-3934CS.0125	H-3936CS.0125
11.2mm	H-3934CS.0112	H-3936CS.0112
9.5mm	H-3934CS.0095	H-3936CS.0095
8.0mm	H-3934CS.008	H-3936CS.008
6.7mm	H-3934CS.0067	H-3936CS.0067
6.3mm	H-3934CS.0063	H-3936CS.0063
5.6mm	H-3934CS0056	H-3936CS0056

Fine Sieve Size	Brass Frame Stainless Mesh	
	Full Height 3" (75mm)	Half Height 1 5/8" (41mm)
5.0mm	H-3934FS.05	H-3936FS.05
4.75mm	H-3934FS.0475	H-3936FS.0475
4.0mm	H-3934FS.04	H-3936FS.04
3.35mm	H-3934FS.0335	H-3936FS.0335
2.80mm	H-3934FS.028	H-3936FS.028
2.36mm	H-3934FS.0236	H-3936FS.0236
2.00mm	H-3934FS.02	H-3936FS.02
1.70mm	H-3934FS.017	H-3936FS.017
1.40mm	H-3934FS.014	H-3936FS.014
1.18mm	H-3934FS0118	H-3936FS.0118
1.0mm	H-3934FS.01	H-3936FS.01
850μ	H-3934FS.850	H-3936FS.850
710μ	H-3934FS.710	H-3936FS.710
600μ	H-3934FS.600	H-3936FS.600
500μ	H-3934FS.500	H-3936FS.500
425μ	H-3934FS.425	H-3936FS.425
355μ	H-3934FS.355	H-3936FS.355
300μ	H-3934FS.300	H-3936FS.300
250μ	H-3934FS.250	H-3936FS.250
212μ	H-3934FS.212	H-3936FS.212
180μ	H-3934FS.180	H-3936FS.180
150μ	H-3934FS.150	H-3936FS.150
125μ	H-3934FS.125	H-3936FS.125
106μ	H-3934FS.106	H-3936FS.106
80μ	H-3934FS.80	H-3936FS.80
75μ	H-3934FS.75	H-3936FS.75
63μ	H-3934FS.63	H-3936FS.63
53μ	H-3934FS.53	H-3936FS.53
45μ	H-3934FS.45	H-3936FS.45
38μ	H-3934FS.38	H-3936FS.38



H-2813



H-3772

H-3774

H-3773

H-3770

H-3799

Larger Brushes on Page 261

Sieve Covers with Ring Handle

Description	Brass	Stainless
3" Dia. Sieve Cover	H-3913BC	H-3913SC
4" Dia. Sieve Cover	H-3914BC	—
5" Dia. Sieve Cover	H-3915BC	—
6" Dia. Sieve Cover	H-3916BC	—
8" Dia. Sieve Cover	H-3930BC	H-3930SC
10" Dia. Sieve Cover	H-3919BC	—
12" Dia. Sieve Cover	H-3912BC	H-3912SC
200mm Sieve Cover	H-3950BC	H-3934BC

Bottom Sieve Pans

Description	Brass	Stainless
3" Dia., 5/8" (17mm) deep	H-3913HP	H-3913SS
3" Dia., 1" (25mm) deep	H-3913P	—
4" Dia., 1-1/2" (38mm) deep	H-3914P	—
5" Dia., 1" (25mm) deep	H-3915P	—
6" Dia., 1-5/8" (43mm) deep	H-3916P	—
8" Dia., 1" (25mm) deep	H-3960P	H-3960SS
8" Dia., 2" (51mm) deep	H-3950P	H-3950SS
10" Dia., 2" (51mm) deep	H-3950P	—
12" Dia., 1" (25mm) deep	H-3950P	H-3932PSS
12" Dia., 2" (51mm) deep	H-3950P	—
12" Dia., 3" (75mm) deep	H-3950P	H-3912SS
200mm Dia., 25mm deep	H-3950P	H-3936P
200mm Dia., 51mm deep	H-3951P	H-3934P

Magnifying Comparator— H-2813

The magnifying Comparator is ideal for use in examining sieve mesh for size verification, as well as general inspection for damage. The instrument is supplied complete with four interchangeable scales:

- #121— .5 x .005" Ruler line scale
- #122— 15 x .1mm Ruler line scale
- #172— .5 x 0.1" Parallel line scale
- #173— 1/2 x 1/64" Parallel line scale

Sieve Brush, coarse mesh— H-3772

Wire, wire loop handle; 1-1/2" x 3/4" x 1/8" (38 x 19 x 3mm), 5-1/2" (140mm) overall length.

Separator Pans

Description	Brass	Stainless
3" Dia., 1" (25mm) deep	H-3913SP	—
3" Dia., 3" (75mm) deep	H-3913DSP	—
4" Dia., 1-1/2" (38mm) deep	H-3914SP	—
4" Dia., 4" (102mm) deep	H-3924SP	—
5" Dia., 1" (25mm) deep	H-3915SP	—
6" Dia., 1-5/8" (43mm) deep	H-3916SP	—
8" Dia., 1" (25mm) deep	H-3955SP	H-3955SS
8" Dia., 2" (51mm) deep	H-3956SP	H-3956SS
8" Dia., 4" (102mm) deep	H-3945SP	—
8" Dia., 6" (152mm) deep	H-3946SP	—
8" Dia., 8" (203mm) deep	H-3947SP	—
10" Dia., 8" (203mm) deep	H-3919SP	—
12" Dia., 1" (25mm) deep	H-3932SP	H-3932SSP
12" Dia., 2" (51mm) deep	H-3922SP	H-3922PSS
12" Dia., 3.25" (83mm) deep	H-3912SP	H-3912SSP
12" Dia., 4" (102mm) deep	H-3928SP	—
12" Dia., 6" (152mm) deep	H-3929SP	—
12" Dia., 8" (203mm) deep	H-3938SP	—
200mm Dia., 25mm deep	H-3950SP	H-3936SP
200mm Dia., 51mm deep	H-3951SP	H-3934SP
200mm Dia., 102mm deep	H-3952SP	H-3938SP
200mm Dia., 152mm deep	H-3953SP	H-3939SP

Sieve Brush, fine mesh— H-3774

Horsehair, wood handle; 1-1/2" x 1-1/4" dia. (38 x 32mm), 5-1/4" (133mm) overall length.

Sieve Brush, fine mesh— H-3773

Wire, plastic handle; 1-1/2" x 1-1/4" dia. (38 x 32mm), 5-1/4" (133mm) overall length.

Sieve Brush, fine mesh— H-3770

Horsehair, wood handle; 2-1/2" x 1" x 3/8" (64 x 25 x 10mm), 10-1/2" (267mm) overall length.

Sieve Brush, oval shape— H-3799

Horsehair, wood handle; 2-3/4" x 1-1/8" x 3/4" (70 x 29 x 19mm), 10-1/2" (267mm) overall length.



H-4326



H-4325



H-4330



H-4310



H-4315A

Sieve Shaker for 3" Sieves, 120V 60Hz— H-4326**Sieve Shaker for 3" Sieves, 220V 50Hz— H-4326.5F**

Small, simple shaker for use with 3" sieves. Unit vibrates at 2000 vpm and creates a cyclonic effect, which produces a sieving action. Will accommodate up to 6 sieves and uses a 1/20 Hp motor. Includes 3-wire plug for 115V 50/60 operation. Ship wt. 6 lb (2.7kg)

Humboldt Motorized Sieve Shaker, 120V 60Hz—H-4325**Humboldt Motorized Sieve Shaker, 220V 60Hz—H-4325.2F****Humboldt Motorized Sieve Shaker, 220V 50Hz—H-4325.5F**

Economy Sieve Shaker, which complies with ASTM C136 Standards, the Humboldt Motorized Sieve Shaker can be used with 3", 5" and 8" sieves. 1/4 HP motor handles up to (10) 8" sieves, (12) 5" sieves and (16) 3" full-height sieves; and, (18) half-height 8" sieves. 1/4 HP motor, 115V, 60Hz with 30 minute timer. Mounting is required. Dimensions 15w x 15d x 45h" (380 x 380 x 1143mm). Ship wt. 65lb (29.5kg).

Humboldt Motorized Sieve Shaker, 120V 60Hz— H-4330**Humboldt Motorized Sieve Shaker, 220V 60Hz— H-4330.2F****Humboldt Motorized Sieve Shaker, 220V 50Hz— H-4330.5F**

Economy Sieve Shaker, which complies with ASTM C136 Standards, the Humboldt Motorized Sieve Shaker can be used with 8", 10" and 12" sieves. 1/4 HP motor handles up to (11) 8" sieves, (7) 10" sieves and (7) 12" full-height sieves; and, (19) half-height 8" sieves, (13) half-height 12" sieves. 1/4 HP motor, 115V, 60Hz with 30 minute timer. Mounting is required. ASTM C136. Dimensions 21w x 18d x 47h" (533 x 4570 x 1194mm) Ship wt. 85 lbs (38.5kg).

Hand-Operated Sieve Shaker— H-4310

Identical to Model H-4325 except that it uses a hand crank instead of a motor for operation. Shipping wt. 49 lbs (22 Kg).

Mary Ann® Sieve Sifter, 120V 60Hz— H-4315A**Mary Ann® Sieve Sifter, 230V 50Hz— H-4315A.5F**

The "Original Mary Ann" Sieve sifter has been a standard of the industry for years. This totally enclosed unit can be used with 8" or 12" sieves. Sieve stacks up to 26" in height can be set into place quickly. The Mary Ann design angles the sieves at 45° while rotation from 1/3hp motor and tapping from hardwood-faced aluminum hammers promote action to accomplish the sieving process. Dimensions: 18 x 26 x 58" (457 x 660 x 1473mm). Ship wt. 140 lbs. (64kg).

Rotary Lab Sieve Sifter, 120V 60Hz— H-4312**Rotary Lab Sieve Sifter, 220V 50/60Hz— H-4312.4F**

The Rotary Lab Sieve Sifter borrows its design from the Mary Ann Sieve Sifter. Like the Mary Ann it is a totally enclosed unit, which can be used with 8" or 12" sieves. Sieve stack capacity is six full-height (3") 12" sieves with a bottom pan. Unit timing is controlled by a digital count-down controller with a large red LED display. Operation can be set from 1 to 99 minutes. Settings can be saved between tests to speed operation and provide repeatability of tests. Dimensions: 19 x 24 x 58" (483 x 610 x 1473mm). Ship wt. 215 lbs. (98kg).

Meinzer II Sieve Shaker, 120V 60Hz— H-4323

This maintenance free, lightweight and portable vibrating shaker provides precise repeatable results time after time. By utilizing an electromagnetic drive, a fixed amplitude and rubber spring mounts, this unit produces the simultaneous vertical and horizontal movement needed for basic dry particle sizing analysis. This sieve shaker can handle 8" (8-full height/15 half-height) sieves, as well as 3" (12-full height/23 half-height) sieves. Comes with a 60 minute mechanical timer. This unit is ideal for use with sands, cements, chemicals, powder metals, cosmetics, grains, seeds, coal, soils, coffee, pharmaceuticals, tobacco, and many other dry components in ground, granular or powder form.

Ro-Tap® Sieve Shaker, 120V 60Hz— H-4320**Ro-Tap® Sieve Shaker, 220V 60Hz— H-4320.2F****Ro-Tap® Sieve Shaker, 230V 50Hz— H-4320.5F**

The Ro-Tap Sieve Shaker provides a compact design and aggressive sieving action. This shaker provides 278 oscillations and 150 taps per minute to produce an effective sieving action. It is powered by a 1/4 hp motor and provides a built-in 99 minute step-down timer. Unit holds up to six, 8" full-height (2") sieves, plus a full-height pan. Dimensions: 28 x 21 x 25" (711 x 533 x 635mm). Ship wt. 190 lbs. (86kg).

Ro-Tap® Sieve Shaker, 120V 60Hz— H-4322**Ro-Tap® Sieve Shaker, 220V 60Hz— H-4322.2F****Ro-Tap® Sieve Shaker, 230V 50Hz— H-4322.5F**

The Ro-Tap Sieve Shaker provides a compact design and aggressive sieving action. This shaker provides 278 oscillations and 150 taps per minute to produce an effective sieving action. It is powered by a 1/4 hp motor and provides a built-in 99 minute step-down timer. Unit holds up to six, 12" intermediate-height (2") sieves, plus a pan. Dimensions: 28 x 21 x 25" (711 x 533 x 635mm). Ship wt. 190 lbs. (86kg).

8" Sieve Adapter for 12" Ro-Tap® Sieve Shaker— H-4322.8

Adapter to accommodate 8" sieves on the H-4322 Sieve Shaker.



H-4312



H-4323



H-4320



H-4321, H-4327

Dura Tap™, Motorized Sieve Shaker, 120V 60Hz— H-4321

Dura Tap™, Motorized Sieve Shaker, 220V 60Hz—H-4321.2F

Dura Tap™, Motorized Sieve Shaker, 220V 50Hz—H-4321.5F

Designed for use with 8" sieves, this industrial-strength Sieve Shaker is engineered with rugged steel and alloy materials ready to withstand everyday, harsh duty cycles. Grease fittings are provided to ensure longer life for your bearings, and each unit is "burned in" by continuously running it for over 4 hours, guaranteeing performance right out of the box. Unit holds 6 full-height 8" sieves, plus one pan and cover or 14 half-height sieves, plus one pan and cover. Uses a vertically-mounted, enclosed 1/4 hp electric motor and a built-in digital timer (+/- 2 seconds over 24 hours). Dimensions: 28 x 21 x 25" (711 x 533 x 635 mm). Ship wt. 225 lb (102kg).

Dura Tap™, Motorized Sieve Shaker, 120V 60Hz— H-4327

Dura Tap™, Motorized Sieve Shaker, 220V 60Hz—H-4327.2F

Dura Tap™, Motorized Sieve Shaker, 220V 50Hz—H-4327.5F

Designed for use with 12" sieves, this industrial-strength Sieve Shaker is engineered with rugged steel and alloy materials ready to withstand everyday, harsh duty cycles. Grease fittings are provided to ensure longer life for your bearings, and each unit is "burned in" by continuously running it for over 4 hours, guaranteeing performance right out of the box. Unit holds 4 full-height 12" sieves, plus one pan and cover or 8 half-height sieves, plus one pan and cover. Uses a vertically-mounted, enclosed 1/4 hp electric motor and a built-in digital timer (+/- 2 seconds over 24 hours). Dimensions: 28 x 21 x 25" (711 x 533 x 635 mm). Ship wt. 225 lb (102kg).

Motorized Sieve Shakers Use the chart below to check and compare specifications between the various Sieve Shakers.

Description	Model	Sieve Dia.		Sieve Capacity*			ASTM	Timer minutes	Mounting	Motor HP	Dimensions W D H	Ship Wt. lbs. (kg)
		in.	mm	full	inter.	half						
8" Motorized Sieve Shaker	H-4325	3	76	16			C136	30	Yes	1/4	15 x 15 x 45" (381 x 381 x 1143mm)	65 (29.5)
		5	127	12								
		8	203	10		18						
12" Motorized Sieve Shaker	H-4330	8	203	11		19	C136	30	Yes	1/4	21 x 18 x 47" (533 x 457 x 1194mm)	85 (38.5)
		10	254	7								
		12	305	7	11	13						
8" Hand Sieve Shaker	H-4310	3	76	16			C136	30	Yes	1/4	15 x 15 x 45" (381 x 381 x 1143mm)	49 (22)
		5	127	12								
		8	203	10		18						
Mary Ann Sieve Sifter	H-4315A	8	203	10			C136	99 Digital	No	1/3	13 x 35 x 45" (330 x 889 x 1143mm)	140 (63.5)
		12	305	6								
Rotary Lab Sieve Sifter	H-4312	8	203	10		20	C136	99 Digital	No	1/3	19 x 24 x 58" (483 x 610 x 1473mm)	215 (98)
		12	305	6								
Meinzer II	H-4323	8	203	8		15	C136	60	No	†	10 x 10 x 7 (254 x 254 x 178mm)	36 (16.3)
Dura-Tap™ Sieve Shaker	H-4321	8	203	7		14	C136	24 hr. Digital	No	1/4	28 x 21 x 25" (711 x 533 x 635mm)	225 (102)
Dura-Tap™ Sieve Shaker	H-4327	12	203	4	7	8	C136	24 hr. Digital	No	1/4	28 x 21 x 25" (711 x 533 x 635mm)	225 (102)
Ro-Tap® Sieve Shaker	H-4320	8	203	6		13	C136	99 Digital	No	1/4	28 x 21 x 25" (711 x 533 x 635mm)	109 (86)
Ro-Tap® Sieve Shaker	H-4322	12	305	4		6	C136	99 Digital	No	1/4	28 x 21 x 25" (711 x 533 x 635mm)	190 (86)

* includes top cover and pan
† electromagnetic drive



H-3903



H-4391



H-3902



H-4100 Series

Rocker-Type Field-Testing Sieves— H-4391

For sieve analysis of coarse aggregates and other materials. Consists of a 12" (305mm) square frame with handles mounted on a collector box with rockers. Includes 3" (76.1mm), 2" (50.8mm), 1-1/2" (38.1mm), 1" (25.4mm), 3/4" (190mm), 1/2" (12.7mm), 3/8" (9.51mm) and No. 4 ASTM wire screen plates with square openings.

Screen plates of any standard openings are available; separations finer than No. 20 mesh are not recommended for this unit. Screens are held in place with two locking devices on opposite sides. All screens can be clamped into frame for carrying or storage. OD15-1/4 x 12-1/4 x 10" (387 x 311 x 354mm). Replacement screens available, call 1-800-544-7220.

Ship wt. 42 lbs. (19kg)

5" Dia. Soil Analysis Sieves Set— H-3903

Used by agricultural engineers because of their accuracy and ease of handling. Frames are seamless brass with rolled edges and extended skirts for nesting. Set includes: (1) ea of: No. 10, 20, 40, 60, 80, 100 Pan and Cover.

5" Dia. Perforated Plate, Soil Analysis Sieve Set— H-3902

Set includes pan, cover and five metric perforated plate sieves. Screening surfaces are perforated brass plate with 0.5mm, 1mm, 2mm, 3mm and 5mm size openings. Frames are 5" (127mm) dia. by 1-1/2" (38mm) deep. Ship wt. 10 lbs. (4.5kg)

18" Dia. Brass Frame, Riddles (Sieves)— H-4100 Series

Brass frame riddles (sieves) are made with stainless steel wire cloth and are used to wash, sift, strain for draining-off liquids and separate aggregates and dry materials in the sieve analysis of concrete and other materials. Comply with ASTM specifications.

Screen No.	Mesh Size	Model
4"	100mm	H-4109.4
3.5"	90mm	H-4109A
3"	75mm	H-4109
2.5"	63mm	H-4108
2"	50mm	H-4107
1.5"	37.5mm	H-4106
1.25"	31.5mm	H-4105A
1"	25.0mm	H-4105
.875"	22.4mm	H-4104A
.75"	19.0mm	H-4104
.625"	16.0mm	H-4103A
.5"	12.5mm	H-4103
.375"	9.5mm	H-4102
.25"	6.3mm	H-4101
No. 3.5	5.60mm	H-4100.3
No. 4	4.75mm	H-4100.4
No. 5	4.00mm	H-4100.5
No. 6	3.35mm	H-4100.6
No. 7	2.80mm	H-4100.7
No. 8	2.36mm	H-4100.8
No. 10	2.00mm	H-4100.10
No. 12	1.70mm	H-4100.12
No. 14	1.40mm	H-4100.14
No. 16	1.18mm	H-4100.16
No. 18	1.00mm	H-4100.18
No. 20	85	H-4100.20
Cover		H-4100C
Bottom Pan		H-4100P



H-3945



H-3942, H-3943



H-3948

Deep Frame Wet Washing Sieves

Extra-deep frame sieves for wet testing of various materials make it possible to wash the fines through the sieve without losing any of the sample. Sieves are constructed of brass frames and permanently installed stainless steel cloth. These sieves can also use almost any size mesh material 20 mesh and finer, call for availability.

Model	Description dia. x depth	Size lbs. (kg)	Ship wt.
H-3945	Wet washing sieve with No. 200 stainless steel cloth	8" x 4"	7
H-3945RC	Wet washing sieve with No. 200 stainless steel cloth and back-up cloth	(203 x 102mm)	(3.2)
H-3946	Wet washing sieve with No. 200 stainless steel cloth	8" x 6"	8
H-3946RC	Wet washing sieve with No. 200 stainless steel cloth and back-up cloth	(203 x 152mm)	(3.6)
H-3947	Wet washing sieve with No. 200 stainless steel cloth	8" x 8"	9
H-3947RC	Wet washing sieve with No. 200 stainless steel cloth and back-up cloth	(203 x 203mm)	(4.0)
H-3928FS200	Wet washing sieve with No. 200 stainless steel cloth	12" x 4"	11
H-3928FS200RC	Wet washing sieve with No. 200 stainless steel cloth and back-up cloth	(305 x 102mm)	(5.0)
H-3929FS200	Wet washing sieve with No. 200 stainless steel cloth	12" x 6"	13
H-3929FS200RC	Wet washing sieve with No. 200 stainless steel cloth and back-up cloth	(305 x 152mm)	(5.9)
H-3938FS200	Wet washing sieve with No. 200 stainless steel cloth	12" x 8"	14
H-3938FS200RC	Wet washing sieve with No. 200 stainless steel cloth and back-up cloth	(305 x 203mm)	(6.3)

Replaceable Mesh, Wet Washing Sieves

Cost-effective replaceable mesh inserts allow you to interchange mesh sizes in these sieves, as well as make quick replacements of damaged screens. Inserts include back-up cloth and are available in either No. 200 or 325 mesh sizes. These sieves can also use almost any size mesh material 20 mesh and finer, call for availability.

Model	Description dia. x depth
H-3942	8" x 4" high (203 x 101mm) with No. 200 replaceable mesh disk
H-3943	8" x 6" high (203 x 152mm) with No. 200 replaceable mesh disk
H-3942FS325	8" x 4" high (203 x 101mm) with No. 325 replaceable mesh disk
H-3943FS325	8" x 6" high (203 x 152mm) with No. 325 replaceable mesh disk
H-3942.200	No. 200 replacement mesh disk
H-3942.325	No. 325 replacement mesh disk

Corps of Engineers Wash Screen Assembly— H-3948

Unit is used to wash out fines from samples of base coarse materials. Assembly has 10 to 12 lb. (4.5 to 5.4kg) capacity. Includes 12" (305mm) dia. brass frame with No. 200 mesh detachable screen with a coarser mesh backing at the bottom. Sieve is 10" deep (254mm) with an overload screen at midpoint. Sieves easily disassembles to clean and replace mesh. Ship wt. 112 lbs. (51kg)

No. 10 Overload Screen for H-3948— H-3948M10

Replacement No. 200 Mesh for H-3948— H-3948M200



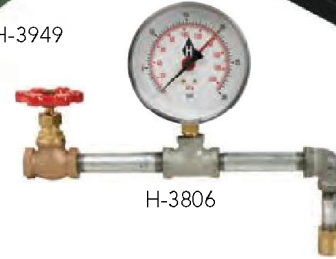
H-3807

H-4328
H-4328.2 Bucket and
Sieves (not included)

H-3949



H-3880



H-3806

Cement Wet Washing Sieves

Stainless steel mesh sieves with nickel-plated brass frame and legs for support when drying on hot plates. Legs are quick and easy to remove to facilitate mesh replacement.

Model	Description
H-3807	2" x 3" high (52 x 76mm) with No. 325 replaceable mesh
H-3804	3" x 3-1/2" H (76 x 89mm) w/ No. 200 replaceable mesh
H-3809	4" x 4-1/2" H (102 x 114mm) w/ No. 325 replaceable mesh
H-3807.325	2" dia. No. 325 replacement mesh disk
H-3804.200	3" dia. No. 200 replacement mesh disk
H-3809.200	4" dia. No. 200 replacement mesh disk
H-3807.4	Replacement Leg
H-3807.5	Replacement Screw

All Wet Washing Sieves are available from 50-400 mesh.
Call 1-800-544-7220 to order mesh not listed.

Wet/Dry Sieve Shaker, 120V 60Hz— H-4328**Wet/Dry Sieve Shaker, 220V 50Hz (see note)— H-4328.5F**

Lightweight cast aluminum, electrically operated portable sieve shaker is designed for use with one or two 8" diameter full-height or four half-height testing sieves. Used for wet or dry screening of solid particles. When placed over a bucket or sink, the unit provides the necessary shaking motion and frees the operator from a fatiguing task.

The sieve shaker has the advantage of being portable for making dry, gross separations and is convenient in making reproducible wet separations. The sieves are held firmly in place by a friction fit of the sieve's nesting ring, so a pan having a nesting ring can be used in lieu of one sieve. All PVC coated, 115v/60hz for intermittent duty, 3-wire cord and plug, on-off switch, and a neoprene wet- protective motor cap. Shipping Wt. 12 lbs. (5kg).

H-4328.5F includes a H-4328.1 220V 50Hz Transformer.

5 Gallon Bucket for H-4328— H-4328.2

Bucket is notched to securely hold the H-4328 Sieve Shaker in place.

Wet Washing Sieve Apparatus— H-3806

Controls spray and water pressure. Includes valve, pressure gauge, piping and H-3808 spray nozzle. Complies with ASTM C430, D1514; AASHTO T192; Test Standard No. 158 (Method 211)

Replacement Spray Nozzle— H-3808**Replacement Gauge— H-3806.1****Aggregate Washer, 115V 60Hz 1ph— H-3949****Aggregate Washer, 230V 50Hz 1ph— H-3949.5F**

Aggregate washer with 15lb. capacity (6.8kg) removes clay, aggregate particles and water-soluble materials by the decanted wash water. Specimen is agitated sufficiently to completely separate all particles. Revolving drum is 10-3/4" dia. x 13"D (27 x 33cm) and locks in four angle positions. Includes valve and 3/8" goose-neck water tube. O.D. 30" x 20" x 32" H (76 x 51 x 81 cm). Complies with ASTM C117. **Order USA Standard Sieve, 200 mesh separately.**

Ship wt. 115 lbs. (52.2kg)

Table-Top Aggregate Washer, 120V 60Hz— H-3880**Table-Top Aggregate Washer, 230V 50/60Hz— H-3880.4F**

This lightweight, table-top Aggregate Washer has a capacity of 8lb (3.6kg) is designed to be located near the sink drain on a laboratory countertop. The easily removable drum that measures 9" diameter by 10-3/4" deep (229 x 273mm) is manufactured from stainless steel for rust and corrosion resistance. With the drum mounted in its fixed tilted position, the complete unit weighs only 25 lbs. (11.3kg). In operation, the washer applies a gentle agitation to the sample in the revolving drum until all particles are washed, separated and the overflow water runs clear. The unit is supplied complete with a permanent water connect with regulator valve, tubing, saddle valve, stainless steel goose-neck water tube with swivel connection and a 6-ft. power cord with GFCI plug for operator safety. Complies with ASTM C117.

Ship wt. 40 lbs. (18.1kg)

Sieves for use with Aggregate Washers (ASTM C117)

Model	Description
H-3920FS200	Standard, Full Height, No. 200 Mesh, 8" dia. Sieve
H-3912FS200	Standard, Full Height, No. 200 Mesh, 12" dia. Sieve
H-3920FS16	Standard, Full Height, No.16 Mesh, 8" dia. Sieve
H-3912FS16	Standard, Full Height, No. 16 Mesh, 12" dia. Sieve



Micron Air-Jet Sieve Shaker, 120V 60Hz — H-4334

Micron Air-Jet Sieve Shaker, 230V. 50/60Hz — H-4334.4F

Effective single sieve for dry powders, fragile samples or material that can't be wet sieved, Micron air-jet sieve shaker uses 200mm dia. sieve drums, with 2mm to 20µ particle size range. Unit adapts to 75mm diameter electro-formed sieves in 90mm drums for 45µ to 5µ. Timer and vacuum controls allow reproducibility of the results. Filter attachment, micromesh sieve or cyclone collector accessories may be used to recover fines. Includes 200mm cast aluminum sieve drum housing unit, Plexiglas lid, 15W slotted brass air nozzle, 0-15 minute rotary timer switch, 1HP vacuum power system, gauge and 9.5 gal. recoverable capacity, steel filter canister. Sieves are not included. Accessories and air-jet sieve drums are available; call for details and pricing.

Shipping Wt. 110 lbs. (50kg). 115V. 60Hz

Micron Air-Jet Sieves

For use with Air-Jet sieving systems. Stainless steel frame and cloth mesh. 7-7/8" dia. (200mm) frame with rubber seal. Overall height: 1-3/4" (44.5mm). Depth to cloth: 1-1/8" (28.6mm). Each sieve supplied with serial number and matching "Test Sieve Certificate" for traceability. Complies with ASTM E11.

U.S. Std. Mesh	Micron	Model	U.S. Std. Mesh	Micron	Model
No. 8	2360	H-4335F8	No. 80	180	H-4335F80
No. 10	200	H-4335F10	No. 100	150	H-4335F100
No. 12	1700	H-4335F12	No. 120	125	H-4335F120
No. 14	1400	H-4335F14	No. 140	106	H-4335F140
No. 16	1180	H-4335F16	No. 170	90	H-4335F170
No. 20	850	H-4335F20	No. 200	75	H-4335F200
No. 25	710	H-4335F25	No. 230	63	H-4335F230
No. 30	600	H-4335F30	No. 270	53	H-4335F270
No. 35	500	H-4335F35	No. 325	45	H-4335F325
No. 40	425	H-4335F40	No. 400	38	H-4335F400
No. 45	355	H-4335F45	No. 450	32	H-4335F450
No. 50	300	H-4335F50	No. 500	25	H-4335F500
No. 60	250	H-4335F60	No. 635	20	H-4335F635
No. 70	212	H-4335F70			

Specific Gravity and Fine Aggregate Kit, 120V 60Hz— H-3373A

Same Kit as above, 230V 50/60Hz— H-3373A.4F

Kit designed to provide you with the major equipment to do specific gravity and absorption of fine aggregate testing. The kit includes a H-3360 Conical mold and tamper; H-3381 Pycnometer Top and 1 Qt. (.95L) glass jar, HB-4533A .1g readability, 2600 gram scale; H-30120 Lab Oven, and H-3966 3/4" (19mm) sample splitter. Complies with ASTM C128, AASHTO T84. Shipping wt. 95 lb (43kg)

Conical Mold and Tamper— H-3360

Used for determination of bulk and apparent specific gravity and absorption of fine aggregate, brass mold is 40mm ID at top, 90mm ID at bottom, 75mm high. Steel tamper weighs 12 oz (340g) and has 1" dia. (25mm) flat circular tamping face. Complies with ASTM C128; AASHTO T84.

Conical Mold Only— H-3361

Tamper Only— H-3362

Pycnometer Top and Glass Jar— H-3381

Pycnometer top and 1qt. (.95L) glass jar set for determining specific gravity of fine aggregate. Top is spun brass with 3/8" (10mm) hole in one end; threaded end fits 1- or 2-qt. (1 or 2L) glass jar. Includes rubber gasket that fits on jar mouth to prevent fine particles from becoming deposited in the threads. Complies with ASTM C128. Order jars separately.

Glass Jar— H-3380.2


1qt. (.95L) glass jar. Complies with ASTM C128.

Pycnometer Top Only— H-3380

**Specific Gravity Bench Set, 120V 60Hz— H-2713A****Specific Gravity Bench Set, 220V 50/60Hz— H-2713A.4F**


Our specific gravity weighing kit includes our deluxe bench, our H-2712 Specific gravity tank kit with heater and circulating pump and our HB-4537AWB scale— a 20,000g x .1g readability scale with weigh-below feature.

The bench is 46" (1168mm) tall with a 31" x 25" (787 x 635mm) platform top, which includes a hole to accommodate the weigh-below scale feature; and, a crank-operated shelf that lets you bring the water tank up to the sample, making for easier sample immersion.

The H-2712 tank kit is comprised of a 30 gal. (113.5L) polyethylene tank, which measures 18" x 24" x 18" (457 x 610 x 457mm) and comes with a drain valve and overflow port. It also comes with a 200-watt, durable tank heater and a circulating pump, both of which are attached to a stainless steel mounting bracket that holds both securely to the tank. Kit is shown with optional H-3371 wire basket. 

Specific Gravity Bench with Tank— H-2710A

Specific gravity bench with hole to accommodate hook for weigh-below scales; and, a crank-operated shelf that lets you bring the water tank up to the sample, making for easier sample immersion. Includes 30 gal. Polyethylene tank, which measures 18" x 24" x 18" (457 x 610 x 457mm) with drain valve and overflow port.

Shipping Wt. 130 lbs. (59kg). 

**Specific Gravity Tank w/
Heater/Circulator, 120V 60Hz— H-2712A****Tank w/ Heater/Circulator, 220V 50/60Hz— H-2712A.4F**

30 gal. (113.5L) polyethylene tank, which measures 18" x 24" x 18" (457 x 610 x 457mm) and comes with a drain valve and overflow port. It also comes with a H-2712A.6, 200-watt, durable tank heater and circulating pump, both of which are attached to a stainless steel mounting bracket that holds both securely to the tank.

Complies with ASTM C127.

Heater/Circulator Assembly, 120V 60Hz— H-2712A.6**Heater/Circulator Assembly, 220V 50/60Hz— H-2712A.6.4F**

Comprised of a 200-watt, durable tank heater and circulating pump attached to stainless steel bracket that hangs on specific gravity tank to maintain constant temperature bath.

Sample Container— H-3351

For use in testing aggregate soundness, container is used to immerse samples of coarse aggregate in solution and then transfer samples to oven for uniform drying in minimum time. No. 4 wire mesh, bottom soldered to frame after fabricating. Overall dimension: 10" x 4" dia. (254 x 102mm) with 1/8" (3mm) round wire handle. Complies with ASTM C88; AASHTO T104.

Sample Container— H-3353

Used to immerse samples of coarse aggregates in solution and transfer samples to oven. #8 stainless steel wire mesh, bottom soldered to frame after fabricating. Overall dimension: 5-1/2" x 4" dia. (140 x 102mm). Complies with ASTM C88; AASHTO T104. Shipping wt. 6 lbs. (2.7kg)

Specific Gravity Basket— H-3371

Stainless steel No. 8 wire mesh basket features reinforced construction and bail-type handle. Dimensions: 8" x 8" dia. (203 x 203mm). Complies with ASTM C127. Shipping wt. 9 lbs. (4kg)

8" Specific Gravity Sieve #4— H-3355**12" Specific Gravity Sieve #4— H-3356**

Designed for use in specific gravity test applications. Heavy-gauge brass construction.

Hollow Tube Specific Gravity Cradle— H-2715

Through this unique, yet simple stainless steel hollow tube designed, water displacement is virtually eliminated for improved accuracy in specific gravity test applications.

Utility Bucket— H-3372

Heavily galvanized utility bucket has wire-reinforced top edge, bail-type handle and 14-qt. (13L) capacity. Complies with ASTM C127.



H-3383F
H-3383L



H-3400



H-3460



H-3386



H-3385



H-3387



H-2640



H-2660



H-3393

Specific Gravity Flask for Fine Aggregate— H-3383F

Specific Gravity Flask for Larger Aggregate— H-3383L

The Phunque Flask is the key element in a newly developed method for conducting specific gravity/absorption determinations for aggregate. This method has been designed to eliminate the inherent guess work built into ASTM C128 and AASHTO T84— the current cone and tampo methods in use today. The new test is easy to perform, easy to understand and easily reproducible between technicians and labs. The test is very easy to run and can be reliably run in the field. This can be especially helpful in asphalt operations where specific gravities can make a big impact on pay factors. This test lets the contractor check specific gravities on the material he is currently using, not lab tests, which may not be current. The H-3388F is for fine aggregate and has a neck approximately 1" in diameter. The H-3388L is used for coarse aggregate and has a neck approximately 2" in diameter. The scale on both items is readable to 0.1 grams; Both include an excel calculation sheet and a swabbing utensil to keep the neck of the flask dry during loading.

H-3383F: Shipping Wt. 12 lbs. (5kg).

H-3383L: Shipping Wt. 15 lbs. (7kg).

Specific Gravity Flask (Le Chatelier)— H-3400

For determining density of powdered materials—limes, slag and hydraulic cement. Capacity: 250ml. Neck is graduated from 0 to 1ml and from 18 to 24ml. Flask is accurate to .05ml. Complies with ASTM C188; AASHTO T133. Shipping Wt. 2 lbs. (1kg).

Specific Gravity Flask (Chapman)— H-3460

Flask has two bulbs for determining approximate percentage of voids and surface moisture in fine aggregates. Graduated to 200ml between bulbs and from 375ml up to 450ml (in 1ml divisions) above second bulb. Complies with ASTM C70; AASHTO T142. Shipping Wt. 2 lbs. (1kg).

Specific Gravity Bottles (Pycnometers)

Adjusted bottle for routine commercial testing, fitted with ground-in perforated stopper. Capillary vent stopper design allows stopper to be inserted to fixed depth in the bottle's neck. Small hole in center of stopper allows emission of air and surplus water. Volume of the bottle has been adjusted at 20°C. Complies with ASTM D854; AASHTO T100.

Specific Gravity Bottle, 25ml— H-3385

Specific Gravity Bottle, 50ml— H-3386

Specific Gravity Bottle, 100ml— H-3387

Hubbard 24ml Specific Gravity Bottle— H-2640

Hubbard-form 24ml bottle for determination of specific gravity of semi-solid bituminous materials, asphalt cements, soft tar pitches and emulsions. Features ground-in stopper with 1.6mm hole. Complies with ASTM D70, D115, D1963; AASHTO T228.

Hubbard-Carmick Specific Gravity Bottle— H-2660

Modified 24ml, wide-mouth Hubbard-Carmick, Erlenmeyer-style bottle allows easy filling and cleaning and is very stable. Meets ASTM D70, D115, D2343; AASHTO T228, T43

Volumetric Flasks

Glass flasks used in specific gravity determinations are calibrated to contain rated capacity at 20°C within permissible tolerance. Available stoppered or unstoppered. Complies with ASTM D854; AASHTO T100.

Volumetric Flasks	Model
100ml, unstoppered volumetric flask	H-3391
250ml, unstoppered volumetric flask	H-3392
500ml, unstoppered volumetric flask	H-3393
250ml, stoppered volumetric flask	H-3394
500ml, stoppered volumetric flask	H-3395



H-4967
(includes pelican case)



H-4966



H-4965A



H-4972

Speedy® 2000 Moisture Tester (20g)—H-4967

Speedy® 2000 Moisture Tester (6g)—H-4968

The Series 2000 Speedy moisture tester is a portable system for measuring the moisture content of a wide range of materials including soils, aggregates, dust and powders (and liquids). The system consists of a low pressure vessel fitted with a pressure gauge and an electronic scale and test accessories. Moisture measurements are made by mixing a weighed sample of the material with a calcium carbide reagent in the sealed pressure vessel. The reagent reacts chemically with water in the sample, producing acetylene gas that in turn increases the pressure within the vessel. The pressure increase in the vessel is proportional to the amount of water in the sample, the moisture content can be read directly from the calibrated pressure gauge. The tester is supplied complete with heavy-duty plastic carrying case, electronic balance, beaker, cleaning cloth, cap, washer, scoop, steel pulverizing balls and cleaning brushes. Complies with ASTM D4944 and AASHTO T217. Ship wt. 13 lbs. (5.9kg). **See Warning Below.**

Accuracy: Within 0.5% on most materials

Test Speed: 45 sec. to 3 min., depending on material

Gauge: Calibrated from 0-20% moisture based on wet weight

Balance: Electronic; 0-7 oz (0-200g) range; battery operated

Calibration Kit, Speedy Tester—H-4965A

A self-contained unit designed to enable an operator to check the accuracy of the Speedy Moisture Tester. The unit is comprised of a master dial, integral air pump, control connections and tools for checking gauge accuracy and pressure leaks, with instructions for simple re-calibrations. Includes case. Shipping wt. 20 lbs. (9kg)

Moisture Tester Reagent—H-4966

Calcium carbide reagent for Speedy® Moisture Testers. Carton of 24-1 lb. (0.5kg) containers. Shipped via motor freight only.

See Warning Below. Ship wt. 26 lbs. (11.7kg)

Trident Moisture Probe—H-4972

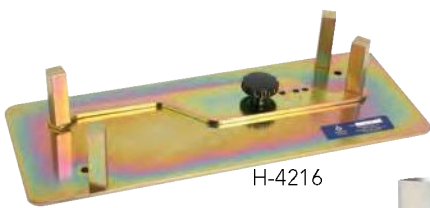
The H-4972 Trident Moisture Meter utilizes the latest microwave and microprocessor technology to measure moisture content in various fine and coarse-grained materials. The prongs of the probe are inserted into the material to be tested and the percentage of moisture content is instantaneously shown on the easy to read display. The Trident comes calibrated for both sand and aggregate, and can be programmed by the user for up to ten different materials. The Trident can store more than 150 readings – complete with time and date for future reference.

HAZARDOUS WARNING:

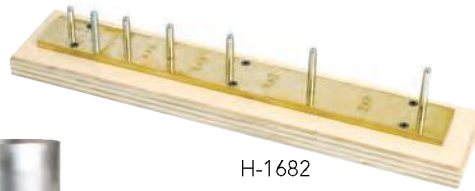
Danger of explosion/fire may result if Moisture Testing Reagent is allowed contact with moisture. Calcium carbide forms flammable acetylene gas when wet so it must be kept sealed and dry. Provide adequate ventilation and use away from sparks and flame.

U.S. shipping regulations require ground shipment for Speedy Moisture Testers. H-4966 reagent carton must go truck shipment and incur extra charge for hazardous goods handling

International shipping regulations require separate purchase of reagent, which requires "dangerous goods" papers and packing. For this reason, Speedy Moisture Testers for International orders do not contain reagent, order separately.



H-4216



H-1682



H-1684



H-1680A



H-1686



H-3420



Flakiness Sieves

Proportional Caliper Device— H-4216

Use to determine the percentage of flat particles, elongated particles, or both flat & elongated particles in coarse aggregates. Steel construction for strength & durability, plated for corrosion resistance. 6" x 16" (152.4 x 406.4mm) base plate with four rubber feet for stability, and for convenience in tabletop testing. Ratio desired is obtained by selecting one of four adjustable positions: 2 = 1:2; 3 = 1:3; 4 = 1:4; or 5 = 1:5. Meets ASTM D4791. It is recommended that the desired procedure be reviewed carefully prior to conducting the test. Complies with ASTM D4791. Ship wt. 8 lbs. (4kg)

Elongation Index for Classification of Aggregate Particles— H-1682

For determining elongation index. Particle is elongated when its length (longest dimension) is more than 1.8 of the midsize of the sieve fraction. Aggregate to be classified is separated into seven sieve fractions from 63 to 6.3mm, and each fraction is examined separately. Six labeled openings between pairs of metal pins measure particle from each of the six sieve cuts below 50mm. The mass of all elongated particles (failing to pass between pins) as percent of the sample is the elongation index. Complies with BS 812. Ship wt. 3 lbs. (1kg)

Void Content Apparatus, Fine Aggregates— H-1680A

Use to determine the uncompacted void content of a fine aggregate sample. Indicates the angularity, sphericity, and workability of fine aggregate in a mixture. Includes 100 ml brass cylindrical measure, funnel assembly, funnel stand, and glass plate for calibration. Complies with ASTM C1252, AASHTO TP33. Ship wt. 10 lbs. (4.5kg)

Scratch Hardness Tester— H-3420

Determines quantity of soft particles in coarse aggregates on basis of scratch hardness. Apparatus consists of 1/16" (1.6mm) dia. brass rod with rounded point inserted into plunger. Overall weight of brass point and plunger is 2 ±0.1 lbs (8.9 ±0.4N). Plunger is mounted on support stand, permitting plunger to lower and raise freely. Furnished with one extra brass scratch rod. Complies with ASTM C851. Ship wt. 9 lbs. (4kg)

Brass Rod— H-3421

For use with H-3420. Package of 10.

Void Content Apparatus, Coarse Aggregates— H-1686

Used to determine the void content of uncompacted coarse aggregates used in HMA applications. When used on aggregates of a known size, the void content provides the user with an indication of the angularity, sphericity and surface texture as compared to other coarse aggregates of the same grading. In operation, the aggregate is allowed to free-fall 115mm from the funnel bottom into a 154mm diameter by 160mm high cylindrical measure. The excess heaped aggregate is struck of using the included bar, the mass is measured, and the void content is computed. The apparatus consists of a stainless steel hopper, stand, measure and strike-off bar and a 170mm square glass plate for calibration of the measure. Complies with AASHTO TP56. Order overflow pan and material handling scoop separately.

Flakiness Gauge for Classification of Aggregate Particles— H-1684

For determining flakiness index. Particle is flaky when its thickness (smallest dimension) is less than 0.6 of the mid-size of the sieve fraction. Gauge has seven labeled slots for rapid hand trying of particles from each of the seven sieve cuts. The mass of all flaky particles (passing appropriate slots) as percent of the sample is the flakiness index. Complies with BS 812.

Flakiness Sieves

Model	Width	Length	Passing	Retained
H-4392.4.9	4.9mm	30mm	10mm	6.3mm
H-4392.7.2	7.2mm	40mm	14mm	10mm
H-4392.10.2	10.2mm	50mm	20mm	14mm
H-4392.14.4	14.4mm	60mm	28mm	20mm
H-4392.19.7	19.7mm	80mm	37.5mm	28mm
H-4392.26.3	26.3mm	90mm	50mm	37.5mm
H-4392.33.9	33.9mm	100mm	63mm	50mm



H-3860



H-3860.100




HM-4100



HM-4100.2

Los Angeles Abrasion Machine, 120V 60Hz— H-3860**Los Angeles Abrasion Machine, 220V 50Hz— H-3860.5F**

Tests for resistance to abrasion in crushed rock, slag, crushed and uncrushed gravel, using Los Angeles testing method. Features welded structural steel frame, fabricated 1/2"-thick (913mm) abrasion-resistant steel drum, removable shelf bolted to drum and balanced drum assembly for easy rotation by hand. Enclosed chain drive rotates drum without conventional slip clutch. Positive drive delivers greater accuracy. Self-contained worm-drive motorized speed reducer has anti-friction bearings and sealed lubrication. Motor is 1HP (746W), equipped with magnetic push-button control and automatic overload cutout. Includes revolution counter, material catch pan and 1 abrasion charge consisting of 12 hardened-steel balls. Dimen.: 39" x 29" x 37" (991 x 737 x 940mm). Complies with ASTM C131, C535; AASHTO T96.

Shipping wt. 1060 lbs. (485kg) 

Abrasion Charge—H-3865


Replacement abrasive charge for H-3860 Los Angeles Abrasion Machine. Consists of 12 hardened-steel balls.

Ottawa Silica Sand— H-3820

Specially graded, natural Ottawa silica sand will pass a No. 20 (850 μ) sieve and be retained on a No. 30 (600 μ) sieve. Specific gravity is 2.65. Packed in 50 lb. (22.7kg) bags. Complies with ASTM C778.

Shipping wt. 50 lbs. (22.7kg)

Sound Enclosure For LA Abrasion Machine— H-3862

Full enclosure designed to cut down on noise generated will using the LA Abrasion Machine. Unit is Steel Construction with Foam Lining for noise reduction. Shipping wt. 305 lbs. (138kg) 

Slake Durability Apparatus, 120V 60Hz— HM-4100**Slake Durability Apparatus, 220V 50Hz— HM-4100.5F**

The Slake Durability Apparatus is used to determine the durability of rocks and the probable amount of deterioration of weak rocks, over a period of time, after simulated exposure to nature's continual wetting and drying cycles. The apparatus consists of a base-mounted motor drive unit with two mesh drums and two water tanks with quick-release drive assemblies. The drums rotate at a speed of 20 revolutions per minute. Options include two extra drums and tanks for running up to four tests simultaneously. Complies with ASTM D4644 standard. Shipping wt. 70 lbs. (32kg)

Wire Mesh Drums— HM-4100.1

Set of 2 wire mesh drums for use with Slake Durability Apparatus.

Drum and Tank Assembly— HM-4100.2

Set of two wire mesh drum and water tank assemblies.



H-3875



H-3875.1

H-3875.2




HP-1160

Micro-Deval Apparatus, 120V 60Hz— H-3875

The Micro-Deval test measures abrasion resistance and durability of mineral aggregates. An aggregate sample is placed in a sealed stainless steel jar with an abrasive charge of up to 5,000g of 9.5mm diameter stainless steel balls and water, then rotated at 100rpm for two hours. Aggregate quality is determined by percentage loss in gradation results at completion. Smaller equipment size, lower sample quantities and a simpler procedure make the method easier and less costly to perform than traditional methods.

The H-3875 Complies with current ASTM, AASHTO and Canadian standards, as well as the more stringent Texas DOT requirements. The H-3875 Micro-Deval Apparatus is a second generation, state-of-the-art machine. A sophisticated electronic controller with optical sensing system accurately tracks test time, total revolutions and rpm of jars. Test duration may be controlled by either elapsed time or total revolutions. Jars stop within a fraction of one revolution at test termination. Jar revolution and speed data may also be used as a verification of machine performance.

The jars revolve behind closed Lexan™ doors with safety interlocks. Other manufacturers use separate timers to control test duration, which does not permit tracking of jar revolutions or speed and allows variations up to ±6% of the optimum number of revolutions. In addition, other machines spin the jars on unguarded open rollers, creating a potentially hazardous situation.

The Micro-Deval machine is a two-tier unit with sturdy steel frame. Each tier carries one stainless steel 5L jar, 194mm ID, 170mm internal height with locking cover. Power to the rubber-covered rollers is supplied by a 3/4hp, 115V/60Hz electric motor through a gear transmission and chain drive. The unit is supplied with two jars and two 5,500g abrasive charges. A magnet is included to assist in removing the abrasive charge after the test is complete. Overall Dimensions: 20.5 x 13.5 x 38" (521 x 343 x 965mm). Shipping wt. 110 lbs. (107kg) 

220V version is not available

Slightly different equipment meeting European Standard EN 1097-1 is also available and will be quoted upon request.

Micro-Deval 5L Jar— H-3875.1

For additional sample preparation capacity and greatly reduced testing times, order additional Jars.

Micro-Deval Abrasive Charge— H-3875.2

For additional sample preparation capacity and greatly reduced testing times, order additional Abrasive Charges.

Order required sieves separately in 8in (page 200), 12in (page 201) or 200mm (page 204) diameters as desired. Required Mesh sizes to comply with ASTM and AASHTO Specifications:

Coarse Aggregate	Fine Aggregate
3/4"	No. 4
5/8"	No. 8
.530"	No. 16
3/8"	No. 30
.265"	No. 100
No. 4	No. 200
No. 16	

See separate listing for wet sieving accessories, useful for washing sample over sieves at completion of abrasion cycle, page 209.

Falling Sand Abrasion Tester— HP1160

The Falling sand test determines the abrasion resistance of coatings, such as paint, varnish, lacquer and related products. The test panel is enclosed in a receptacle with a window. Ottawa natural silica sand is considered the standard use in this test because of its known characteristics. Order H-3820 Ottawa silica test sand separately. Complies with ASTM D333, D968, D1395, D2205. Shipping wt. 110 lbs. (49.9kg) 