
HUMBOLDT
HUMBOLDT U.S.A. STANDARD SIEVE
HUMBOLDT U.S.A. STANDARD SIEVE

AGGREGATE

Testing Equipment For Construction Materials
HUMBOLDT

H-3962, H-3964

H-3980, H-3985

H-3966, H-3987, H-3989,
H-3990, H-3992

H-3970,
H-3975

Humboldt Sample Splitter Specifications

Model	Material Size (max.)	Chutes Number	Chutes Width	Hopper L x W inches (mm)	Pans (incl.)	Ship wgt. lbs. (kg)	Steel Pan Pan Model #	Steel Pan L x W x H" (mm)	Stainless Steel Pan Pan Model #	Stainless Steel Pan L x W x H" (mm)
One-Piece Construction Sample Splitters							Replacement Pans for Sample Splitters			
H-3962	0.25" (6.3mm)	14	.375" (9.52mm)	8" x 6.75" (203 x 171mm)	4	2 lb (6.3 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-3964	0.33" (8.4mm)	14	.500" (12.7mm)	11" x 6.75" (279 x 171mm)	4	2.7 lb (7.7 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-3966	0.50" (12.7mm)	14	.750" (19mm)	14.75" x 6.75" (375 x 171mm)	4	3 lb (12.3 kg)	NA	NA	H-3967S	13.25" x 5.125" x 6.625" (337x 130 x 168mm)
H-3987	0.66" (16.9mm)	16	1.00" (25.4mm)	20" x 9" (508 x 229mm)	4	5.9 lb (14.1 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-3989	1.33" (33.8mm)	8	2.00" (50.8mm)	19.5" x 9.5" (495 x 241mm)	4	5.9 lb (12.3 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-3990	1.00" (25.4mm)	10	1.50" (38.1mm)	20" x 9" (508 x 229mm)	4	5.9 lb (22.7 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-3992	1.67" (42.3mm)	8	2.50" (63.5mm)	24" x 9" (610 x 229mm)	4	4.5 lb (22.7 kg)	NA	NA	H-3993S	22" x 5.125" x 6.75" (559 x 130 x 171mm)
Removable Hopper Sample Splitters										
H-3980	0.33" (8.4mm)	12	.500" (12.7mm)	11" x 8.5" (279 x 216mm)	4	2 lb (8.2 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-3985	0.50" (12.7mm)	12	.75" (19mm)	14" x 8.5" (356 x 216mm)	4	2.7 lb (9.5 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 (12.7 kg)	NA	NA	H-3976S	11.875" x 5" x 6.125" (302 x 127 x 156mm)


H-3994


H-4135


H-3971C


H-3973


H-3974

Micro and Precision Splitter Specifications

Chutes		Hopper Size	Hopper Volume	Pans	Pan Capacity	Ship wt.	Model	Pan
Number	Width in. (mm)	L x W— inches (mm)	cu. inch (mm)	(furnished)	cu. inch (mm)	lbs. (kg)		
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 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.

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 the one-piece splitters 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. See models: H-3970 and H-3975.

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 rejects 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)

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) aluminum high-back (notched L-shape) pans are supplied with the H-3971C micro splitter and two (2) stainless steel sample pans are supplied with the H-3973, H-3974 and H-3978 precision splitters.

Micro & Precision Splitters see chart
Shipping wt. see chart

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)

H-4393

H-4288
H-4288FC

H-4289

H-4290

Sample Splitter Specifications

Model	Gilson #	Maximum Particle Size in. (mm)	Hopper Capacity ft³ (L)	Chute Bar Size in. (mm)	Chute Bar Quantity	Chute Slope	Dimensions L x W x H inches (mm)	Pans Replacements
H-4393	SP-0	6 (152)	3.5 (99.1)	1 (25)	48	60°	56 x 26 x 41 (1422 x 660 x 1041)	H-4393.2
H-4288	SP-1	4 (102)	1 (28.3)	0.5" (13)	48	45°	29 x 19 x 39 (737 x 483 x 991)	H-4288.2
H-4288FC	SP-1C	4 (102)	1 (28.3)	0.5" (13)	10 Fixed	45°	29 x 19 x 39 (737 x 483 x 991)	H-4288.2
H-4289	SP-2	2 (51)	0.55 (15.6)	0.5" (13)	36	45°	22 x 14.5 x 20.5 (559 x 368 x 521)	H-4289.1
H-4290	SP-2.5	0.75 (19)	0.28 (7.9)	0.25" (6)	48	60°	15.5 x 12.5 x 17.5 (394 x 318 x 445)	H-4290.1
H-4291	SP-3	0.25 (6)	0.06 (1.7)	0.125" (3)	48	60°	9.5 x 8.5 x 13.5 (214 x 216 x 343)	H-4291.1
H-4293	SP-10	0.25 (6)	0.06 (1.7)	0.125" (3)	48	60°	29 x 19 x 39 (737 x 483 x 991)	H-4288.2

Universal Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

The H-4393 universal splitter is built for large-volume bulk aggregate or raw coal samples. Other large samples with particle sizes up to 6" (152mm) can be accurately reduced with this rugged divider. Each split is evenly distributed to two pans on each side of the splitter. All four pans are included. The H-4393.1 lift cart is recommended for handling fully-loaded pans.

Universal Splitter H-4393

Shipping wt. 68 lbs (31kg)

Universal Sample Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

The universal sample splitter is a rugged, large-capacity floor model for laboratory or field use with materials with particle sizes up to 4" (102mm). The convenient size and a wide range of available accessories make the H-4288 a very versatile splitter. See next page for accessories.

Universal-Sample Splitter H-4288

Shipping wt. 135 lbs (75kg)

Universal, Fixed Chute Sample Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

Fixed chute version of the H-4288 universal sample splitter. Features ten, 2.25" (57mm) fixed-width chutes. Includes gate release 1 ft³ (28.3L) hopper. Includes 2 pans. See chart for more information.

Universal-Sample Splitter H-4288FC

Shipping wt. 136 lbs (75kg)

Universal Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

The H-4289 universal splitter is compact and more durable than conventional portable splitters. Lightweight with ample hopper capacity of 0.55 ft³ (15.6 liters) for materials up to 2" (51mm). It is convenient to use in floor or bench-top positions. This splitter provides accurate, representative samples o a wide range of materials.

Porta-Splitter H-4289

Shipping wt. 66 lbs (31kg)

Versa-Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

The Versa-Splitter can be used for fine aggregates up to .75" (19mm) aggregate. Contact parts and pans are stainless steel except for aluminum chute bars, which are anodized for corrosion resistance. Includes 2 pans. See chart for more information.

Versa-Splitter H-4290

Shipping wt. 40 lbs (18kg)

Sample Splitter Chute Specifications

Number of Chutes (openings)	Model	Chute Width - inches										
		.125	.25	.375	.5	.75	1	1.5	2	3	4	6
	H-4291	48	24	16	12	8	6	4	-	-	-	-
	H-4290	-	48	-	24	16	12	8	6	4	-	-
	H-4289	-	-	-	36	-	18	12	-	-	-	-
	H-4288	-	-	-	48	-	24	16	12	8	6	4
	H-4293	-	-	-	48	-	24	16	12	8	6	4


H-4291


H-4293


H-4287


H-4394

Mini-Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

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 .25" (6.4mm) aggregate. The 104 in.^{3} (1.7L) hopper has a .375" (9.5mm) bottom opening with a spring-loaded gate release. Includes 2 pans. See chart for more information.

Mini-Splitter H-4291
Shipping wt. 12 lbs (7kg

Totally Enclosed Splitter

ASTM C136, C702, C778, D75; AASHTO T27, T248

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.

Totally Enclosed Splitter H-4293
Shipping wt. 370 lbs (168kg)

Lift Cart Accessory for H-4393

Recommended lift cart for handling fully-loaded pans.

Lift Cart Accessory H-4393.1
Shipping wt. 15 lbs (6.8kg)

Dust Enclosures

Optional dust enclosure accessory consists of two stainless steel panels held to front and back of the unit by springs.

Dust Enclosure for H-4288 H-4288.7
Dust Enclosure for H-4290 H-4290.5
Dust Enclosure for H-4291 H-4291.5
Shipping wt. 20 lbs (6.8kg)

60° Chute Adapter Kit

Adapts 45° chutes to 60° for more efficient processing of difficult samples.

60° Adapter Kit for H-4288 H-4288.4
60° Adapter Kit for H-4289 H-4290.4
Shipping wt. 8 lbs (3.6kg)

Bag Loading Chute Attachment

Replaces one pan to permit direct loading of material into a bag or container.

Bag Loading Chute for H-4288 H-4288.3
Shipping wt. 6 lbs (2.7kg)

Fixed Chute Accessory

Converts H-4288 into a fixed-chute splitter with ten, 2.25" (57mm) fixed-width chutes.

Fixed Chute Accessory H-4288.8
Shipping wt. 15 lbs (6.8kg)

Porta Wheels for H-4288

Set of two wheels.

Porta Wheels for H-4288 H-4288.1
Shipping wt. 4 lbs (1.8kg)

California Sample Splitter

CalTrans C201

Designed and constructed for the California Department of Transportation. For use with 1.125" (28.6mm) to sand-sized aggregate. Large capacity, 1.9 Cu. Ft. (53.8L) gate release hopper. Ten 2.25" (57.2mm) fixed chutes process particle sizes up to 1.125" (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" (737 x 711 x 1168mm).

California Sample Splitter, steel pans H-4287
California Splitter, aluminum pans H-4287.AL
Shipping wt. 244 lbs (111kg)

California Sample Pans

Sample pans for California sample splitter.

Steel Pan H-4287.1
Aluminum Pan H-4287.2
Shipping wt. 20 lbs (9kg)

Quadri-Splitter

ASTM C702, D346, D2013, E276, E389, E877

The H-4394 Quadri-Splitter efficiently divides free-flowing material into four representative fractions in a single pass. The totally enclosed design controls dust and reduces moisture loss, while sample loss is minimized by fewer passes and less handling. Units yield four representative samples for a total sample capacity of 1.6ft^3 (45.3L). The unique tilt-feeding mechanism lifts and rotates the removable feed pan to the hopper opening where it seals to the hopper inlet as the material is dumped. Sample pans are sealed to splitter body, yet easily slide out. Hinged doors on both sides of the body allow inspection and cleaning of chute sections.

The three chute decks each have fourteen chutes of 1in (25.4mm) width and 60° slope for smooth sample flow, making the H-4394 ideal for coal and coke testing. One pass yields four 1/4 fractions, each of which can be split again if needed to reduce bulk samples to amounts required for lab tests. Three passes will yield a 1/64 sample that is still representative of the whole. H-4394 Quadri-Splitters have all quality stainless steel contact parts (chutes and pans). Other parts are heavy gauge galvanized steel, spot welded, riveted and painted for long life and durability.

Quadri-Splitter H-4394
Shipping wt. 330 lbs (150kg)


H-4283A


H-4276A


H-4273B

H-4283SE

Gilson Testing Screens
ASTM E11; ISO 565

Gilson testing screens are ideal for particle size determinations on large samples of aggregate, slag, ores, and many other coarse materials. Batch sizes up to one cubic foot (0.028m³) or more can be processed into six fractions in as little as three to five minutes, depending on material type. Vibration and amplitude characteristics are fixed at optimum settings for mineral aggregates in the 4" (101mm) to No.4 (4.75mm) size range, but options and accessories are available to optimize machine performance when testing finer samples or special materials. The standard testing screen can be used to process material all the way down to No.200 (75µm) if less efficient separations are acceptable.

These testing screens are available in two variations of clamping mechanism: a manually-operated, screw-type clamping handle, which is more economical, but slightly more labor-intensive for continuous use; and, a quick-acting hydraulic pump system used to clamp the screen trays in place. Trays are quickly secured and released using the same single handle. This more efficient model is recommended for labs with a steady workload of particle size testing.

Both models use an enclosed drive mechanism for added safety. The powerful 1/2hp capacitor-type motor is operated through a starting switch with built-in overload protection. Gilson testing screens are designed to be mounted to a solid, rigid floor system. Securing with anchor bolts to a concrete floor is recommended. Dimensions for anchor bolt placement are available upon request. Overall Dimensions: 23" x 31" x 43" (584 x 787 x 1,092mm), W x D x H.

Gilson testing screens are sold without screen trays or dust pans, which need to be purchased separately for operation. Specify sizes when ordering. In both models, the dust pan may optionally be placed on the bottom shelf of the unit, freeing up an additional slot for a screen tray.

Screen Trays for the Testing Screens feature a generous 14.75" x 22.75" (375 x 578mm), 2.33ft³ (0.22m³) clear screen area. Optional dustpan configurations can be ordered for increased capacity, reduced dust output, or dispensing of fines directly into outside bag or container. Other accessories to facilitate sample handling, dust and noise control and separation performance are listed separately. **These models feature 6-tray slots and a bottom shelf, which allows for up to 6 trays and a dust pan to be used. Order screen trays and dust pans separately.**

Hydraulic-Clamping, 120V 60Hz	H-4283A
Hydraulic-Clamping, 220V 50Hz	H-4283A.5F
Manual-Clamping, 120V 60Hz	H-4276A
Manual-Clamping, 220V 50Hz	H-4276A.5F

Shipping wt. 485 lbs (220kg)

Gilson Test-Master® Screen
ASTM E11; ISO 565

The redesigned Test-Master® testing screen now features an easily controlled, integrated hopper for easier introduction of sample material and vertically-hinged front panel doors for improved access and clearance. The 1.6ft³ (45.3L) hopper is hinged at the rear and allows the sample to be introduced incrementally as the machine is running. When the hopper is closed, a panel blocks dust from escaping through the opening. The narrower panel doors require less space to open and fold flat across the front of the unit. The doors also feature a safety interlock switch that disables the Test-Master® when open.

Test-Master screen shakers are available in a six and a seven-screen tray capacity models. Both units feature the same reliable counterbalanced drive assembly, fully enclosed operation and electronic digital controller as our previous models. Sample vibration characteristics are identical to Testing Screen Shakers and the screen trays are interchangeable. Internal rotating counterweights of the Test-Master® drive system equalize the vertical screening action to assure smooth, quiet operation and prevent transfer of vibrations to other lab instruments.

Gilson Test-Master® screens are sold without screen trays or dust pans, which need to be purchased separately for operation. Specify sizes when ordering. In both models, the dust pan may optionally be placed on the bottom shelf of the unit, freeing up an additional slot for a screen tray.

Screen trays for the Test-Master® screens feature a generous 14.75" x 22.75" (375 x 578mm), 2.33ft³ (0.22m³) clear screen area. Optional Dustpan configurations can be ordered for increased capacity, reduced dust output, or dispensing of fines directly into outside bag or container. Other accessories to facilitate sample handling, dust and noise control and separation performance are listed separately. **H-4273B models feature 6-tray capacity and H-4274B models feature 7-tray capacity. Order screen trays and dust pans separately.**

Hydraulic-Clamping, 6-Tray, 120V 60Hz	H-4273B
Hydraulic-Clamping, 6-Tray, 220V 50Hz	H-4273B.5F
Hydraulic-Clamping, 7-Tray, 120V 60Hz	H-4274B
Hydraulic-Clamping, 7-Tray, 220V 50Hz	H-4274B.5F

Shipping wt. 700 lbs (318kg)


H-4288.1


H-4285


H-4283P3


H-4273DP


H-4295A
H-4297A


H-4283P4


H-4284, H-4284.5


H-4286


H-4283SE


H-4273CP


H-4307

Screen Shakers

Model	Gilson No.	Material Size	Maximum Capacity	Overall Tray Size	Dimensions inches (mm)
H-4283A	TS1	4" (104mm) to No. 200 mesh (14.75mm)	1 cu.ft. (0.3m³) 80 lbs (36kg)	18" x 26" (457 x 660mm)	23" x 31" x 33" (584 x 787 x 838)
H-4276A	TS2				
H-4273B	TM5	4" (104mm) to No. 200 mesh (14.75mm)			27" x 33" x 45" (686 x 838 x 1143)
H-4274B	TM6				
H-4295A	PS4	2" (51mm) to No. 200 (75mm)	.75 cu.ft. (0.23m³) 60 lbs (27kg)	16" x 16.5" (406 x 419mm)	19" x 16.5" x 48.3" (483 x 419 x 1222)
H-4297A	PS3				19" x 16.5" x 42" (483 x 419 x 1067)

Screen Shaker Accessories

Item	Part No.
2" (50mm) Standard Dustpan for Gilson Screen Shakers (not for use with Porta-Screen model)	H-4283P
3" (75mm) Deep Dustpan for Gilson Screen Shakers	H-4283P3
4" Deep Dustpan for Gilson Screen Shakers	H-4283P4
Two-Piece, Stationary Dustpan with Adapter for H-4273B and H-4276A	H-4273DP
Inclined Chute Pan	H-4273CP
Manual to Hydraulic Clamp Conversion Kit (serial # 13826 and higher)	H-4284

Item	Part No.
Manual Hydraulic Clamp Conversion Kit (serial # 13825 and lower)	H-4284.5
Storage Tray Rack	H-4285
Door Enclosure for H-4283, H-4276 Screen Shakers	H-4286
Clean-N-Weigh Accessory	H-4307
Digital Timer	H-4296A
Sound Enclosure	H-4283SE

Gilson Porta-Screen® Screen Shaker
ASTM E11; ISO 565

The H-4295A and H-4297A Porta-Screen® screen shakers 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 1/4hp motor, drive shaft, and connecting rod are synchronized with a rotating weight counterbalance system. All are enclosed by the enameled steel protective outer case.

The H-4295A model features slots for 7 trays and a pan while the H-4297A features slots for 5 trays and a pan. Order screen trays and dust pans separately.

Porta-Screen® (8 slots), 120V 60Hz — H-4295A
Porta-Screen® (8 slots), 220V 50Hz — H-4295A.5F

Porta-Screen® (6 slots), 120V 60Hz — H-4297A
Porta-Screen® (6 slots), 220V 50Hz — H-4297A.5F

Shipping wt. 255 lbs (116kg)

Porta-Screen Accessories

Item	Part No.
Porta Sample Pan	H-4306
Porta Cover	H-4305
Porta Wheels	H-4288.1
Porta Screen Dust Pan Tray	H-4302

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-4283A, H-4276A, H-4273B, H-4274B, H-4295A, H-4297A.**

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; and, blank trays (with no cloth) are also available, call 1.800.544.7220.**

Standard ASTM Testing Screen Trays and Cloth

ASTM Sizes		Cloth Material	18" x 26" (457 x 660mm) Models: H-4273B, H-4274B, H-4276A, H-4283A		16" x 16.5" (406 x 419mm) Models: H-4295A, H-4297A,	
			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-4278WC2.000	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-4278WC.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
850µm	No. 20	SS	H-4278F20	H-4278WF20	H-4398F20	H-4398WF20
710µm	No. 25	SS	H-4278F25	H-4278WF25	H-4398F25	H-4398WF25
600µm	No. 30	SS	H-4278F30	H-4278WF30	H-4398F30	H-4398WF30
500µm	No. 35	SS	H-4278F35	H-4278WF35	H-4398F35	H-4398WF35
425µm	No. 40	SS	H-4278F40	H-4278WF40	H-4398F40	H-4398WF40
355µm	No. 45	SS	H-4278F45	H-4278WF45	H-4398F45	H-4398WF45
300µm	No. 50	SS	H-4278F50	H-4278WF50	H-4398F50	H-4398WF50
250µm	No. 60	SS	H-4278F60	H-4278WF60	H-4398F60	H-4398WF60
212µm	No. 70	SS	H-4278F70	H-4278WF70	H-4398F70	H-4398WF70
180µm	No. 80	SS	H-4278F80	H-4278WF80	H-4398F80	H-4398WF80
150µm	No. 100	SS	H-4278F100	H-4278WF100	H-4398F100	H-4398WF100
125µm	No. 120	SS	H-4278F120	H-4278WF120	H-4398F120	H-4398WF120
106µm	No. 140	SS	H-4278F140	H-4278WF140	H-4398F140	H-4398WF140
90µm	No. 170	SS	H-4278F170	H-4278WF170	H-4398F170	H-4398WF170
75µm	No. 200	SS	H-4278F200	H-4278WF200	H-4398F200	H-4398WF200
63µm	No. 230	SS	H-4278F230	H-4278WF230	H-4398F230	H-4398WF230
53µm	No. 270	SS	H-4278F270	H-4278WF270	H-4398F270	H-4398WF270
45µm	No. 325	SS	H-4278F325	H-4278WF325	H-4398F325	H-4398WF325
38µm	No. 400	SS	H-4278F400	H-4278WF400	H-4398F400	H-4398WF400

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
900µm	SS	H-8900TC.900	H-8900C.900
400µm	SS	H-8900TC.400	H-8900C.400
160µm	SS	H-8900TC.160	H-8900C.160

NOTES

Non-ASTM sizes— .125" and .0125"— are available, please inquire: 1-800-544-7220.

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	850µm
No. 25	0.027	710µm
No. 30	0.023	600µm
No. 35	0.019	50µm
No. 40	0.016	425µm
No. 45	0.013	355µm
No. 50	0.011	300µm
No. 60	0.009	250µm
No. 70	0.008	212µm
No. 80	0.007	180µm
No. 100	0.005	150µm
No. 120	0.0049	125µm
No. 140	0.0041	106µm
No. 170	0.0035	90µm
No. 200	0.0029	75µm
No. 230	0.0024	62µm
No. 270	0.0020	53µm
No. 325	0.0017	45µm
No. 400	0.0014	38µm
No. 450	0.0012	32µm
No. 500	0.0009	25µm
No. 635	0.0007	20µm
No. 850	0.0004	10µm
No. 1000	0.00008	2µm

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 in brass frame with stainless steel mesh or stainless steel frame and 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— 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

STANDARD

8"

203mm

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
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 (850µm)	H-3920FS20	H-3910FS20	H-3920FSS20	H-3910FSS20
No. 25 (710µm)	H-3920FS25	H-3910FS25	H-3920FSS25	H-3910FSS25
No. 30 (600µm)	H-3920FS30	H-3910FS30	H-3920FSS30	H-3910FSS30
No. 35 (500µm)	H-3920FS35	H-3910FS35	H-3920FSS35	H-3910FSS35
No. 40 (425µm)	H-3920FS40	H-3910FS40	H-3920FSS40	H-3910FSS40
No. 45 (355µm)	H-3920FS45	H-3910FS45	H-3920FSS45	H-3910FSS45
No. 50 (300µm)	H-3920FS50	H-3910FS50	H-3920FSS50	H-3910FSS50
No. 60 (250µm)	H-3920FS60	H-3910FS60	H-3920FSS60	H-3910FSS60
No. 70 (212µm)	H-3920FS70	H-3910FS70	H-3920FSS70	H-3910FSS70
No. 80 (180µm)	H-3920FS80	H-3910FS80	H-3920FSS80	H-3910FSS80
No. 100 (150µm)	H-3920FS100	H-3910FS100	H-3920FSS100	H-3910FSS100
No. 120 (125µm)	H-3920FS120	H-3910FS120	H-3920FSS120	H-3910FSS120
No. 140 (106µm)	H-3920FS140	H-3910FS140	H-3920FSS140	H-3910FSS140
No. 170 (90µm)	H-3920FS170	H-3910FS170	H-3920FSS170	H-3910FSS170
No. 200 (75µm)	H-3920FS200	H-3910FS200	H-3920FSS200	H-3910FSS200
No. 230 (63µm)	H-3920FS230	H-3910FS230	H-3920FSS230	H-3910FSS230
No. 270 (53µm)	H-3920FS270	H-3910FS270	H-3920FSS270	H-3910FSS270
No. 325 (45µm)	H-3920FS325	H-3910FS325	H-3920FSS325	H-3910FSS325
No. 400 (38µm)	H-3920FS400	H-3910FS400	H-3920FSS400	H-3910FSS400
No. 450 (32µm)	H-3920FS450	H-3910FS450	H-3920FSS450	H-3910FSS450
No. 500 (25µm)	H-3920FS500	H-3910FS500	H-3920FSS500	H-3910FSS500
No. 635 (20µm)	H-3920FS635	H-3910FS635	H-3920FSS635	H-3910FSS635
No. 850 (10µm)	H-3920FS850	H-3910FS850	–	–
No. 1000 (2µm)	H-3920FS1000	H-3910FS1000	–	–

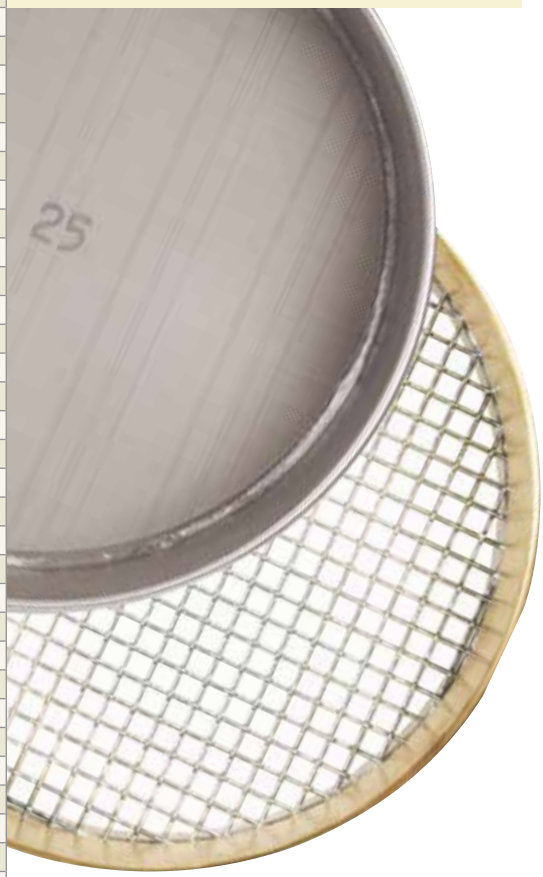
USA Standard ASTM Test Sieves

STANDARD

12"

305mm

Sieve Size	Brass Frame Stainless Mesh			Stainless Frame Stainless Mesh	
	Full Height 3" (75mm)	Inter. Height 2" (50mm)	Half Height 1.625" (41mm)	Full Height 3" (75mm)	Half Height 1.625" (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
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 (850µm)	H-3912FS20	H-3922FS20	H-3932FS20	H-3912FSS20	H-3932FSS20
No. 25 (710µm)	H-3912FS25	H-3922FS25	H-3932FS25	H-3912FSS25	H-3932FSS25
No. 30 (600µm)	H-3912FS30	H-3922FS30	H-3932FS30	H-3912FSS30	H-3932FSS30
No. 35 (500µm)	H-3912FS35	H-3922FS35	H-3932FS35	H-3912FSS35	H-3932FSS35
No. 40 (425µm)	H-3912FS40	H-3922FS40	H-3932FS40	H-3912FSS40	H-3932FSS40
No. 45 (355µm)	H-3912FS45	H-3922FS45	H-3932FS45	H-3912FSS45	H-3932FSS45
No. 50 (300µm)	H-3912FS50	H-3922FS50	H-3932FS50	H-3912FSS50	H-3932FSS50
No. 60 (250µm)	H-3912FS60	H-3922FS60	H-3932FS60	H-3912FSS60	H-3932FSS60
No. 70 (212µm)	H-3912FS70	H-3922FS70	H-3932FS70	H-3912FSS70	H-3932FSS70
No. 80 (180µm)	H-3912FS80	H-3922FS80	H-3932FS80	H-3912FSS80	H-3932FSS80
No. 100 (150µm)	H-3912FS100	H-3922FS100	H-3932FS100	H-3912FSS100	H-3932FSS100
No. 120 (125µm)	H-3912FS120	H-3922FS120	H-3932FS120	H-3912FSS120	H-3932FSS120
No. 140 (106µm)	H-3912FS140	H-3922FS140	H-3932FS140	H-3912FSS140	H-3932FSS140
No. 170 (90µm)	H-3912FS170	H-3922FS170	H-3932FS170	H-3912FSS170	H-3932FSS170
No. 200 (75µm)	H-3912FS200	H-3922FS200	H-3932FS200	H-3912FSS200	H-3932FSS200
No. 230 (63µm)	H-3912FS230	H-3922FS230	H-3932FS230	H-3912FSS230	H-3932FSS230
No. 270 (53µm)	H-3912FS270	H-3922FS270	H-3932FS270	H-3912FSS270	H-3932FSS270
No. 325 (45µm)	H-3912FS325	H-3922FS325	H-3932FS325	H-3912FSS325	H-3932FSS325
No. 400 (38µm)	H-3912FS400	H-3922FS400	H-3932FS400	H-3912FSS400	H-3932FSS400
No. 450 (32µm)	H-3912FS450	H-3922FS450	H-3932FS450	H-3912FSS450	H-3932FSS450
No. 500 (25µm)	H-3912FS500	H-3922FS500	H-3932FS500	H-3912FSS500	H-3932FSS500
No. 635 (20µm)	H-3912FS635	H-3922FS635	H-3932FS635	H-3912FSS635	H-3932FSS635
No. 850 (10µm)	H-3912FS850	H-3922FS850	H-3932FS850	–	–
No. 1000 (2µm)	H-3912FS1000	H-3922FS1000	H-3932FS1000	–	–



USA Standard ASTM Inspection Test Sieves

Inspection Test Sieves are used when accuracy and repeatability are paramount. Inspection Test Sieves start with our Standard ASTM Sieves and include an added Inspection level verification. This verification specifies the number of openings in each sieve after the cloth has been mounted to the frame. Inspection Test Sieves provides a 99% level of confidence that the standard deviation of these openings is within the maximum allowed by ASTM. An Inspection verification is provided with each sieve.

INSPECTION

8"

203mm

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)	HI-3920CS4.000	HI-3910CS4.000	HI-3920CSS4.000	HI-3910CSS4.000
3-1/2" (90mm)	HI-3920CS3.500	HI-3910CS3.500	HI-3920CSS3.500	HI-3910CSS3.500
3" (75mm)	HI-3920CS3.000	HI-3910CS3.000	HI-3920CSS3.000	HI-3910CSS3.000
2-1/2' (63mm)	HI-3920CS2.500	HI-3910CS2.500	HI-3920CSS2.500	HI-3910CSS2.500
2.12" (53mm)	HI-3920CS2.120	HI-3910CS2.120	HI-3920CSS2.120	HI-3910CSS2.120
2" (50mm)	HI-3920CS2.000	HI-3910CS2.000	HI-3920CSS2.000	HI-3910CSS2.000
1-3/4" (45mm)	HI-3920CS1.750	HI-3910CS1.750	HI-3920CSS1.750	HI-3910CSS1.750
1-1/2" (37.5mm)	HI-3920CS1.500	HI-3910CS1.500	HI-3920CSS1.500	HI-3910CSS1.500
1-1/4" (31.5mm)	HI-3920CS1.250	HI-3910CS1.250	HI-3920CSS1.250	HI-3910CSS1.250
1.06" (26.5mm)	HI-3920CS1.060	HI-3910CS1.060	HI-3920CSS1.060	HI-3910CSS1.060
1" (25.0mm)	HI-3920CS1.000	HI-3910CS1.000	HI-3920CSS1.000	HI-3910CSS1.000
7/8" (22.4mm)	HI-3920CS.875	HI-3910CS.875	HI-3920CSS.875	HI-3910CSS.875
3/4" (19.0mm)	HI-3920CS.750	HI-3910CS.750	HI-3920CSS.750	HI-3910CSS.750
5/8" (16.0mm)	HI-3920CS.625	HI-3910CS.625	HI-3920CSS.625	HI-3910CSS.625
0.530" (13.2mm)	HI-3920CS.530	HI-3910CS.530	HI-3920CSS.530	HI-3910CSS.530
1/2" (12.5mm)	HI-3920CS.500	HI-3910CS.500	HI-3920CSS.500	HI-3910CSS.500
7/16" (11.2mm)	HI-3920CS.438	HI-3910CS.438	HI-3920CSS.438	HI-3910CSS.438
3/8" (9.5mm)	HI-3920CS.375	HI-3910CS.375	HI-3920CSS.375	HI-3910CSS.375
5/16" (8.0mm)	HI-3920CS.312	HI-3910CS.312	HI-3920CSS.312	HI-3910CSS.312
0.265" (6.7mm)	HI-3920CS.265	HI-3910CS.265	HI-3920CSS.265	HI-3910CSS.265
1/4" (6.3mm)	HI-3920CS.250	HI-3910CS.250	HI-3920CSS.250	HI-3910CSS.250
1/8" (3.17mm)	HI-3920CS.125	HI-3910CS.125	HI-3920CSS.125	HI-3910CSS.125
No. 3-1/2 (5.6mm)	HI-3920FS3-1/2	HI-3910FS3-1/2	HI-3920FSS3-1/2	HI-3910FSS3-1/2
No. 4 (4.75mm)	HI-3920FS4	HI-3910FS4	HI-3920FSS4	HI-3910FSS4
No. 5 (4.0mm)	HI-3920FS5	HI-3910FS5	HI-3920FSS5	HI-3910FSS5
No. 6 (3.35mm)	HI-3920FS6	HI-3910FS6	HI-3920FSS6	HI-3910FSS6
No. 7 (2.80mm)	HI-3920FS7	HI-3910FS7	HI-3920FSS7	HI-3910FSS7
No. 8 (2.36mm)	HI-3920FS8	HI-3910FS8	HI-3920FSS8	HI-3910FSS8
No. 10 (2.00mm)	HI-3920FS10	HI-3910FS10	HI-3920FSS10	HI-3910FSS10
No. 12 (1.70mm)	HI-3920FS12	HI-3910FS12	HI-3920FSS12	HI-3910FSS12
No. 14 (1.40mm)	HI-3920FS14	HI-3910FS14	HI-3920FSS14	HI-3910FSS14
No. 16 (1.18mm)	HI-3920FS16	HI-3910FS16	HI-3920FSS16	HI-3910FSS16
No. 18 (1.0mm)	HI-3920FS18	HI-3910FS18	HI-3920FSS18	HI-3910FSS18
No. 20 (850µm)	HI-3920FS20	HI-3910FS20	HI-3920FSS20	HI-3910FSS20
No. 25 (710µm)	HI-3920FS25	HI-3910FS25	HI-3920FSS25	HI-3910FSS25
No. 30 (600µm)	HI-3920FS30	HI-3910FS30	HI-3920FSS30	HI-3910FSS30
No. 35 (500µm)	HI-3920FS35	HI-3910FS35	HI-3920FSS35	HI-3910FSS35
No. 40 (425µm)	HI-3920FS40	HI-3910FS40	HI-3920FSS40	HI-3910FSS40
No. 45 (355µm)	HI-3920FS45	HI-3910FS45	HI-3920FSS45	HI-3910FSS45
No. 50 (300µm)	HI-3920FS50	HI-3910FS50	HI-3920FSS50	HI-3910FSS50
No. 60 (250µm)	HI-3920FS60	HI-3910FS60	HI-3920FSS60	HI-3910FSS60
No. 70 (212µm)	HI-3920FS70	HI-3910FS70	HI-3920FSS70	HI-3910FSS70
No. 80 (180µm)	HI-3920FS80	HI-3910FS80	HI-3920FSS80	HI-3910FSS80
No. 100 (150µm)	HI-3920FS100	HI-3910FS100	HI-3920FSS100	HI-3910FSS100
No. 120 (125µm)	HI-3920FS120	HI-3910FS120	HI-3920FSS120	HI-3910FSS120
No. 140 (106µm)	HI-3920FS140	HI-3910FS140	HI-3920FSS140	HI-3910FSS140
No. 170 (90µm)	HI-3920FS170	HI-3910FS170	HI-3920FSS170	HI-3910FSS170
No. 200 (75µm)	HI-3920FS200	HI-3910FS200	HI-3920FSS200	HI-3910FSS200
No. 230 (63µm)	HI-3920FS230	HI-3910FS230	HI-3920FSS230	HI-3910FSS230
No. 270 (53µm)	HI-3920FS270	HI-3910FS270	HI-3920FSS270	HI-3910FSS270
No. 325 (45µm)	HI-3920FS325	HI-3910FS325	HI-3920FSS325	HI-3910FSS325
No. 400 (38µm)	HI-3920FS400	HI-3910FS400	HI-3920FSS400	HI-3910FSS400
No. 450 (32µm)	HI-3920FS450	HI-3910FS450	HI-3920FSS450	HI-3910FSS450
No. 500 (25µm)	HI-3920FS500	HI-3910FS500	HI-3920FSS500	HI-3910FSS500
No. 635 (20µm)	HI-3920FS635	HI-3910FS635	HI-3920FSS635	HI-3910FSS635
No. 850 (10µm)	HI-3920FS850	HI-3910FS850	–	–
No. 1000 (2µm)	HI-3920FS1000	HI-3910FS1000	–	–

Sieve Size	Brass Frame Stainless Mesh			Stainless Frame Stainless Mesh	
	Full Height 3" (75mm)	Inter. Height 2" (50mm)	Half Height 1.625" (41mm)	Full Height 3" (75mm)	Half Height 1.625" (41mm)
4" (100mm)	HI-3912CS4.000	HI-3922CS4.000	HI-3932CS4.000	HI-3912CSS4.000	HI-3932CSS4.000
3-1/2" (90mm)	HI-3912CS3.500	HI-3922CS3.500	HI-3932CS3.500	HI-3912CSS3.500	HI-3932CSS3.500
3" (75mm)	HI-3912CS3.000	HI-3922CS3.000	HI-3932CS3.000	HI-3912CSS3.000	HI-3932CSS3.000
2-1/2' (63mm)	HI-3912CS2.500	HI-3922CS2.500	HI-3932CS2.500	HI-3912CSS2.500	HI-3932CSS2.500
2.12" (53mm)	HI-3912CS2.120	HI-3922CS2.120	HI-3932CS2.120	HI-3912CSS2.120	HI-3932CSS2.120
2" (50mm)	HI-3912CS2.000	HI-3922CS2.000	HI-3932CS2.000	HI-3912CSS2.000	HI-3932CSS2.000
1-3/4" (45mm)	HI-3912CS1.750	HI-3922CS1.750	HI-3932CS1.750	HI-3912CSS1.750	HI-3932CSS1.750
1-1/2" (37.5mm)	HI-3912CS1.500	HI-3922CS1.500	HI-3932CS1.500	HI-3912CSS1.500	HI-3932CSS1.500
1-1/4" (31.5mm)	HI-3912CS1.250	HI-3922CS1.250	HI-3932CS1.250	HI-3912CSS1.250	HI-3932CSS1.250
1.06" (26.5mm)	HI-3912CS1.060	HI-3922CS1.060	HI-3932CS1.060	HI-3912CSS1.060	HI-3932CSS1.060
1" (25.0mm)	HI-3912CS1.000	HI-3922CS1.000	HI-3932CS1.000	HI-3912CSS1.000	HI-3932CSS1.000
7/8" (22.4mm)	HI-3912CS.875	HI-3922CS.875	HI-3932CS.875	HI-3912CSS.875	HI-3932CSS.875
3/4" (19.0mm)	HI-3912CS.750	HI-3922CS.750	HI-3932CS.750	HI-3912CSS.750	HI-3932CSS.750
5/8" (16.0mm)	HI-3912CS.625	HI-3922CS.625	HI-3932CS.625	HI-3912CSS.625	HI-3932CSS.625
0.530" (13.2mm)	HI-3912CS.530	HI-3922CS.530	HI-3932CS.530	HI-3912CSS.530	HI-3932CSS.530
1/2" (12.5mm)	HI-3912CS.500	HI-3922CS.500	HI-3932CS.500	HI-3912CSS.500	HI-3932CSS.500
7/16" (11.2mm)	HI-3912CS.438	HI-3922CS.438	HI-3932CS.438	HI-3912CSS.438	HI-3932CSS.438
3/8" (9.5mm)	HI-3912CS.375	HI-3922CS.375	HI-3932CS.375	HI-3912CSS.375	HI-3932CSS.375
5/16" (8.0mm)	HI-3912CS.312	HI-3922CS.312	HI-3932CS.312	HI-3912CSS.312	HI-3932CSS.312
0.265" (6.7mm)	HI-3912CS.265	HI-3922CS.265	HI-3932CS.265	HI-3912CSS.265	HI-3932CSS.265
1/4" (6.3mm)	HI-3912CS.250	HI-3922CS.250	HI-3932CS.250	HI-3912CSS.250	HI-3932CSS.250
1/8" (3.17mm)	HI-3912CS.125	HI-3922CS.125	HI-3932CS.125	–	HI-3932CSS.125

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

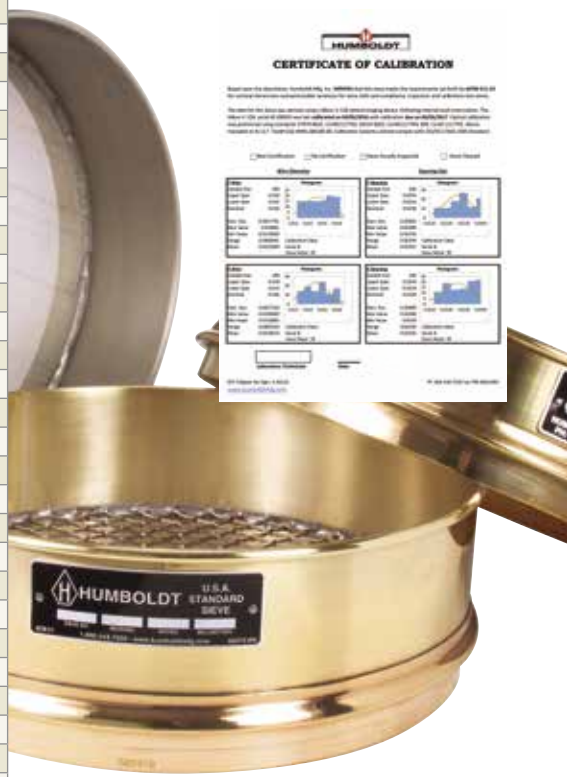
USA Standard ASTM Inspection Test Sieves

Inspection Test Sieves are used when accuracy and repeatability are paramount. Inspection Test Sieves start with our Standard ASTM Sieves and include an added Inspection level verification. This verification specifies the number of openings in each sieve after the cloth has been mounted to the frame. Inspection Test Sieves provides a 99% level of confidence that the standard deviation of these openings is within the maximum allowed by ASTM. An Inspection verification is provided with each sieve.

INSPECTION

12"

305mm



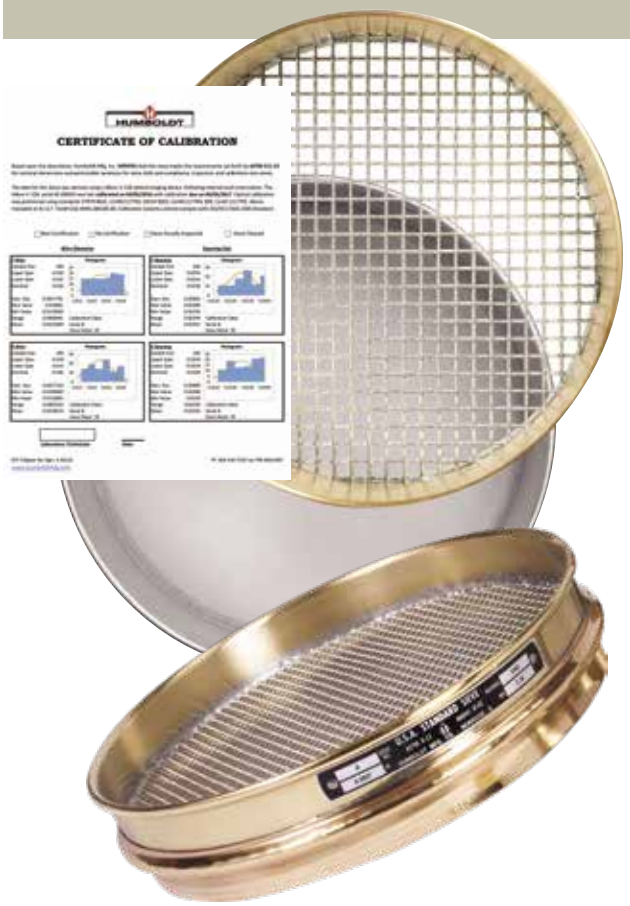
USA Standard ASTM Calibration Test Sieves

Calibration Test Sieves are used when the application demands the highest accuracy and repeatability available. Calibration Test Sieves start with our Standard ASTM Sieves and include an added calibration level verification. This verification measures about twice as many openings in the sieve as is done for an Inspection Sieve. Calibration Test Sieves provide a 99.73% level of confidence that the standard deviation of these openings is within the maximum allowed by ASTM. A Calibration verification is provided with each sieve.

CALIBRATION

8"

203mm



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)	HC-3920CS4.000	HC-3910CS4.000	HC-3920CSS4.000	HC-3910CSS4.000
3-1/2" (90mm)	HC-3920CS3.500	HC-3910CS3.500	HC-3920CSS3.500	HC-3910CSS3.500
3" (75mm)	HC-3920CS3.000	HC-3910CS3.000	HC-3920CSS3.000	HC-3910CSS3.000
2-1/2' (63mm)	HC-3920CS2.500	HC-3910CS2.500	HC-3920CSS2.500	HC-3910CSS2.500
2.12" (53mm)	HC-3920CS2.120	HC-3910CS2.120	HC-3920CSS2.120	HC-3910CSS2.120
2" (50mm)	HC-3920CS2.000	HC-3910CS2.000	HC-3920CSS2.000	HC-3910CSS2.000
1-3/4" (45mm)	HC-3920CS1.750	HC-3910CS1.750	HC-3920CSS1.750	HC-3910CSS1.750
1-1/2" (37.5mm)	HC-3920CS1.500	HC-3910CS1.500	HC-3920CSS1.500	HC-3910CSS1.500
1-1/4" (31.5mm)	HC-3920CS1.250	HC-3910CS1.250	HC-3920CSS1.250	HC-3910CSS1.250
1.06" (26.5mm)	HC-3920CS1.060	HC-3910CS1.060	HC-3920CSS1.060	HC-3910CSS1.060
1" (25.0mm)	HC-3920CS1.000	HC-3910CS1.000	HC-3920CSS1.000	HC-3910CSS1.000
7/8" (22.4mm)	HC-3920CS.875	HC-3910CS.875	HC-3920CSS.875	HC-3910CSS.875
3/4" (19.0mm)	HC-3920CS.750	HC-3910CS.750	HC-3920CSS.750	HC-3910CSS.750
5/8" (16.0mm)	HC-3920CS.625	HC-3910CS.625	HC-3920CSS.625	HC-3910CSS.625
0.530" (13.2mm)	HC-3920CS.530	HC-3910CS.530	HC-3920CSS.530	HC-3910CSS.530
1/2" (12.5mm)	HC-3920CS.500	HC-3910CS.500	HC-3920CSS.500	HC-3910CSS.500
7/16" (11.2mm)	HC-3920CS.438	HC-3910CS.438	HC-3920CSS.438	HC-3910CSS.438
3/8" (9.5mm)	HC-3920CS.375	HC-3910CS.375	HC-3920CSS.375	HC-3910CSS.375
5/16" (8.0mm)	HC-3920CS.312	HC-3910CS.312	HC-3920CSS.312	HC-3910CSS.312
0.265" (6.7mm)	HC-3920CS.265	HC-3910CS.265	HC-3920CSS.265	HC-3910CSS.265
1/4" (6.3mm)	HC-3920CS.250	HC-3910CS.250	HC-3920CSS.250	HC-3910CSS.250
1/8" (3.17mm)	HC-3920CS.125	HC-3910CS.125	HC-3920CSS.125	HC-3910CSS.125
No. 3-1/2 (5.6mm)	HC-3920FS3-1/2	HC-3910FS3-1/2	HC-3920FSS3-1/2	HC-3910FSS3-1/2
No. 4 (4.75mm)	HC-3920FS4	HC-3910FS4	HC-3920FSS4	HC-3910FSS4
No. 5 (4.0mm)	HC-3920FS5	HC-3910FS5	HC-3920FSS5	HC-3910FSS5
No. 6 (3.35mm)	HC-3920FS6	HC-3910FS6	HC-3920FSS6	HC-3910FSS6
No. 7 (2.80mm)	HC-3920FS7	HC-3910FS7	HC-3920FSS7	HC-3910FSS7
No. 8 (2.36mm)	HC-3920FS8	HC-3910FS8	HC-3920FSS8	HC-3910FSS8
No. 10 (2.00mm)	HC-3920FS10	HC-3910FS10	HC-3920FSS10	HC-3910FSS10
No. 12 (1.70mm)	HC-3920FS12	HC-3910FS12	HC-3920FSS12	HC-3910FSS12
No. 14 (1.40mm)	HC-3920FS14	HC-3910FS14	HC-3920FSS14	HC-3910FSS14
No. 16 (1.18mm)	HC-3920FS16	HC-3910FS16	HC-3920FSS16	HC-3910FSS16
No. 18 (1.0mm)	HC-3920FS18	HC-3910FS18	HC-3920FSS18	HC-3910FSS18
No. 20 (850µm)	HC-3920FS20	HC-3910FS20	HC-3920FSS20	HC-3910FSS20
No. 25 (710µm)	HC-3920FS25	HC-3910FS25	HC-3920FSS25	HC-3910FSS25
No. 30 (600µm)	HC-3920FS30	HC-3910FS30	HC-3920FSS30	HC-3910FSS30
No. 35 (500µm)	HC-3920FS35	HC-3910FS35	HC-3920FSS35	HC-3910FSS35
No. 40 (425µm)	HC-3920FS40	HC-3910FS40	HC-3920FSS40	HC-3910FSS40
No. 45 (355µm)	HC-3920FS45	HC-3910FS45	HC-3920FSS45	HC-3910FSS45
No. 50 (300µm)	HC-3920FS50	HC-3910FS50	HC-3920FSS50	HC-3910FSS50
No. 60 (250µm)	HC-3920FS60	HC-3910FS60	HC-3920FSS60	HC-3910FSS60
No. 70 (212µm)	HC-3920FS70	HC-3910FS70	HC-3920FSS70	HC-3910FSS70
No. 80 (180µm)	HC-3920FS80	HC-3910FS80	HC-3920FSS80	HC-3910FSS80
No. 100 (150µm)	HC-3920FS100	HC-3910FS100	HC-3920FSS100	HC-3910FSS100
No. 120 (125µm)	HC-3920FS120	HC-3910FS120	HC-3920FSS120	HC-3910FSS120
No. 140 (106µm)	HC-3920FS140	HC-3910FS140	HC-3920FSS140	HC-3910FSS140
No. 170 (90µm)	HC-3920FS170	HC-3910FS170	HC-3920FSS170	HC-3910FSS170
No. 200 (75µm)	HC-3920FS200	HC-3910FS200	HC-3920FSS200	HC-3910FSS200
No. 230 (63µm)	HC-3920FS230	HC-3910FS230	HC-3920FSS230	HC-3910FSS230
No. 270 (53µm)	HC-3920FS270	HC-3910FS270	HC-3920FSS270	HC-3910FSS270
No. 325 (45µm)	HC-3920FS325	HC-3910FS325	HC-3920FSS325	HC-3910FSS325
No. 400 (38µm)	HC-3920FS400	HC-3910FS400	HC-3920FSS400	HC-3910FSS400
No. 450 (32µm)	HC-3920FS450	HC-3910FS450	HC-3920FSS450	HC-3910FSS450
No. 500 (25µm)	HC-3920FS500	HC-3910FS500	HC-3920FSS500	HC-3910FSS500
No. 635 (20µm)	HC-3920FS635	HC-3910FS635	HC-3920FSS635	HC-3910FSS635
No. 850 (10µm)	HC-3920FS850	HC-3910FS850	–	–
No. 1000 (2µm)	HC-3920FS1000	HC-3910FS1000	–	–

Sieve Size	Brass Frame Stainless Mesh			Stainless Frame Stainless Mesh	
	Full Height 3" (75mm)	Inter. Height 2" (50mm)	Half Height 1.625" (41mm)	Full Height 3" (75mm)	Half Height 1.625" (41mm)
4" (100mm)	HC-3912CS4.000	HC-3922CS4.000	HC-3932CS4.000	HC-3912CSS4.000	HC-3932CSS4.000
3-1/2" (90mm)	HC-3912CS3.500	HC-3922CS3.500	HC-3932CS3.500	HC-3912CSS3.500	HC-3932CSS3.500
3" (75mm)	HC-3912CS3.000	HC-3922CS3.000	HC-3932CS3.000	HC-3912CSS3.000	HC-3932CSS3.000
2-1/2' (63mm)	HC-3912CS2.500	HC-3922CS2.500	HC-3932CS2.500	HC-3912CSS2.500	HC-3932CSS2.500
2.12" (53mm)	HC-3912CS2.120	HC-3922CS2.120	HC-3932CS2.120	HC-3912CSS2.120	HC-3932CSS2.120
2" (50mm)	HC-3912CS2.000	HC-3922CS2.000	HC-3932CS2.000	HC-3912CSS2.000	HC-3932CSS2.000
1-3/4" (45mm)	HC-3912CS1.750	HC-3922CS1.750	HC-3932CS1.750	HC-3912CSS1.750	HC-3932CSS1.750
1-1/2" (37.5mm)	HC-3912CS1.500	HC-3922CS1.500	HC-3932CS1.500	HC-3912CSS1.500	HC-3932CSS1.500
1-1/4" (31.5mm)	HC-3912CS1.250	HC-3922CS1.250	HC-3932CS1.250	HC-3912CSS1.250	HC-3932CSS1.250
1.06" (26.5mm)	HC-3912CS1.060	HC-3922CS1.060	HC-3932CS1.060	HC-3912CSS1.060	HC-3932CSS1.060
1" (25.0mm)	HC-3912CS1.000	HC-3922CS1.000	HC-3932CS1.000	HC-3912CSS1.000	HC-3932CSS1.000
7/8" (22.4mm)	HC-3912CS.875	HC-3922CS.875	HC-3932CS.875	HC-3912CSS.875	HC-3932CSS.875
3/4" (19.0mm)	HC-3912CS.750	HC-3922CS.750	HC-3932CS.750	HC-3912CSS.750	HC-3932CSS.750
5/8" (16.0mm)	HC-3912CS.625	HC-3922CS.625	HC-3932CS.625	HC-3912CSS.625	HC-3932CSS.625
0.530" (13.2mm)	HC-3912CS.530	HC-3922CS.530	HC-3932CS.530	HC-3912CSS.530	HC-3932CSS.530
1/2" (12.5mm)	HC-3912CS.500	HC-3922CS.500	HC-3932CS.500	HC-3912CSS.500	HC-3932CSS.500
7/16" (11.2mm)	HC-3912CS.438	HC-3922CS.438	HC-3932CS.438	HC-3912CSS.438	HC-3932CSS.438
3/8" (9.5mm)	HC-3912CS.375	HC-3922CS.375	HC-3932CS.375	HC-3912CSS.375	HC-3932CSS.375
5/16" (8.0mm)	HC-3912CS.312	HC-3922CS.312	HC-3932CS.312	HC-3912CSS.312	HC-3932CSS.312
0.265" (6.7mm)	HC-3912CS.265	HC-3922CS.265	HC-3932CS.265	HC-3912CSS.265	HC-3932CSS.265
1/4" (6.3mm)	HC-3912CS.250	HC-3922CS.250	HC-3932CS.250	HC-3912CSS.250	HC-3932CSS.250
1/8" (3.17mm)	HC-3912CS.125	HC-3922CS.125	HC-3932CS.125	–	HC-3932CSS.125
No. 3-1/2 (5.6mm)	HC-3912FS3-1/2	HC-3922FS3-1/2	HC-3932FS3-1/2	HC-3912FSS3-1/2	HC-3932FSS3-1/2
No. 4 (4.75mm)	HC-3912FS4	HC-3922FS4	HC-3932FS4	HC-3912FSS4	HC-3932FSS4
No. 5 (4.0mm)	HC-3912FS5	HC-3922FS5	HC-3932FS5	HC-3912FSS5	HC-3932FSS5
No. 6 (3.35mm)	HC-3912FS6	HC-3922FS6	HC-3932FS6	HC-3912FSS6	HC-3932FSS6
No. 7 (2.80mm)	HC-3912FS7	HC-3922FS7	HC-3932FS7	HC-3912FSS7	HC-3932FSS7
No. 8 (2.36mm)	HC-3912FS8	HC-3922FS8	HC-3932FS8	HC-3912FSS8	HC-3932FSS8
No. 10 (2.00mm)	HC-3912FS10	HC-3922FS10	HC-3932FS10	HC-3912FSS10	HC-3932FSS10
No. 12 (1.70mm)	HC-3912FS12	HC-3922FS12	HC-3932FS12	HC-3912FSS12	HC-3932FSS12
No. 14 (1.40mm)	HC-3912FS14	HC-3922FS14	HC-3932FS14	HC-3912FSS14	HC-3932FSS14
No. 16 (1.18mm)	HC-3912FS16	HC-3922FS16	HC-3932FS16	HC-3912FSS16	HC-3932FSS16
No. 18 (1.0mm)	HC-3912FS18	HC-3922FS18	HC-3932FS18	HC-3912FSS18	HC-3932FSS18
No. 20 (850µm)	HC-3912FS20	HC-3922FS20	HC-3932FS20	HC-3912FSS20	HC-3932FSS20
No. 25 (710µm)	HC-3912FS25	HC-3922FS25	HC-3932FS25	HC-3912FSS25	HC-3932FSS25
No. 30 (600µm)	HC-3912FS30	HC-3922FS30	HC-3932FS30	HC-3912FSS30	HC-3932FSS30
No. 35 (500µm)	HC-3912FS35	HC-3922FS35	HC-3932FS35	HC-3912FSS35	HC-3932FSS35
No. 40 (425µm)	HC-3912FS40	HC-3922FS40	HC-3932FS40	HC-3912FSS40	HC-3932FSS40
No. 45 (355µm)	HC-3912FS45	HC-3922FS45	HC-3932FS45	HC-3912FSS45	HC-3932FSS45
No. 50 (300µm)	HC-3912FS50	HC-3922FS50	HC-3932FS50	HC-3912FSS50	HC-3932FSS50
No. 60 (250µm)	HC-3912FS60	HC-3922FS60	HC-3932FS60	HC-3912FSS60	HC-3932FSS60
No. 70 (212µm)	HC-3912FS70	HC-3922FS70	HC-3932FS70	HC-3912FSS70	HC-3932FSS70
No. 80 (180µm)	HC-3912FS80	HC-3922FS80	HC-3932FS80	HC-3912FSS80	HC-3932FSS80
No. 100 (150µm)	HC-3912FS100	HC-3922FS100	HC-3932FS100	HC-3912FSS100	HC-3932FSS100
No. 120 (125µm)	HC-3912FS120	HC-3922FS120	HC-3932FS120	HC-3912FSS120	HC-3932FSS120
No. 140 (106µm)	HC-3912FS140	HC-3922FS140	HC-3932FS140	HC-3912FSS140	HC-3932FSS140
No. 170 (90µm)	HC-3912FS170	HC-3922FS170	HC-3932FS170	HC-3912FSS170	HC-3932FSS170
No. 200 (75µm)	HC-3912FS200	HC-3922FS200	HC-3932FS200	HC-3912FSS200	HC-3932FSS200
No. 230 (63µm)	HC-3912FS230	HC-3922FS230	HC-3932FS230	HC-3912FSS230	HC-3932FSS230
No. 270 (53µm)	HC-3912FS270	HC-3922FS270	HC-3932FS270	HC-3912FSS270	HC-3932FSS270
No. 325 (45µm)	HC-3912FS325	HC-3922FS325	HC-3932FS325	HC-3912FSS325	HC-3932FSS325
No. 400 (38µm)	HC-3912FS400	HC-3922FS400	HC-3932FS400	HC-3912FSS400	HC-3932FSS400
No. 450 (32µm)	HC-3912FS450	HC-3922FS450	HC-3932FS450	HC-3912FSS450	HC-3932FSS450
No. 500 (25µm)	HC-3912FS500	HC-3922FS500	HC-3932FS500	HC-3912FSS500	HC-3932FSS500
No. 635 (20µm)	HC-3912FS635	HC-3922FS635	HC-3932FS635	HC-3912FSS635	HC-3932FSS635
No. 850 (10µm)	HC-3912FS850	HC-3922FS850	HC-3932FS850	–	–
No. 1000 (2µm)	HC-3912FS1000	HC-3922FS1000	HC-3932FS1000	–	–

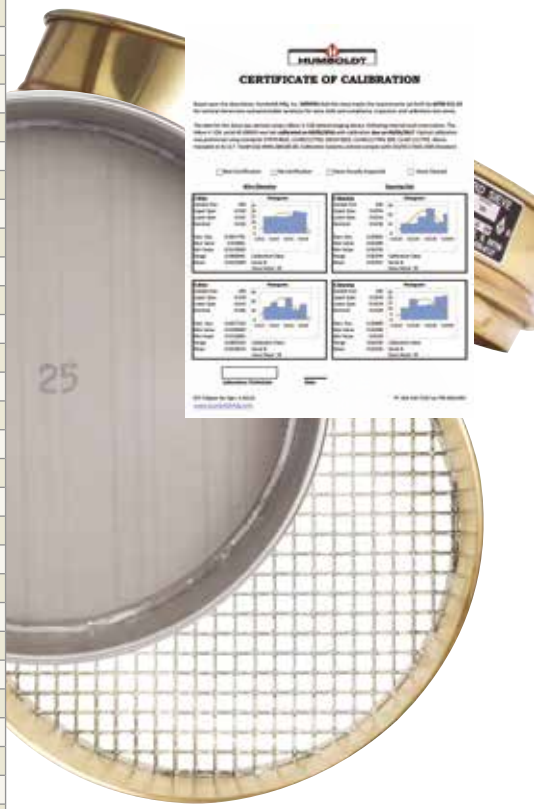
USA Standard ASTM Calibration Test Sieves

Calibration Test Sieves are used when the application demands the highest accuracy and repeatability available. Calibration Test Sieves start with our Standard ASTM Sieves and include an added calibration level verification. This verification measures about twice as many openings in the sieve as is done for an Inspection Sieve. Calibration Test Sieves provide a 99.73% level of confidence that the standard deviation of these openings is within the maximum allowed by ASTM. A Calibration verification is provided with each sieve.

CALIBRATION

12"

305mm



Deep, USA Standard ASTM Test Sieves

STANDARD

4" **12"**

101mm **305mm**

Sieve Size	4" Diameter		12" Diameter	
	Brass Frame, Stainless Mesh		Brass Frame, Stainless Mesh	
	1.5" 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-3938CS.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

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 (850µm)	H-3914FS20	H-3924FS20	H-3928FS20	H-3938FS20
No. 25 (710µm)	H-3914FS25	H-3924FS25	H-3928FS25	H-3938FS25
No. 30 (600µm)	H-3914FS30	H-3924FS30	H-3928FS30	H-3938FS30
No. 35 (500µm)	H-3914FS35	H-3924FS35	H-3928FS35	H-3938FS35
No. 40 (425µm)	H-3914FS40	H-3924FS40	H-3928FS40	H-3938FS40
No. 45 (355µm)	H-3914FS45	H-3924FS45	H-3928FS45	H-3938FS45
No. 50 (300µm)	H-3914FS50	H-3924FS50	H-3928FS50	H-3938FS50
No. 60 (250µm)	H-3914FS60	H-3924FS60	H-3928FS60	H-3938FS60
No. 70 (212µm)	H-3914FS70	H-3924FS70	H-3928FS70	H-3938FS70
No. 80 (180µm)	H-3914FS80	H-3924FS80	H-3928FS80	H-3938FS80
No. 100 (150µm)	H-3914FS100	H-3924FS100	H-3928FS100	H-3938FS100
No. 120 (125µm)	H-3914FS120	H-3924FS120	H-3928FS120	H-3938FS120
No. 140 (106µm)	H-3914FS140	H-3924FS140	H-3928FS140	H-3938FS140
No. 170 (90µm)	H-3914FS170	H-3924FS170	H-3928FS170	H-3938FS170
No. 200 (75µm)	H-3914FS200	H-3924FS200	H-3928FS200	H-3938FS200
No. 230 (63µm)	H-3914FS230	H-3924FS230	H-3928FS230	H-3938FS230
No. 270 (53µm)	H-3914FS270	H-3924FS270	H-3928FS270	H-3938FS270
No. 325 (45µm)	H-3914FS325	H-3924FS325	H-3928FS325	H-3938FS325
No. 400 (38µm)	H-3914FS400	H-3924FS400	H-3928FS400	H-3938FS400
No. 450 (32µm)	H-3914FS450	H-3924FS450	H-3928FS450	H-3938FS450
No. 500 (25µm)	H-3914FS500	H-3924FS500	H-3928FS500	H-3938FS500
No. 635 (20µm)	H-3914FS635	H-3924FS635	H-3928FS635	H-3938FS635
No. 850 (10µm)	H-3914FS850	H-3924FS850	H-3928FS850	H-3938FS850
No. 1000 (2µm)	H-3914FS1000	H-3924FS1000	H-3928FS1000	H-3938FS1000

USA Standard ASTM Test Sieves

STANDARD

3" 5" 6" 10"

76mm 127mm 152mm 254mm

Sieve Size	Brass Frame, Stainless Mesh			
	3" Diameter 1" Deep	5" Diameter 1.5" Deep	6" Diameter 1.5" 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
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 (850µm)	H-3913FS20	H-3915FS20	H-3916FS20	H-3919FS20
No. 25 (710µm)	H-3913FS25	H-3915FS25	H-3916FS25	H-3919FS25
No. 30 (600µm)	H-3913FS30	H-3915FS20	H-3916FS20	H-3919FS20
No. 35 (500µm)	H-3913FS35	H-3915FS35	H-3916FS35	H-3919FS35
No. 40 (425µm)	H-3913FS40	H-3915FS40	H-3916FS40	H-3919FS40
No. 45 (355µm)	H-3913FS45	H-3915FS45	H-3916FS45	H-3919FS45
No. 50 (300µm)	H-3913FS50	H-3915FS50	H-3916FS50	H-3919FS50
No. 60 (250µm)	H-3913FS60	H-3915FS60	H-3916FS60	H-3919FS60
No. 70 (212µm)	H-3913FS70	H-3915FS70	H-3916FS70	H-3919FS70
No. 80 (180µm)	H-3913FS80	H-3915FS80	H-3916FS80	H-3919FS80
No. 100 (150µm)	H-3913FS100	H-3915FS100	H-3916FS100	H-3919FS100
No. 120 (125µm)	H-3913FS120	H-3915FS120	H-3916FS120	H-3919FS120
No. 140 (106µm)	H-3913FS140	H-3915FS140	H-3916FS140	H-3919FS140
No. 170 (90µm)	H-3913FS170	H-3915FS170	H-3916FS170	H-3919FS170
No. 200 (75µm)	H-3913FS200	H-3915FS200	H-3916FS200	H-3919FS200
No. 230 (63µm)	H-3913FS230	H-3915FS230	H-3916FS230	H-3919FS230
No. 270 (53µm)	H-3913FS270	H-3915FS270	H-3916FS270	H-3919FS270
No. 325 (45µm)	H-3913FS325	H-3915FS325	H-3916FS325	H-3919FS325
No. 400 (38µm)	H-3913FS400	H-3915FS400	H-3916FS400	H-3919FS400
No. 450 (32µm)	H-3913FS450	H-3915FS450	H-3916FS450	H-3919FS450
No. 500 (25µm)	H-3913FS500	H-3915FS500	H-3916FS500	H-3919FS500
No. 635 (20µm)	H-3913FS635	H-3915FS635	H-3916FS635	H-3919FS635
No. 850 (10µm)	H-3913FS850	H-3915FS850	H-3916FS850	H-3919FS850
No. 1000 (2µm)	H-3913FS1000	H-3915FS1000	H-3916FS1000	H-3919FS1000

SIEVE PANS & COVERS

H-3903

H-3902

Sieve Set, Soil Analysis, 5" Dia.
These sieves are used by agricultural engineers for 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.

Sieve Set, Soil Analysis, 5" Dia. H-3903

Shipping wt. 7 lbs (4.5kg)

Sieve Separator Pans

Description Dia x Depth	Brass	Stainless
3" x 1"	H-3913SP	—
3" x 3"	H-3913DSP	—
4" x 1.5"	H-3914SP	—
4" x 4"	H-3924SP	—
5" x 1"	H-3915SP	—
6" x 1.625"	H-3916SP	—
8" x 1"	H-3955SP	H-3955SSP
8" x 2"	H-3956SP	H-3956SSP
8" x 4"	H-3945SP	—
8" x 6"	H-3946SP	—
8" x 8"	H-3947SP	—
10" x 8"	H-3919SP	—
12" x 1"	H-3932SP	H-3932SSP
12" x 2"	H-3922SP	H-3922SSP
12" x 3.25"	H-3912SP	H-3912SSP
12" x 4"	H-3928SP	—
12" x 6"	H-3929SP	—
12" x 8"	H-3938SP	—

Sieve Bottom Pans

Description Dia x Depth	Brass	Stainless
3" x .625"	H-3913HP	H-3913SS
3" x 1"	H-3913P	—
4" x 1.5"	H-3914P	—
5" x 1"	H-3915P	—
6" x 1.625"	H-3916P	—
8" x 1"	H-3960P	H-3960SS
8" x 2"	H-3920P	H-3950SS
10" x 2"	H-3919P	—
12" x 1"	H-3932P	H-3932PSS
12" x 2"	H-3922P	—
12" x 3"	H-3912P	H-3912SS

Sieve Covers with Ring Handle

Description Dia x Depth	Brass	Stainless
3"	H-3913BC	H-3913SC
4"	H-3914BC	—
5"	H-3915BC	—
6"	H-3916BC	—
8"	H-3930BC	H-3930SC
10"	H-3919BC	—
12"	H-3912BC	H-3912SC

Replacement Screens for Soil Analysis Sieves

Screen No.	Model
#10	H-3903.10
#20	H-3903.20
#30	H-3903.30
#40	H-3903.40
#50	H-3903.50
#60	H-3903.60
#80	H-3903.80
#100	H-3903.100
Cover	H-3903C
Pan, 1" deep	H-3903P

Soil Analysis Sieve Set, 5" Dia. Perforated Plate
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 1.5" (38mm) deep.)

Soil Analysis Sieve Set, Perforated Plate H-3902

Shipping wt. 7 lbs (4.5kg)


H-4100 Series


H-3881

H-3880

H-3949

18" Dia. Brass Frame, Riddle Sieves
ASTM E11, AASHTO M92

Brass frame riddles (sieves), which are 4.5" deep, are made with stainless steel wire cloth and are used to wash, sift and strain samples used to drain off liquids and separate aggregates and dry materials in the sieve analysis of concrete and other materials.

Screen No.	Mesh Size	Model
4"	100mm	H-4109.4
3.5"	90mm	H-4109A
3"	75mm	H-4109
2.5"	63mm	H-4108
2.0"	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	0.85mm	H-4100.20
Cover		H-4100C
Bottom Pan		H-4100P

18" Brass Frame, Riddle Sieves — See chart

Aggregate Washer
ASTM C117

Aggregate washers automatically wash soil and aggregate samples, removing fines passing a 200 sieve. Water is continuously fed into the revolving, inclined stainless steel drum via a permanent regulated connection, and the sample is gently agitated until overflow is clear. Overflow water is directed onto sieves to prevent loss of oversize material. Angle of drum is fixed. Waste water is directed to a nearby drain. Aggregate washer allows processing of large aggregate and soil samples up to 15lb. (7kg). Stainless steel drum size is 12" diameter x 13" high (304x330mm). Equipped with totally enclosed gear motors for drum rotation and include 6ft (1.8M) power cords with GFCI plugs.

Order USA Standard Sieve, 200 mesh separately from the chart below.

Aggregate Washer, 120V 60Hz — H-3881
Aggregate Washer, 220V 50Hz — H-3881.4F
Shipping wt. 116 lbs (52kg)

Aggregate Washer, Table-Top Model
ASTM C117

This lightweight, table-top aggregate washer has a capacity of 8lb (3.6kg) and is designed to be located near a sink drain on a laboratory counter top. The easily removable drum that measures 9" diameter by 10.75" deep (229 x 273mm) is manufactured from stainless steel for rust and corrosion resistance. 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. **Order USA Standard Sieve, 200 mesh separately from the chart below.**

Aggregate Washer, 120V 60Hz — H-3880
Aggregate Washer, 220V 50/60Hz — H-3880.4F
Shipping wt. 33.1 lbs (18kg)

Aggregate Washer, Heavy Duty, Adjustable
ASTM C117

Heavy-duty aggregate washer with 15lb. (6.8kg) capacity 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 10.75" dia. x 13" D (27 x 33cm) and locks in four tilting angled positions. Includes valve and .375" goose-neck water tube. Overall dimensions are 30" x 20" x 32" H (76 x 51 x81cm) **Order USA Standard Sieve, 200 mesh separately from the chart below.**

Aggregate Washer, 120V 60Hz — H-3949
Aggregate Washer, 220V 50Hz — H-3949.5F
Shipping wt. 33.1 lbs (18kg)

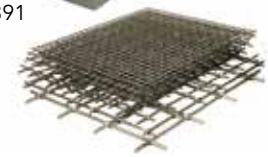
Sieves for use with Aggregate Washers

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

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

H-3806

H-4391



H-3948

Wet/Dry Sieve Shaker

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. The H-4328.5F version includes the H-4328.1, a 220V 50Hz transformer.

Wet/Dry Sieve Shaker, 120V 60Hz — H-4328
Wet/Dry Sieve Shaker, 220V 50Hz — H-4328.5F
Shipping wt. 8.5 lbs (5kg)

Bucket, 5-gallon for H-4328

Bucket is notched to securely hold the H-4328 sieve shaker in place.

Bucket, 5-gallon for H-4328 — H-4328.2
Shipping wt. 3 lbs (1.4kg)

Wet Washing Sieve Apparatus

ASTM C430, D1514, AASHTO T192 and Test Standard No. 158 (Method 211)

Controls spray and water pressure. Includes valve, pressure gauge, piping and H-3808 spray nozzle.

Wet Washing Sieve Apparatus — H-3806
Shipping wt. 2.8 lbs (1.4kg)

Spray Nozzle Replacement — H-3808
Shipping wt. 1 lb (.45kg)

Gauge Replacement — H-3806.1
Shipping wt. 1 lb (.45kg)

Sieve Set, Rocker-Type

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), 1.5" (38.1mm), 1" (25.4mm), .75" (190mm), .5" (12.7mm), .375" (9.51mm) and No. 4 ASTM wire screen plates with square openings

Screen plates 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. OD 15.25 x 12.25" x 10" (387 x 311 x 354mm). Replacement screens are available, see chart below.

Replacement Screens for Rocker-Type Sieves

Screen No.	Mesh Size	Model
4"	100mm	H-4391.004
3.5"	90mm	H-4391.008
3"	75mm	H-4391.010
2.5"	63mm	H-4391.012
2.0"	50mm	H-4391.020
1.5"	37.5mm	H-4391.250
1.25"	31.5mm	H-4391.312
1"	25.0mm	H-4391.375
.875"	22.4mm	H-4391.438
.75"	19.0mm	H-4391.500
.625"	16.0mm	H-4391.625
.5"	12.5mm	H-4391.750
.375"	9.5mm	H-4391.1000
.25"	6.3mm	H-4391.1250
No. 3.5	5.60mm	H-4391.1500
No. 8	2.36mm	H-4391.2500
No. 10	2.00mm	H-4391.3500
No. 12	1.70mm	H-4391.4000

Sieve Set, Rocker-Type — H-4391
Shipping wt. 24 lbs (19kg)

Corps of Engineers Wash Screen Assembly

ASTM E11, AASHTO M92

Wash screen assembly is used to wash out fines from samples of base coarse materials. It is used for a rapid check of minus No. 200 fines in aggregate and soil samples. Assembly has a 10 to 12 lb. (4.5 to 5.4kg) capacity. It includes a 12" (305mm) dia. x 10" deep (254mm) brass frame with a No. 200 mesh detachable screen with a No. 10 backup screen for support. The assembly also includes a lift-out, No. 10 overload screen at midpoint. Easily disassembles for cleaning and replacing mesh.

COE Wash Screen Assembly — H-3948
Shipping wt. 10 lbs (5kg)

No. 10 Lift-out, Overload Screen — H-3948M10
Shipping wt. 2.3 lbs (1kg)

No. 200 Mesh — H-3948M200
Shipping wt. 0.7 lb (.5kg)

NOTES

All Wet Wash Sieves are available from 50-400 mesh.

Call 1-800-544-7220 to order mesh sizes not listed.


H-3945


H-3942, H-3943


H-3807

Wet-Wash Sieves, Deep Frame
ASTM E11, AASHTO M92

Wet-wash sieves are used in the determination of fines content or to wash away fines when preparing samples for particle size testing. They are available in 8" and 12" diameters with depths of 4", 6" and 8". Sieves are constructed of brass frames with either stainless steel cloth or stainless steel cloth with a back-up cloth for durability. These sieves can also be ordered in almost any size mesh material 20 mesh and finer, call 1.800.544.7220 for availability. The chart to the right lists the most popular sizes.

No. 200 SS Mesh Wet Wash Sieves, Deep Frame (other mesh sizes available, inquire: 1.800.544.7220)

Size in. (mm)	Model (w/back-up cloth)	Ship wt. lbs. (kg)
8" x 4" (203 x 102mm)	H-3945 (H-3945RC)	3.5 (3.2)
8" x 6" (203 x 152mm)	H-3946 (H-3946RC)	2.7 (3.6)
8" x 8" (203 x 203mm)	H-3947 (H-3947RC)	3.7 (4.0)
12" x 4" (305 x 102mm)	H-3928FS200 (H-3928FS200RC)	4.1 (5.0)
12" x 6" (305 x 152mm)	H-3929FS200 (H-3929FS200RC)	5.1 (5.9)
12" x 8" (305 x 203mm)	H-3938FS200 (H-3938FS200RC)	5.8 (6.3)

Wet Washing Sieves, Deep Frame See chart

Wet Wash Sieves, Replaceable Mesh
ASTM E11, AASHTO M92

These sieves feature cost-effective, replaceable sieve cloth and mesh backups, which extend cloth life, as well as allow quick replacement of damaged screens. Sieves are available in either No. 200 or 325 mesh sizes with a No. 10 backup screen included. Screen material is held securely between rubber gaskets and bolted to the frame. Replacement sieve material is available in sizes 20 mesh and finer— call for availability.

No. 200 SS Mesh and back-up cloth

Size in. (mm)	Model	Ship wt. lbs. (kg)
8" x 4" (203 x 102mm)	H-3942	2.8 (3.2)
8" x 6" (203 x 152mm)	H-3943	6 (3.6)

No. 325 SS Mesh and back-up cloth

Size in. (mm)	Model	Ship wt. lbs. (kg)
8" x 4" (203 x 102mm)	H-3942FS325	2.8 (3.2)
8" x 6" (203 x 152mm)	H-3943FS325	6 (3.6)

8" Replacement Mesh only

Mesh Size	Model	Ship wt. lbs. (kg)
No. 200 SS	H-3942.200	0.25 (.5)
No. 325 SS	H-3942.325	

Replacement Gasket for wet wash sieve

Mesh Size	Model	Ship wt. lbs. (kg)
8" (203mm)	H-3942G	0.25 (.5)

Wet Wash Sieves, Replaceable Mesh See chart

Cement Wet Washing Sieves
ASTM E11; AASHTO M92

Stainless steel mesh sieves with nickel-plated brass frame have replaceable mesh and solder-less construction. Sieves include three, screwed-on legs for support and to facilitate sample drying on hot plates and in ovens. Legs are quick and easy to remove to facilitate mesh replacement. These sieves are available in all mesh sizes from 50 to 400 mesh, for those not listed, contact Humboldt: 1.800.544.7220.

Model	Description
H-3807	2" x 3" high (52 x 76mm) with No. 325 replaceable mesh
H-3804	3" x 3.5" H (76 x 89mm) w/ No. 200 replaceable mesh
H-3803	4" x 4.5" H (102 x 114mm) w/ No. 200 replaceable mesh
H-3809	4" x 4.5" 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

Cement, Wet Washing Sieves See chart

NOTES

Other Mesh sizes available, inquire: 1-800-544-7220.

HN-3952


H-2813


H-3799


H-3770


H-3773


H-4329.5


H-3802


H-3774


H-3772

NIST Reference Materials — Glass Beads
This Standard Reference Material (SRM) is intended primarily for use in evaluating and calibrating particle size measurement instrumentation, in this case, sieves. It consists of a single bottle containing approximately 200g of solid spherical soda-lime glass beads. Typical use is in the evaluation of wire cloth test sieves for conformity and accuracy in the range from #20 (2.00mm) through #635 (20µm). Percent of glass beads retained on each sieve is calculated, and effective opening of each of the sieves is determined from calibration data on the NIST Certificate supplied with the bead material.

NIST Reference Glass Beads

Range	Model
No. 10 – 20 (2450 – 750µm)	HN-3950
No. 25 – 60 (750 – 220µm)	HN-3951
No. 45 – 140 (400 – 100µm)	HN-3952
No. 120 – 270 (125 – 53µm)	HN-3953
No. 400 – 635 (38 – 20µm)	HN-3954
No. 30 – 635 (600 – 45µm)	HN-3955

Sieve Balls
General-purpose, rubber balls that resists oil, grease, and abrasion are used in aiding in or cleaning sieve material. Test results may also benefit, due to less clumping of material.

Sieve Ball, 1", Package of 1 H-4329.1
Sieve Balls, 0.625" Package of 10 H-4329.5
Shipping wt. 0.5 lbs (.25kg)

Magnifying Comparator
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— .5 x 1/64" Parallel line scale

Magnifying Comparator H-2813
Shipping wt. 0.8 lbs (.45kg)

Clean-N-Stor, for 8" Sieves
The clean-n-stor accessory is a handy, time-saving device for emptying, cleaning and weighing sieves. Inverting an 8" sieve on the stainless steel funnel allows quick emptying of the contents into a receiving scoop or pan. Includes scoop and soft, horsehair sieve brush. The adjustable height clean-n-stor is for use with taller sieves.

Clean-N-Stor Sieve Accessory H-3802
Clean-N-Stor, Adjustable Height H-3801
Shipping wt. 6 lbs (2.6kg)

Sieve Brushes
Horsehair, wood handle; 2.75" x 1.125" x .75" (70 x 29 x 19mm), 10.5" (267mm) overall length.
Horsehair Sieve Brush, Oval Shape H-3799
Shipping wt. 1 lbs (.45kg)

Horsehair, wood handle; 2.5" x 1" x .375" (64 x 25 x 10mm), 10.5" (267mm) overall length.
Horsehair Sieve Brush for Fine Mesh H-3770
Shipping wt. 1 lbs (.45kg)

Wire, plastic handle; 1.5" x 1.25" dia. (38 x 32mm), 5.25" (133mm) overall length.
Wire Sieve Brush for Fine Mesh H-3773
Shipping wt. 1 lbs (.45kg)

Horsehair, wood handle; 1.5" x 1.25" dia. (38 x 32mm), 5.25" (133mm) overall length.
Horsehair Sieve Brush for Fine Mesh H-3774
Shipping wt. 1 lbs (.45kg)

Wire, wire loop handle; 1.5" x .75" x .125" (38 x 19 x 3mm), 5.5" (140mm) overall length.
Wire Sieve Brush for Coarse Mesh H-3772
Shipping wt. 1 lbs (.45kg)

NOTES

You can find more brushes on page 319 of this catalog.

HA-4325, HA-4330

HA-4325V, HA-4330V


H-4325


H-4330

Sieve Shaker, Digital Timer
ASTM C136

The Humboldt digital shaker allows the user to set a time of up to 60 minutes with automatic shutoff. It features an easy-to-use digital interface with an accuracy of 0.5%. The HA-4425 sieve shaker builds upon the economical and time-proven design of the Humboldt Sieve Shaker, which has been providing dependable service for many years. This sieve shaker can be used with 3", 5" and 8" sieves and can handle up to ten 8" sieves, twelve 5" sieves, sixteen 3" full-height sieves or eighteen half-height 8" sieves.

The large version can be used with 8", 10" and 12" sieves. It can handle up to eleven 8" sieves, seven 10" sieves, seven 12" full-height sieves, nineteen half-height 8" sieves or thirteen half-height 12" sieves.

This shaker uses a 1/4 hp motor with a 60-minute timer. Unit should be bolted to bench for correct operation. Dimensions 15"w x 15"d x 45"h (380 x 380 x 1143mm).

Sieve Shaker, Digital Timer, 120V 60Hz	HA-4325
Sieve Shaker, Digital Timer, 220V 60Hz	HA-4325.2F
Sieve Shaker, Digital Timer, 220V 50Hz	HA-4325.5F

Shipping wt. 72 lbs (32.6kg)

Large Sieve Shaker, Digital, 120V 60Hz	HA-4330
Large Sieve Shaker, Digital, 220V 60Hz	HA-4330.2F
Large Sieve Shaker, Digital, 220V 50Hz	HA-4330.5F

Shipping wt. 95 lbs (43kg)

Variable-Speed Sieve Shaker, Digital Timer
ASTM C136

Humboldt's variable-speed, digital, sieve shaker builds upon the economical and time-proven design of the Humboldt Sieve Shaker, by adding a variable-speed option. The variable-speed dial provides a wide range of settings that can be easily set. And, also features an easy-to-use digital interface with an accuracy of 0.5%.

This sieve shaker can be used with 3", 5" and 8" sieves and can handle up to ten 8" sieves, twelve 5" sieves, sixteen 3" full-height sieves or eighteen half-height 8" sieves.

The large version can be used with 8", 10" and 12" sieves. It can handle up to eleven 8" sieves, seven 10" sieves, seven 12" full-height sieves, nineteen half-height 8" sieves or thirteen half-height 12" sieves.

Both shakers use a DC motor with a 60-minute timer. Unit should be bolted to bench for correct operation. Dimensions 15"w x 15"d x 45"h (380 x 380 x 1143mm).

Variable Speed Shaker, Digital, 120V 60Hz	HA-4325V
Variable Speed Shaker, Digital, 220V 60Hz	HA-4325V.2F
Variable Speed Shaker, Digital, 220V 50Hz	HA-4325V.5F

Large Shaker, Digital, Variable 120V 60Hz	HA-4330V
Large Shaker, Digital, Variable 220V 60Hz	HA-4330V.2F
Large Shaker, Digital, Variable 220V 50Hz	HA-4330V.5F

Shipping wt. 72 lbs (29.5kg)

Humboldt, Economy Sieve Shaker
ASTM C136

The Humboldt economy sieve shaker can be used with 3", 5" and 8" sieves. It can handle up to ten 8" sieves, twelve 5" sieves, sixteen 3" full-height sieves or eighteen half-height 8" sieves. It features a 30 minute, easy-to-use, mechanical timer and durable construction, which has been proven over many years of daily use. This shaker uses a 1/4 hp motor with a 30-minute timer. Unit should be bolted to bench for correct operation. Dimensions 15"w x 15"d x 45"h (380 x 380 x 1143mm).

Economy Sieve Shaker, 120V 60Hz	H-4325
Economy Sieve Shaker, 220V 60Hz	H-4325.2F
Economy Sieve Shaker, 220V 50Hz	H-4325.5F

Shipping wt. 72 lbs (29.5kg)

Humboldt, Large, Economy Sieve Shaker
ASTM C136

The Humboldt large economy sieve shaker can be used with 8", 10" and 12" sieves. It can handle up to eleven 8" sieves, seven 10" sieves, seven 12" full-height sieves, nineteen half-height 8" sieves or thirteen half-height 12" sieves. It features a 30 minute, easy-to-use, mechanical timer and durable construction, which has been proven over many years of daily use. This shaker uses a 1/4 hp motor with a 30-minute timer. Unit should be bolted to bench for correct operation. Dimensions 21"w x 18"d x 47"h (533 x 4570 x 1194mm).

Large Economy Shaker, 120V 60Hz	H-4330
Large Economy Shaker, 220V 60Hz	H-4330.2F
Large Economy Shaker, 220V 50Hz	H-4330.5F

Shipping wt. 95 lbs (38.5kg)


H-4310


H-4326


H-4320, H-4322


H-4321, H-4327

Humboldt, Hand-Operated Sieve Shaker
ASTM C136

The Humboldt, hand-operated sieve shaker can be used with 3", 5" and 8" sieves. It can handle up to ten 8" sieves, twelve 5" sieves, sixteen 3" full-height sieves or eighteen half-height 8" sieves. Unit should be bolted to bench for correct operation. Dimensions 15"w x 15"d x 45"h (380 x 380 x 1143mm).

Humboldt, Hand-Operated Sieve Shaker H-4310
Shipping wt. 54 lbs (22kg)

Sieve Shaker for 3" Sieves

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 six 3" sieves and uses a 1/20 hp motor.

Sieve Shaker, 3" Sieves, 115V 60Hz H-4326
Sieve Shaker, 3" Sieves, 220V 50Hz H-4326.5F
Shipping wt. 9.7 lbs (2.7kg)

Ro-Tap® Sieve Shaker, 8" Sieves
ASTM C136

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).

Ro-Tap® 8" Sieve Shaker, 120V 60Hz H-4320
Ro-Tap® 8" Sieve Shaker, 220V 60Hz H-4320.2F
Ro-Tap® 8" Sieve Shaker, 230V 50Hz H-4320.5F
Shipping wt. 172 lbs (86kg)

Ro-Tap® Sieve Shaker, 12" Sieves
ASTM C136

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).

Ro-Tap® 12" Sieve Shaker, 120V 60Hz H-4322
Ro-Tap® 12" Sieve Shaker, 220V 60Hz H-4322.2F
Ro-Tap® 12" Sieve Shaker, 230V 50Hz H-4322.5F
Shipping wt. 172 lbs (86kg)

Sound Enclosure, Ro-Tap®

This sound enclosure can be used with either 8" or 12" Ro-Tap shakers (H-4320 and H-4322). Cabinet is lined with 1" (25.4mm) of foam for sound deadening. Air vents are built in.

Sound Enclosure, Ro-Tap® H-4324
Shipping wt. 120 lbs (41kg)

Shaker Stand

Sturdy lightweight, aluminum stand can be used with either 8" or 12" Ro-Tap shakers (H-4320 and H-4322).

Shaker Stand for Ro-Tap® H-4320.4
Shipping wt. 50 lbs (13kg)

Dura Tap™, Motorized Sieve Shaker
ASTM C136

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 six full-height 8" sieves, plus one pan and cover or fourteen, 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).

Dura Tap™ Sieve Shaker, 120V 60Hz H-4321
Dura Tap™ Sieve Shaker, 220V 60Hz H-4321.2F
Dura Tap™ Sieve Shaker, 220V 50Hz H-4321.5F
Shipping wt. 225 lbs (102kg)

Dura Tap™, Motorized Sieve Shaker
ASTM C136

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, ensuring performance right out of the box. Unit holds four, full-height 12" sieves, plus one pan and cover or eight, 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).

Dura Tap™ Sieve Shaker, 120V 60Hz H-4327
Dura Tap™ Sieve Shaker, 220V 60Hz H-4327.2F
Dura Tap™ Sieve Shaker, 220V 50Hz H-4327.5F
Shipping wt. 225 lbs (102kg)

Silent Sifters®

Silent Sifters® significantly reduce noise levels of sieving operations with no loss in performance and accuracy. The higher quality materials and innovative design reduce noise levels inherent to particle sizing more than other rotary sifters or sieve shakers. They also provide faster conversion sieve sizes and are easier to set up, and quieter to run. Sieve stack capacity ranges from six 12" dia. full-height sieves with pan, or up to twenty 8" dia. half-height sieves with pan. Particle size range is No. 4 to No. 635 (4.75mm to 20µm).

Hammer assemblies are constructed of 6061 aluminum alloy with Ultra-High Molecular Weight (UHMW) Polyethylene heads. The rugged painted case is dense, impact-resistant MDF board and is mounted on a sturdy, powder-coated ASTM A513 heavy steel tubing stand. The system is driven by a dependable 1/4hp continuous-duty motor. Enclosed cabinets allow safe, dust-free operation. Sieve stacks are simply placed inside and the cabinet is rotated back to the testing position using an ergonomic knob, with no clamping required. Six rubber-covered stainless steel drive rollers continuously rotate the sieve stack, and particle separations are assisted by tapping against the stack.

The Silent Sifter® provides noise levels 7-10dB lower than any other rotary sifter for enhanced worker protection and no loss in performance or accuracy.

The Silent Sifter® II is the newest and most unobtrusive member of the Rotary Sifter line. This Sifter uses advanced soundproofing materials and techniques for models 16 - 18dB quieter than standard rotary sifters and 8-10dB quieter than the Silent Sifter®.

Silent Sieve Sifter®, 120V 60Hz	**H-4317**
Silent Sieve Sifter®, 220V 50Hz	**H-4317.5F**
Silent Sieve Sifter® II, 120V 60Hz	**H-4316**
Silent Sieve Sifter® II, 220V 50Hz	**H-4316.5F**

Shipping wt. 140 lbs (64kg)

Mary Ann® Sieve Sifter

ASTM C136

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" (660mm) in height can be set into place quickly with no clamping needed. The Mary Ann design angles the sieves at 45° while rotation from a 1/3hp motor and tapping from hardwood-faced aluminum hammers promote action to accomplish the sieving process. The support stand also serves as a sieve storage rack. Assembled Sifter requires 18" x 40" (457 x1016mm) of floor space. Unit Dimensions: 18" x 26" x 58" (457 x 660 x 1473mm).

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

Shipping wt. 140 lbs (64kg)

Sieve Shaker Comparison Chart

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

Description	Model	Sieve dia.		Sieve capacity*			ASTM	Timer minutes	Requires Mounting	Motor HP	Dimensions W x D x H
		in.	mm	full	inter.	half					
Humboldt Sieve Shaker, Digital Timer Humboldt Sieve Shaker, Digital, Variable Humboldt, Economy Sieve Shaker	HA-4325 HA-4325V H-4325	3	76	16			C136	60	Yes	1/4	15" x 15" x 45" (381 x 381 x 1143mm)
		5	127	12				60			
		8	203	10		18		30			
Large Sieve Shaker, Digital Timer Large Sieve Shaker, Digital, Variable Large Economy Sieve Shaker	HA-4330 HA-4330V H-4330	8	203	11		19	C136	60	Yes	1/4	21" x 18" x 47" (533 x 457 x 1194mm)
		10	254	7				60			
		12	305	7	11	13		30			
8" Hand Sieve Shaker	H-4310	3	76	16			C136	30	Yes	1/4	15" x 15" x 45" (381 x 381 x 1143mm)
		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)
		12	305	6							
Silent Sieve Sifter®	H-4316 H-4317	8	203	10		20	C136	99 Digital	No	1/3	19" x 24" x 58" (483 x 610 x 1473mm)
		12	305	6		12					
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)
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)
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)
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)

* Includes top cover and pan.

H-4334A.3


H-4335F200


H-3373A


H-3381


H-3380

H-4334A.3


H-4334A.4

H-4334A.2


H-3360

Mikro Air-Jet Sieve MAJSx

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, micro-mesh sieve or cyclone collector accessories may be used to recover fines. Includes 200mm cast aluminum sieve drum housing unit, acrylic lid, 15W slotted brass air nozzle, 0-15 minute rotary timer switch. **Vacuum and Sieves are not included.** Accessories and air-jet sieve drums are available; call for details and pricing.

Mikro Air-Jet Sieve MAJSx, 120V 60Hz H-4334A.3
Shipping wt. 168 lbs (30kg)

Standard HEPA Vacuum for Mikro Air-Jet Sieve

Standard vacuum for basic operation. Replacement bags and HEPA cartridges are available. Not recommended for samples with lots of fines.

Mikro Air-Jet Sieve MAJSx, 120V 60Hz H-4334A.2
Shipping wt. 22 lbs (9.9kg)

HEPA Air Jet Vacuum System for Mikro Air-Jet

Three-stage filtration system includes a Dacron pre-filter bag, a disposable paper filter bag, and a drop-in, pleated HEPA Filter Assembly with a minimum efficiency rating of 99.91% at 0.3µm.

HEPA Air Jet Vacuum System, 120V 60Hz H-4334A.3
Shipping wt. 168 lbs (30kg)

High-Efficiency Cyclone

The high efficiency cyclone device is a laboratory scale particle collection device, which is installed after the vacuum to recover up to 98% of materials over 10 µm.

HIgh-Efficiency Cyclone H-4334A.4
Shipping wt. 24 lbs (11kg)

Micron Air-Jet Sieves

ASTM E11

For use with Air-Jet sieving systems. Stainless steel frame and cloth mesh. 7.875" dia. (200mm) frame with rubber seal. Overall height: 1.75" (44.5mm). Depth to cloth: 1.125" (28.6mm). Each sieve is supplied with a serial number and matching "Test Sieve Certificate" for traceability .

Micron Air Jet Sieves see chart
Shipping wt. 2 lbs (1kg)

U.S. Std. Mesh	Micron	Model
No. 8	2360	H-4335F8
No. 10	200	H-4335F10
No. 12	1700	H-4335F12
No. 14	1400	H-4335F14
No. 16	1180	H-4335F16
No. 18	850	H-4335F18
No. 20	850	H-4335F20
No. 25	710	H-4335F25
No. 30	600	H-4335F30
No. 35	500	H-4335F35
No. 40	425	H-4335F40
No. 45	355	H-4335F45
No. 50	300	H-4335F50
No. 60	250	H-4335F60
No. 70	212	H-4335F70
No. 80	180	H-4335F80
No. 100	150	H-4335F100
No. 120	125	H-4335F120
No. 140	106	H-4335F140
No. 170	90	H-4335F170
No. 200	75	H-4335F200
No. 230	63	H-4335F230
No. 270	53	H-4335F270
No. 325	45	H-4335F325
No. 400	38	H-4335F400
No. 450	32	H-4335F450
No. 500	25	H-4335F500
No. 635	20	H-4335F635

Specific Gravity of Fine Aggregate Kit,

ASTM C128; AASHTO T84

Kit designed to provide you with the basic 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 .75" (19mm) sample splitter.

Specific Gravity Kit, 120V 60Hz H-3373A
Specific Gravity Kit, 230V 50/60Hz H-3373A.4F
Shipping wt. 132 lbs (60kg)

Pycnometer Top and Glass Jar

ASTM C128

Pycnometer top and 1qt. (.95L) glass jar set for determining specific gravity of fine aggregate. Top is spun brass with .375" (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. Order additional jars below

Pycnometer Top and Glass Jar H-3381
Glass Jar, 1qt. (.95L) H-3380.2
Pycnometer Top Only H-3380
Shipping wt. 2 lbs (1kg)

Conical Mold and Tamper

ASTM C128; AASHTO T84

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.

Conical Mold and Tamper H-3360
Conical Mold Only H-3361
Tamper Only H-3362
Shipping wt. 1.8 lbs (1kg)


H-2710A.1


H-2713B


H-2717


H-2712A.6


H-2712A


H-2716

Deluxe Specific Gravity Bench

ASTM C20, C127, C642, C830, D1188, D2041, D2726; AASHTO T85, T166, T209, T275

Our specific gravity weighing 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; and, a crank-operated shelf that lets you bring the water tank up to the sample, making for easier sample immersion. **Bench ONLY.**

Deluxe Specific Gravity Bench	H-2710A.1
	Shipping wt. 116 lbs (52kg)

Deluxe Specific Gravity Bench Set

ASTM C20, C127, C642, C830, D1188, D2041, D2726; AASHTO T85, T166, T209, T275

The deluxe specific gravity bench set includes our deluxe bench, a H-2712A specific gravity tank kit with heater and circulating pump.

Order a weigh-below scale and sample containers separately.

Specific Gravity Set, 120V 60Hz	H-2713B
Specific Gravity Set, 220V 50/60Hz	H-2713B.4F
	Shipping wt. 110 lbs (48kg)

Specific Gravity Tank with Heater & Circulator

ASTM C20, C127, C642, C830, D1188, D2041, D2726; AASHTO T85, T166, T209, T275

26 gal. (98.4L) polyethylene tank, which measures 18" x 18" x 18" 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.

Tank w/ Heater & Circulator

120V 60Hz	H-2712A
220V 50/60Hz	H-2712A.4F
	Shipping wt. 18 lbs (8kg)

Heater/Circulator Assembly

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.

Heater/Circulator Assembly

120V 60Hz	H-2712A.6
220V 50/60Hz	H-2712A.6.4F
	Shipping wt. 3.5 lbs (2kg)

Compact Specific Gravity Bench Set

ASTM C20, C127, C642, C830, D1188, D2041, D2726; AASHTO T85, T166, T209, T275

The compact specific gravity bench set includes our compact bench, which measures 15.75" x 19.75" x 39" High (400 x 502 x 991mm) and includes a hole to accommodate the weigh-below scale. It includes a 10-gallon polyethylene tank with internal dimensions of 12" x 12" x 18" (305 x 305 x 457mm) The tank 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. The compact specific gravity bench includes two sample containers, a 7.5" dia x 7.4" tall (191 x 191mm) container and a 5.5" x 8.25" (140 x 210mm) open, wired holder.

Order a weigh-below scale separately.

Specific Gravity Set, 120V 60Hz	H-2717
Specific Gravity Set, 220V 50/60Hz	H-2717.4F
	Shipping wt. 110 lbs (48kg)

Compact Specific Gravity Tank with Heater & Circulator

ASTM C20, C127, C642, C830, D1188, D2041, D2726; AASHTO T85, T166, T209, T275

Includes a 10-gallon polyethylene tank with internal dimensions of 12" x 12" x 18" (305 x 305 x 457mm) The tank 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. This model also comes with the basket and the metal bracket hanger pictured.

Compact Tank w/ Heater & Circulator

120V 60Hz	H-2716
220V 50/60Hz	H-2716.4F
	Shipping wt. 18 lbs (8kg)

NOTES

Recommended scales for use with specific gravity benches can be found on the next page.


HB-4506A


HB-3535


H-3351


H-3353


H-3354, H-3357, H-3358


HB-4545B


H-3371


H-2715


H-3355
H-3356


H-3372

RECOMMENDED SCALES:

Ohaus Ranger 7000 High-Capacity Balance

The Ranger 7000 balance has been designed for industrial applications. The HB-3515 features a 15,000g capacity with a readability of 0.1g. and a weigh-below hook.

15,000g x 0.1g Balance, 120V 60Hz	HB-3515
15,000g x 0.1g Balance, 220V 50/60Hz	HB-3515.4F

Ship wt. 32lbs. (13.4kg)

Ohaus Explorer High-Capacity Balance

The Explorer high-capacity balance provides a durable and accurate solution to this application .It features internal calibration and a integral weigh-below hook. The HB-4508A features a 24,000g capacity with a readability of 0.1g.

12,000g x 0.1g Balance, 120V 60Hz	HB-4506A
12,000g x 0.1g Balance, 220V 50/60Hz	HB-4506A.4F
24,000g x 0.1g Balance, 120V 60Hz	HB-4508A
24,000g x 0.1g Balance, 220V 50/60Hz	HB-4508A.4F

Ship wt. 29lbs. (12.5kg)

Adam Nimbus 7000 High-Capacity Balance

Innovative design creates a smaller footprint, so the Nimbus occupies minimal space on the lab bench. Order a weigh-below hook, HB-4545B.1.

12,000g x 0.1g Balance, 120V 60Hz	HB-4543B
12,000g x 0.1g Balance, 220V 50/60Hz	HB-4543B.4F
16,000g x 0.1g Balance, 120V 60Hz	HB-4545B
16,000g x 0.1g Balance, 220V 50/60Hz	HB-4545B.4F

Ship wt. 29lbs. (12.5kg)

ACCESSORIES

For additional choices in balances for use in this application see pages 327-328.

Sample Container

ASTM C88; AASHTO T104

For use in testing aggregate soundness, the container is used to immerse samples of coarse aggregate in solution and then transfer samples to an oven for uniform drying in minimum time. No. 4 stainless steel wire mesh, bottom soldered to frame after fabricating. Overall dimension: 10" x 4" dia. (254 x 102mm) with .125" (3mm) round wire handle.

Sample Container	H-3351

Shipping wt. 2.3 lbs (1.04kg)

Sample Container

ASTM C88; AASHTO T104

Used to immerse samples of coarse aggregates in solution and transfer samples to oven. No. 8 stainless steel wire mesh, bottom-soldered to frame after fabrication. Overall dimension: 5.5" x 4" dia. (140 x 102mm).

Sample Container	H-3353

Shipping wt. 6 lbs (2.7kg)

Drain Down Baskets

Stainless steel wire mesh baskets feature reinforced construction and bail-type handle. Dimensions: 4.25" x 5.5" dia. (108 x 140mm).

Drain Down Basket, 0.25" mesh	H-3354
Drain Down Basket, #8 mesh	H-3357
Drain Down Basket, #16 mesh	H-3358

Shipping wt. 2.7 lbs (1.2kg)

Specific Gravity Basket

ASTM C127

Stainless steel No. 8 wire stainless steel mesh basket features reinforced construction and bail-type handle. Dimensions: 8" x 8" dia. (203 x 203mm).

Specific Gravity Basket	H-3371

Shipping wt. 2.7 lbs (1.2kg)

Specific Gravity Sieve #4

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

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

Shipping wt. 3lbs (1.4kg)

Hollow Tube Specific Gravity Cradle

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

Hollow Tube Specific Gravity Cradle	H-2715

Shipping wt. 2.4 lbs (1.1kg)

Utility Bucket

ASTM C127

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

Utility Bucket	H-3372

Shipping wt. 4 lbs (1.6kg)


H-3383F
H-3383L


H-3393


H-3400 H-3460


H-3387


H-3386


H-3385


H-2660


H-2640

Specific Gravity Flask (Phunque Flask)
AASHTO T354

The phunque flask is the key element in a 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 tamper methods in use today. This 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.

Fine Aggregate Flask	H-3383F
Coarse Aggregate Flask	H-3383L

Shipping wt. 12 lbs (7kg)

Volumetric Flasks
ASTM D854; AASHTO T100

Glass flasks used in specific gravity determinations are calibrated to contain the rated capacity at 20°C within permissible tolerances. Available with and without a stopper.

100ml Volumetric Flask	H-3391
250ml Volumetric Flask	H-3392
250ml Volumetric Flask with Stopper	H-3394
500ml Volumetric Flask	H-3393
500ml Volumetric Flask with Stopper	H-3395

Shipping wt. 1 lbs (0.45kg)

Specific Gravity Flask (Le Chatelier)
ASTM C128, C188; AASHTO T133

For determining the specific gravity of hydraulic cement, dust, sand and other fine materials. The body holds approximately 250ml. The oval bulb in the neck holds 17ml. Volume below the bulb is graduated from 0 to 1.0ml in 0.1ml subdivisions, with an additional 0.1 subdivision below the 0 and above the 1.0ml mark. The neck is graduated from 18 to 24ml in 0.1ml subdivisions above the bulb (white graduations). The stopper is a number 13.

Specific Gravity Flask (Le Chatelier)	H-3400
Specific Gravity Flask, Calibrated	H-3400C

Shipping wt. 1.8 lbs (1kg)

Specific Gravity Flask (Chapman)
ASTM C70; AASHTO T142

The Chapman flask has a wide base and two bulbs and is used in the determination of moisture content in fine aggregate by displacement in water. It can also be used to adjust the aggregate mass for moisture content and to determine surface moisture contribution to mixing water in portland cement concrete. Graduated at 200ml between the bulbs, and from 375ml to 450ml in 1ml divisions in the neck.

Specific Gravity Flask (Chapman)	H-3460

Shipping wt. 2.5 lbs (1kg)

Specific Gravity Bottles (Pycnometers)
ASTM D854; AASHTO T100

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.

Specific Gravity Bottle, 100ml	H-3387
Specific Gravity Bottle, 50ml	H-3386
Specific Gravity Bottle, 25ml	H-3385

Shipping wt. 0.3 lbs (0.2kg)

Hubbard-Carmick Specific Gravity Bottle
ASTM D70, D115, D2343; AASHTO T228, T43

Modified 24ml, wide-mouth Hubbard-Carmick, Erlenmeyer-style bottle allows easy filling and cleaning and is very stable.

Hubbard-Carmick Specific Gravity Bottle	H-2660

Shipping wt. 0.4 lbs (0.2kg)

Hubbard 24ml Specific Gravity Bottle
ASTM D70, D115, D1963; AASHTO T228

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.

Hubbard 24ml Specific Gravity Bottle	H-2640

Shipping wt. 0.3 lbs (0.15kg)

H-4967
(includes pelican case)

H-4965A

H-4966

H-4978

Speedy® 2000 Moisture Tester, 20g

ASTM D4944; AASHTO T217; Florida FM5-507

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. **Does not include calcium carbide reagent, See hazardous material warning on this page.**

Specifications

	Description
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

Speedy® 2000 Moisture Tester, 20g H-4967
Shipping wt. 16.6 lbs (5.9kg)

Speedy® 2000 Moisture Tester, 6g

The Series 2000 Speedy 6g moisture tester provides moisture testing for smaller 6g samples of material. The tester is supplied complete with heavy-duty plastic carrying case, electronic balance, beaker, cleaning cloth, cap, washer, scoop and cleaning brushes. **This model is not ASTM compliant and does not include the steel pulverizing balls. Does not include calcium carbide reagent, See hazardous material warning.**

Speedy® 2000 Moisture Tester, 6g H-4968
Shipping wt. 15 lbs (5.9kg)

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 now require truck shipment for all quantities of calcium carbide. For this reason we no longer provide testing reagent (calcium carbide) with Speedy Moisture Testers. To purchase calcium carbide for use with Speedy testers, please order H-4966, which is a case of 24, 1 lb. (0.5kg) canisters. This item requires shipment by truck.

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

Moisture Tester Reagent

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

Moisture Testing Reagent H-4966
Ship wt. 28lbs (11.7kg)

Calibration Kit, Speedy Tester

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.

Calibration Kit, Speedy Tester H-4965A
Shipping wt. 20 lbs (9kg)

Replacement Parts for Speedy

Description	Model
Portable Scale, 200g x 0.1g	H-4967.1
Beaker, 60ml Plastic	H-4967.2
Gauge, replacement	H-4963G
Gauge, gasket- 0.75" OD	H-4963.11
Speedy Scoop	H-4963.15
Speedy Brush, wire handle	H-4963.16A
Brush, for scale pan	H-4963.14
Pulverizer, steel ball	H-4963B

Aggrameter (Trident)

Formerly known as the Trident, the Aggrameter 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 Aggrameter comes calibrated for both sand and aggregate, and can be programmed by the user for up to ten different materials. The Aggrameter can store more than 150 readings – complete with time and date for future reference.

Aggrameter H-4978
Shipping wt. 5lbs (2.3kg)

HO-4976.3F

HO-4975.3F

HO-4972

HO-4971

PMB Moisture Analyzers

With simple operation and rapid response time, PMB moisture analyzers offer the top value in their class. The HO-4975 and HO-4976 feature a readability of 0.01g / 0.05%. Pan size is 3.9" (100mm) and the following weighing units: g, %M, %S, ATRO %M, ATRO %S. It features a Back-lit LCD screen with 0.9"/ 24mm-high digits and external calibration. The automatic test-setting function enables easy recall for frequent testing of the same items without additional user programming. The automatic test-setting function enables easy recall for frequent testing of the same items without additional user programming. USB and RS-232 interfaces provide computer and printer connections to store test programs and results. No additional software is needed to take readings, giving users total freedom to collect data on a production floor or in the field. There is no need for additional software to take readings, giving users total freedom to collect data on a production floor or in the field. A single 400-watt halogen bulb heats samples in 1 °C selectable increments. Three heating options give users the flexibility to customize test methods and temperatures for different materials. This PMB moisture analyzer can be used to accurately determine the moisture content in aggregates, soils and powder materials, such as cement.

Model	HO-4975, HO-4976
Capacity	160g / 200g
Readability	0.01g / 0.05g%
Sample Size	50g to 160 / 200g
Heating Tech	400 watt Halogen
Power	110/220V, 50/60 HZ
Operating Temp	0° to 40°C / 32° to 104°F
Display Type	Backlit LCD
Weighing Units	g, %M, %S, ATRO %M, ATRO %S
Pan Size	3.9" / 100mm
Dimensions (W x D x H)	9.8" x 14.2" x 7.3" 250 x 360 x 185mm

PMB Moisture Analyzer, 200g HO-4976.3F
PMB Moisture Analyzer, 160g HO-4975.3F
Shipping wt. 18 lbs (8kg)

Moisture Analyzer, Basic-Halogen, 90g

Measuring moisture content has never been easier than with the HO-4972 Moisture Analyzer. The HO-4972's halogen heating distributes heat uniformly over the sample and speeds up the drying process—delivering fast and precise measurements. Designed for tool-free cleaning, this analyzer's components can be easily removed for quick and easy maintenance. The HO-4972 is intuitive with an icon-driven menu navigation on the touchscreen display. It provides outstanding Halogen Heating for fast and precise results and it's precisely controlled halogen heating dries samples quickly ensuring uniform heating to yield fast, precise and repeatable results of 0.01% readability.

Effortless maintenance with tool-free cleaning with its removable pan handler and heating chamber components that make cleaning quick and easy. Its halogen heating dries samples in seconds and performs up to 40% faster than traditional infrared methods, providing uniform drying for precise, repeatable results. The reflective sample chamber ensures uniform heating of samples to yield reliable results of 0.01% readability. Features a full operating temperature range of 40–200 °C in 1° increments.

Model	HO-4972
Capacity	90g
Readability	0.01% / 0.001g
Sample Size	3g to 20g typical, 0.5g min.
Heating Tech	Halogen
Power	100 to 240V, 50/60 HZ
Temp. Range	104° 392°F (40–200°C)
Display Type	4.3 in/109 mm, QVGA, TFT touch screen
Weighing Units	%moisture, %solids, %regain weight (g), temperature, time
Pan Size	3.5" / 90mm
Dimensions (W x D x H)	8.3" x 14" x 7.7" 211 x 355x 180mm

Moisture Analyzer, Basic-Halogen, 90g HO-4972
Shipping wt. 18.4 lbs (8.35kg)

Moisture Analyzer-Pro Analytical, 120g

The HO-4971 delivers functionality and precision that you can rely on, and is easy to operate and clean—you can test more samples in less time! Advanced features such as a temperature guide help to analyze optimum drying temperature, and methods and results storage allows statistical analysis of measurements. Three levels of user management ensure data safety—set up and lock temperature settings and method parameters with administrator access.

The HO-4971 provides advanced functionality for professional moisture analysis, while its temperature guide analyzes a sample and determines the optimal drying temperature. Precise and fast results with halogen heating increases efficiency in the lab. Precisely-controlled halogen heating dries samples uniformly, producing repeatable results of 0.01% readability. Four drying profiles and seven shut-off criteria help to perform customized sample tests. Easy tool-free cleaning and intuitive operation with the icon-driven menu navigation. The HO-4971 features a removable pan handler and sample chamber for easy cleaning.

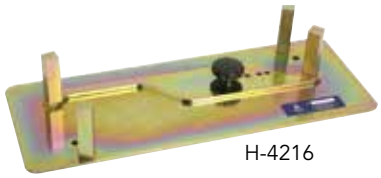
Operating the HO-4971 is intuitive—simply follow the guided instructions on the touchscreen display.

Model	HO-4971
Capacity	120g
Readability	0.01% / 0.001g
Sample Size	3g to 20g typical, 0.5g min.
Heating Tech	Halogen
Power	100 to 240V, 40/60 HZ
Temp. Range	104° 397°F (40–203°C)
Display Type	4.3 in/109 mm, QVGA, TFT touch screen
Weighing Units	%moisture or %solids or weight (g), temperature, time
Pan Size	3.5" / 90mm
Dimensions (W x D x H)	6.5" x 11" x 5" 170 x 250 x 140mm

Moisture Analyzer-Pro Analytical, 120g HO-4971
Shipping wt. 18.4 lbs (8.35kg)


H-1680A


H-1686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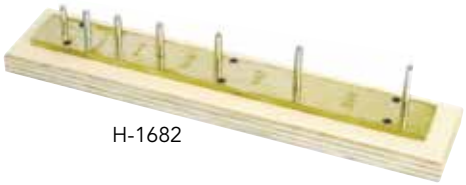
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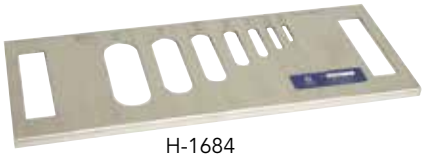

H-1684


Flakiness Sieves

Void Content Apparatus, Fine Aggregate
ASTM C1252; AASHTO TP33

Used to determine the uncompacted void content of a fine aggregate sample. Indicates the angularity, sphericality, and workability of fine aggregate in a mixture. Includes 100 ml brass cylindrical measure, funnel assembly, funnel stand, and glass plate for calibration. **Order overflow pan, scoop and strike-off spatula separately.**

Void Content Apparatus — H-1680A
Shipping wt. 3 lbs (1kg)

H-1608A Accessories

Item	Part No.
Overflow Pan, 12" x 1.5"Aluminum	H-4940.6
Material Handling Scoop	H-3731
Spatula, 6-inch	H-4906
Glass Plate, 4" x 4" x .0375"	H-3049

Void Content Apparatus, Coarse Aggregate
AASHTO T326

Used to determine the void content of uncompacted coarse aggregate used in HMA applications. When used on aggregate of a known size, the void content provides the user with an indication of the angularity, sphericity and surface texture as compared to other course aggregate 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 off 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.

Void Content Apparatus, Coarse — H-1686
Shipping wt. 30 lbs (14kg)

H-1686 Accessories

Item	Part No.
Overflow Pan, 12" x 1.5"Aluminum	H-4940.6
Material Handling Scoop	H-3731
Glass Plate, 170mm	H-1686.2

Proportional Caliper Device
ASTM D4791

Use to determine the percentage of flat particles, elongated particles, or both flat and elongated particles in coarse aggregates. Steel construction for strength and 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 = l:2; 3 = 1:3; 4 = 1:4; or 5 = 1:5. It is recommended that the desired procedure be reviewed carefully prior to conducting the test.

Proportional Caliper Device — H-4216
Shipping wt. 10 lbs (4kg)

Elongation Index for Aggregate Classification
BS 812

For determining elongation index. Particle is elongated when its length (longest dimension) is more than 1.8 of the mid-size 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.

Elongation Index — H-1682
Shipping wt. 3 lbs (1kg)

Flakiness Gauge for Classification of Aggregate
BS 812

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 manual evaluation of particles in the seven openings. The mass of all flaky particles (passing appropriate slots) as percent of the sample is the flakiness index. Gauge is enameled sheet metal with clearly marked sieve fraction ranges for each slot.

Flakiness Gauge for Aggregate — H-1684
Shipping wt. 3 lbs (1kg)

Flakiness Sieves Set
BS 812

Complete set of flakiness sieves. These sieves are used to determine if aggregate is flaky. Aggregate is considered flaky if its thickness is less than 0.6 of nominal size. Set is comprised of Sieves listed in the chart below. **Sieves can be ordered separately as well.**

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

Flakiness Sieves Set — H-4392
Shipping wt. 33 lbs (15.8kg)


H-3860D


H-3860.100
(shown with H-3860D, not included)


HM-4100A.2


HM-4100A

Los Angeles Abrasion Machine
ASTM C131, C535; AASHTO T96

The Los Angeles abrasion machine is used to measure the degradation of mineral aggregate of standard gradings resulting from a combination of actions including abrasion or attrition, impact and grinding in a rotating steel drum containing a specified number of steel spheres. The test is widely used as an indicator of the relative quality of various sources of aggregate having similar mineral compositions.

Humboldt's design follows the ASTM-preferred design and features a welded, structural-steel frame, fabricated .5"-thick (913mm) abrasion-resistant steel drum, a removable shelf, bolted to the drum and a balanced drum assembly for easy rotation by hand. The enclosed chain drive rotates the drum without a conventional slip clutch. This positive drive delivers greater accuracy. The self-contained worm-drive motorized speed reducer has anti-friction bearings and sealed lubrication. The 1hp, electronically-controlled motor is equipped with large, push-button controls and an automatic overload cutout. The controls can be removed from the Abrasion Machine and mounted outside a sound enclosure or mounted on a nearby wall. Unit includes user-configured, revolution counter, a material catch pan and one abrasion charge consisting of 12 hardened-steel balls. Dimensions: 39" x 29" x 37" (991 x 737 x 940mm).

LA Abrasion Machine, 120V 60Hz	H-3860D
LA Abrasion Machine, 220V 60Hz	H-3860D.2F
LA Abrasion Machine, 220V 50Hz	H-3860D.5F

Shipping wt. 870 lbs (394kg)

Abrasion Charge
ASTM C131, C535; AASHTO T96

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

Abrasion Charge H-3865
Shipping wt. 12 lbs (6kg)

Materials Catch Pan for LA Abrasion

Replacement pan for use with LA abrasion machine. Dimensions: 24" x 24" x 4" (609 x 609 x 101mm), tapered sides.

Materials Pan for LA Abrasion H-3860.19
Shipping wt. 20.9 lbs (9kg)

Sound Enclosure for LA Abrasion Machine

Full enclosure designed to cut down on noise generated while using the LA abrasion machine. Unit is steel construction with foam lining for noise reduction. Pre-drilled holes accommodate mounting controller on outside of enclosure.

Sound Enclosure for LA Abrasion H-3860.100
Shipping wt. 250 lbs (113kg)

Retrofit Kit for Digital Counter

Kit for retrofitting Digital Counter to older models of LA Abrasion Machines.

Retrofit Kit for Digital Counter H-3860D.CRK
Shipping wt. 4 lbs (1.8kg)

Slake Durability Apparatus
ASTM D4644

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. To aid in sample preparation, additional mesh drums are recommended. Dimensions: 48" x 14" x 9.25" (1,219 x 355 x 235mm).

Slake Durability, 120V 60Hz	HM-4100A
Slake Durability, 220V 50Hz	HM-4100A.5F

Shipping wt. 78 lbs (32kg)

Slake Wire Mesh Drums
ASTM D4644

Set of two wire mesh drums for use with Slake durability apparatus.

Slake Wire Mesh Drums HM-4100A.1
Shipping wt. 20 lbs (9.1kg)

Drum and Tank Assembly
ASTM D4644

Set of two wire mesh drums and water tank assemblies.

Drum and Tank Assembly HM-4100A.2
Shipping wt. 45lbs (20.4kg)

H-3875

H-3875.1

H-3875.2

H-3875.3

Micro-Deval Apparatus

ASTM D6928, D7428; AASHTO T327; Texas 845-49-40; Ontario LS-618

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. The micro-deval's smaller size, smaller sample quantities and simpler procedure make this test method easier and less costly to perform than traditional methods.

The micro-deval meets current ASTM, AASHTO, and Canadian test methods, as well as more stringent Texas DOT requirements. This contemporary version of the micro-deval test should not be confused with older versions originating in Europe which use different equipment and test protocol. 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.

Sample jars revolve behind polycarbonate doors equipped with safety interlocks, so no moving parts are exposed during operation as opposed to older designs, which used unguarded open rollers. The micro-deval machine is a two-tier unit with sturdy steel frame. Each tier carries one stainless steel 5 liter sample jar, which has a 194mm ID and a 170mm internal height with locking cover. Power to the rubber-covered rollers is supplied by a .75hp, 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. For additional sample preparation capacity and greatly reduced testing times, it is recommended that additional sample jars and abrasive charges be used.

Overall dimensions are: 20.5" x 13.5" x 38" (521 x 343 x 965mm).

Optional H-3876 model is equipped with thermally protected motor to meet stricter requirements in some areas. Check your local code before ordering. Slightly different equipment meeting European standard EN 1097-1 is also available and can be quoted upon request.

Micro-Deval, 120V 60Hz	H-3875
Micro-Deval, 230V 50Hz	H-3875.5F
Micro-Deval, 120V 60Hz	H-3876
	Shipping wt. 248 lbs (113kg)

Micro-Deval 5L Sample Jar

ASTM D6928, D7428; AASHTO T327; Texas 845-49-40; Ontario LS-618

Five liter sample jar with locking cover for use with Micro Deval.

Micro-Deval 5L Sample Jar	H-3875.1
	Shipping wt. 13 lbs (6kg)

Micro-Deval Abrasive Charge

ASTM D6928, D7428; AASHTO T327; Texas 845-49-40; Ontario LS-618

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

Micro-Deval Abrasive Charge	H-3875.2
	Shipping wt. 13 lbs (6kg)

Micro-Deval Abrasive Charge Magnet

Magnet is used to assist in removing the abrasive charge from the sample slurry after the Micro-Deval test is complete.

Micro-Deval Abrasive Charge Magnet	H-3875.3
	Shipping wt. 13 lbs (6kg)

Sieves for Micro-Deval Testing

ASTM D6928, D7428; AASHTO T327; Texas 845-49-40; Ontario LS-618

Sieves are required for use in conjunction with micro-deval testing, and are ordered separately. Below are the required mesh sizes called for by the ASTM specifications. Order 8" sieves from page 46 and 12" sieves from page 47. Wet wash sieving can be useful at completion of the abrasion cycle, see pages 55-57 for wet-sieving accessories.

Sieves for Micro-Deval Testing

Coarse Aggregate ASTM D6928	Fine Aggregate ASTM D7428
.75" (19mm)	No. 4 (4.75mm)
.625" (16mm)	No. 8 (2.36mm)
.5" (12.5mm)	No. 16 (1.18mm)
.375" (9.5mm)	No. 30 (600µ)
.265" (6.3mm)	No. 100 (150µ)
No. 4 (4.75mm)	No. 200 (75µ)


H-3422


H-3420


H-3419


H-3418

Moh's Scale of Hardness

Designed to determine mineral hardness by the scratch test method. Set includes 9 specimens, from talc to carborundum. Numbered specimens are keyed to descriptions inside box cover.

Moh's Scale of Hardness — H-3422
Shipping wt. 2 lbs (1kg)

Scratch Hardness Tester

Determines quantity of soft particles in coarse aggregates on basis of scratch hardness. Apparatus consists of 0.0125" (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 (1) replacement brass rod.

Scratch Hardness Tester — H-3420
Shipping wt. 16 lbs (7kg)

Accessories

Item	Part No.
Brass Rods (pkg. of 10) for H-3420	H-3421

Rock Schmidt

ASTM D5873,

The RockSchmidt is a variation of the SilverSchmidt rebound hammer, which has been adapted specifically for rock testing applications, such as UCS correlations or the prediction of penetration rates for tunnel boring machines and rotary drum cutters.

The following features of the hammer make it ideal for rock testing applications:

Impact Angle Independence: The rebound value is independent of the impact direction.

Optimized for Field Work: Tighter sealing against dirt and dust intrusion for longer life. Significantly lighter and more ergonomic than the classic Schmidt hammer. A large number of readings can be saved and downloaded later to a PC.

Preset Statistics: Statistics methods recommended by ISRM and ASTM are implemented into the hammer for automatic calculation of the rebound number. The option is also there to define a user specific statistics method.

Unconfined Compressive Strength: ISRM recommends a correlation between UCS and the rebound value based on the formula UCS = aebR (where R is the rebound value). A correlation in this format may be defined in the PC software and downloaded onto the RockSchmidt.

Young's (E-) Modulus: ISRM recommends a correlation between elastic modulus and the rebound value based on the formula Et = cedR (where R is the rebound value). A correlation in this format may be defined in the software and downloaded to the RockSchmidt.

Weathering Grade: Impacting on the same location twice can be used to correlate to weathering grade. The ISRM recommended method has been included in the device. RockSchmidt, includes battery charger with USB cable, DVD with PC software, carrying strap, grinding stone, documentation and carrying bag.

RockSchmidt Specifications	
Impact energy	N: 2.207Nm — L: 0.735 Nm
Max. Impacts	99 per series
Battery Life	5000 impacts
IP Classification	IP54

RockSchmidt Hammer — H-3419
Shipping wt. 4.9 lbs (2.2kg)

Equotip 550

Extensively used for rock hardness and for investigating weathering effects on rocks. Can be used for correlation to unconfined or uniaxial compressive strength (UCS); testing on weak rocks, porous rocks and those with thin weathering crusts; cores; rectangular blocks and investigations of hardness near edges of samples. The impact energy of the Device D is approximately 1/200th that of the Type N rebound hammer. This makes it very suitable for testing on historical sites, very soft types of rock that cannot be tested with a rebound hammer and also on brittle rock cores that would be damaged by a rebound hammer. The impact Device S features the same impact energy, but with a much more durable ceramic impact body that is more suited to heavy users on harder rock. The Basic Unit includes: Equotip Touchscreen incl. Battery, Power Supply, USB Cable, Surface Roughness Comparator Plate, DVD with Software, Documentation, Carrying Strap and Carrying Case. **Order Device D or Device S separately. Both devices come with the appropriate calibration blocks.**

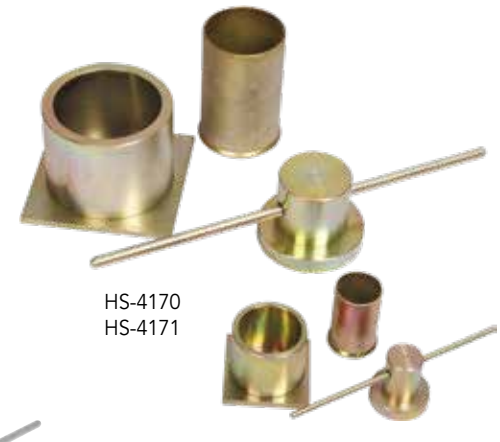
Equotip 550 Basic Unit — H-3417
Shipping wt. 4.9 lbs (2.2kg)

Equotip Accessories

Item	Part No.
Equotip Leeb Impact Device S with calibration blocks	H-3417.1
Equotip Leeb Impact Device D with calibration blocks	H-3417.2
Device Cable 5 ft (1.5m)	H-3418.3
Device Cable 15 ft (5m)	H-3418.4

HS-4157

HS-4158



HS-4170
HS-4171

Point Load Tester

ASTM D5731; EN 1997,

This apparatus is used to determine the strength values of a rock specimen, both in the field and in the laboratory. It consists of a load frame for applying loads up to 55kN, a mounted hydraulic ram and a pressure gauge with 0.001kN precision for maximum load indication. An upper conical platen is fixed on the frame and a lower one on the jack piston. A graduated scale is fixed on the frame and indicates the specimen diameter. The pressure gauge indicator can be read in kN, N, t, kg and bar. The digital display continuously monitors applied load and direct reading of the specimen diameter. Unit is portable and accepts core specimens of up to 4" (101.6mm) in diameter.

Point Load Tester, LB and BAR	HS-4157
Point Load Tester, kN and N	HS-4157M

Shipping wt. 33 lbs (15kg)

Aggregate Impact Value

Used to determine the impact value of aggregates and select them for a given application. The device has a trip-action hammer release, blow counter device and a built-in operator safety device. Heavy-duty construction with hardened steel surfaces for minimum wear. The complete assembly is cadmium plated for corrosion protection. Includes counter, mold and tamping rod.

Aggregate Impact Value	HS-4158

Shipping wt. 36 lbs (16.5kg)

Aggregate Crushing Value

The aggregate crushing value provides a relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load. Consists of a piston, piston cover, base plate, tamping rod and measure. Available in two sizes 150mm and 75mm.

Hoek Cell, 75mm	HS-4170
Hoek Cell, 150mm	HS-4171

Shipping wt. 33 lbs (15kg)

HCM-4000iHA

HCM-5070

Typical Hoek Cell Compression Machine and Controller Setup

HS-4160

HP-1108

HP-1160

Hoek Cells

Hoek cells are used to measure the strength of cylindrical rock specimens, which are subjected to triaxial compression. They are comprise a steel body and two steel end caps, which are screwed to the body of the cell when in use. The body has two, self-sealing couplings; one of them is for connecting to the hydraulic pressure system, the other is for de-airing the cell chamber and the attachment of a pressure measurement device. Four sizes are available.

Hoek Cell, 30mm	HS-4159
Hoek Cell, 42mm	HS-4160
Hoek Cell, 55mm	HS-4161
Hoek Cell, 1.5"	HS-4162

Shipping wt. 33 lbs (15kg)

Hoek Cell Membranes

Flexible membranes for use with Hoek Cells.

Hoek Cell Membrane, 30mm	HS-4159.1
Hoek Cell Membrane, 42mm	HS-4160.1
Hoek Cell Membrane, 55mm	HS-4161.1
Hoek Cell Membrane, 1.5"	HS-4162.1

Shipping wt. 36 lbs (16.5kg)

Weight per Gallon Cup

ASTM D244

Weight per Gallon Cups are used to quickly and accurately determine the weight per gallon, and also the specific gravity of paints, etc. Capacity of 83.2cc. Includes cover.

Weight per Gallon Cup	HP-1108

Shipping wt. 0.5 lbs (0.2k

Falling Sand Abrasion Tester

ASTM D333, D968, D1395, D2205

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.

Falling Sand Abrasion Tester	HP-1160

Shipping wt. 110 lbs (50kg)