



ADVANTECH

TEST SIEVES & SHAKERS

ASTM E11 SIEVES



PRODUCT
CATALOG

QUALITY EQUIPMENT FOR
PARTICLE SIZE ANALYSIS

SIEVE SHAKERS &
SONIC SIFTERS



ASTM E11
STANDARDS

CENTERLINE®
CERTIFICATION



ADVANTECHMFG • COM



NOTES:

Advantech Manufacturing, Inc., 2450 S. Commerce Dr., New Berlin, WI 53151
262-786-1600 | sales@advantechmfg.com | www.advantechmfg.com

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REPAIR SERVICES & CONTRACT MACHINING	BACK

- ✓ Unrivaled, Responsive Customer Service
- ✓ Entire Array of ASTM E11 Wire Cloth
- ✓ Quick Price Quotes
- ✓ Superior Quality
- ✓ Made in the USA
- ✓ Drop Shipping
- ✓ Short Lead Times
- ✓ Rush Delivery
- ✓ No Minimum Order
- ✓ Extensive Worldwide Distributor Network
- ✓ Cutting-Edge Certification Lab
- ✓ Veteran Owned Small Business

ABOUT US

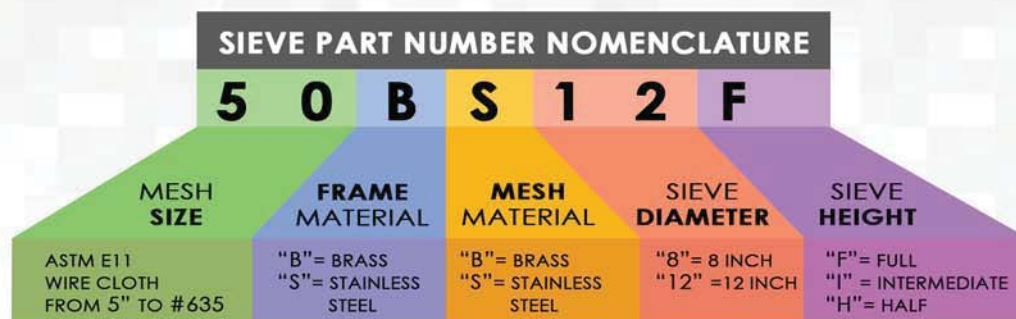
Advantech Manufacturing, Inc. (est. 1970 - Wisconsin, USA) is a leading manufacturer and supplier of particle separation equipment used in quality control environments around the globe. We offer a large variety of US Standard ASTM E11 Testing Sieves, as well as industrial strength, heavy duty sieve shakers. We earn our customers by having superior quality equipment and providing stellar customer service.

DISTRIBUTION INFORMATION



We have an extensive network of dozens of distributors around the world. To locate an Advantech Authorized Distributor nearest to you, please contact us at (262) 786-1600 or email sales@advantechmfg.com.

HOW TO READ A SIEVE PART



Example: 50BS12F is a sieve with number 50 mesh (ASTM wire cloth), a B brass frame and S stainless steel mesh that is 12 inches in diameter and F full height.

DIGITAL RESOURCES

We have a variety of resources available on our website

- Product Manuals
- Video Library
- Product Literature
- Cleaning Instructions
- Certification Instructions
- Sample Certifications
- FAQs
- ASTM Standards Chart

www.advantechmfg.com/resources/

CENTERLINE[®]

TEST SIEVE CERTIFICATION SERVICES



CENTERLINE[®]
CERTIFICATION BY ADVANTECH

When accuracy and traceability are vital components of your Quality Management System, certified sieves assure compliance with the ASTM E11 (American Society for Testing and Materials) specifications. Our Centerline[®] certification reports contain statistical data that is linked to each serialized sieve and provides detailed measurements traceable to the NIST (National Institute of Standards and Technology).

Certification Grade Levels

200C – INSPECTION

Certificate contains inspection data from a percentage of apertures measured based on the ASTM E11 standards table providing a confidence level of **99.0%** that each sieve is within the specifications.

300C – CALIBRATION

Certificate data contains at least twice as many apertures measured than "Inspection" grade sieves, thereby providing the highest confidence level available of **99.73%**.

ASTM E11 Certifications

"Inspection" Grade
"Calibration" Grade

Compliance

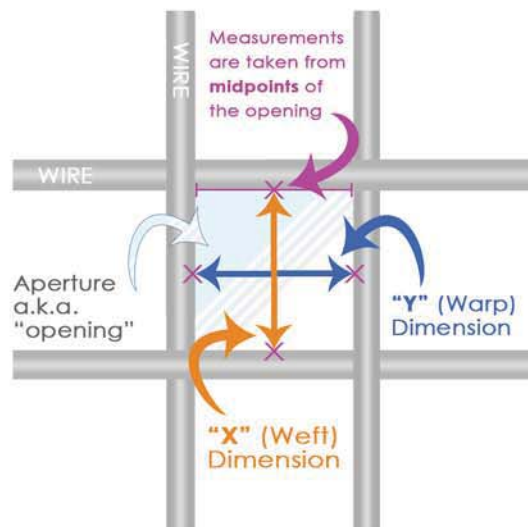
QMS (Quality
Management Systems)

Measurements

NIST Traceable

Certificate Report Data

Pass/Fail Rating
Aperture Sizes
Wire Diameters
Means
Standard Deviations
Min/Max Values
Tolerance Range
Histogram
Sieve Serial Number
Certification Level
Customer Information
Certification Date



Each sieve is scanned by sophisticated optical technology and software which takes accurate aperture (opening) measurements in the "X" and "Y" directions (warp and weft). Wire diameters are also measured to ensure compliance with ASTM E11 specifications.

CENTERLINE® RECERTIFICATION

As with other precision lab instruments, periodic recertification is recommended to ensure the continued accuracy and conformance of your sieve(s). Working sieves that are used regularly will eventually suffer wear, which may produce inaccurate test results. The intervals for sieve re-certification greatly depend upon the properties of your test media, frequency of use, handling and cleaning practices along with your QMS (Quality Management System) requirements. Frequency of certification is determined by the mesh size and usage, which is typically on a semi-annual basis.



RECOMMENDED RECERTIFICATION SCHEDULE

MESH SIZES	NUMBER OF USES	MONTHS IN USE
5" to 1/4"	80	36
1/2" to #12	70	30
#14 to #40	60	24
#45 to #140	50	18
#170 to #325	35	12
#400 to #635	20	6

SAMPLE CERTIFICATION REPORT

ADVANTECH
TEST SIEVES & SHAKERS

2450 S Commerce Dr.
New Berlin, WI 53151
Tel: (262) 786-1600
Fax: (262) 786-5074
advantechmfg.com
sales@advantechmfg.com

Report Number: 70001 021220

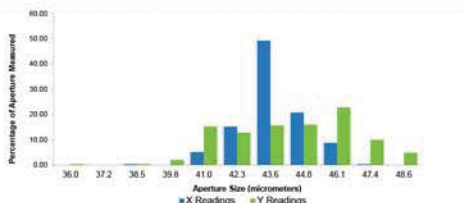
CERTIFICATE OF SIEVE CALIBRATION

Wire Cloth Size Verification Report
Specification Data For ASTM E11-17

Customer: ABC Corporation
Selected Sieve Number: 70001
Date: 2/12/20
U.S. Sieve Designation: #325
QC Technician: Debbie Kaebisch
Apertures Measured: 250
Wire Diameters Measured: 250

Nominal Aperture: 45 µm
Average Aperture Variation: ± 2.8 µm
Maximum Standard Deviation: + 6.53 µm
Maximum Tolerance: 65 µm
Typical Wire Diameter: 0.032 mm
Wire Diameter Tolerance: 0.037 - 0.027 mm

Statistics and Specification	X	Y
Mean µm	43.10	43.71
Standard Deviation µm	1.21	2.37
Minimum Aperture µm	36.30	35.96
Maximum Aperture µm	46.46	48.62
Range µm	8.06	12.66
Wire Diameters mm	0.034	0.034



Measurement System Calibration and Traceability Statement

This sieve/cloth has been inspected for compliance with all applicable specifications using an optical measurement system (Image analysis) per the ASTM E-11 Standard Specification for Woven Wire Cloth and Test Sieves.
Calibration and page stability analyses are performed daily.
Measurement results are traceable to National Institute of Standards and Technology (NIST) via trace number 821027908-87.

Serial No: 3255587-300012
Comments: New Certification

APERTURE Measurements in Microns

Report Number: 70001 021220

X	Y	X	Y	X	Y	X	Y	X	Y
42.42	40.52	41.53	41.53	42.82	45.50	44.94	48.09	41.91	48.80

43.10	44.43	43.42	44.43	43.71	44.43	44.02	44.43	44.33	44.43
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44.62	44.43	44.93	44.43	45.24	44.43	45.55	44.43	45.86	44.43
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46.16	44.43	46.47	44.43	46.78	44.43	47.09	44.43	47.40	44.43
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47.94	44.43	48.25	44.43	48.56	44.43	48.87	44.43	49.18	44.43
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49.64	44.43	50.00	44.43	50.36	44.43	50.72	44.43	51.08	44.43
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51.44	44.43	51.80	44.43	52.16	44.43	52.52	44.43	52.88	44.43
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53.34	44.43	53.70	44.43	54.06	44.43	54.42	44.43	54.78	44.43
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55.24	44.43	55.60	44.43	55.96	44.43	56.32	44.43	56.68	44.43
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57.18	44.43	57.54	44.43	57.90	44.43	58.26	44.43	58.62	44.43
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59.08	44.43	59.44	44.43	59.80	44.43	60.16	44.43	60.52	44.43
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61.92	44.43	62.28	44.43	62.64	44.43	63.00	44.43	63.36	44.43
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63.72	44.43	64.08	44.43	64.44	44.43	64.80	44.43	65.16	44.43
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65.52	44.43	65.88	44.43	66.24	44.43	66.60	44.43	66.96	44.43
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67.32	44.43	67.68	44.43	68.04	44.43	68.40	44.43	68.76	44.43
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69.12	44.43	69.48	44.43	69.84	44.43	70.20	44.43	70.56	44.43
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70.92	44.43	71.28	44.43	71.64	44.43	72.00	44.43	72.36	44.43
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72.72	44.43	73.08	44.43	73.44	44.43	73.80	44.43	74.16	44.43
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74.52	44.43	74.88	44.43	75.24	44.43	75.60	44.43	75.96	44.43
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76.32	44.43	76.68	44.43	77.04	44.43	77.40	44.43	77.76	44.43
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78.12	44.43	78.48	44.43	78.84	44.43	79.20	44.43	79.56	44.43
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79.92	44.43	80.28	44.43	80.64	44.43	81.00	44.43	81.36	44.43
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81.72	44.43	82.08	44.43	82.44	44.43	82.80	44.43	83.16	44.43
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83.52	44.43	83.88	44.43	84.24	44.43	84.60	44.43	84.96	44.43
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85.32	44.43	85.68	44.43	86.04	44.43	86.40	44.43	86.76	44.43
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87.12	44.43	87.48	44.43	87.84	44.43	88.20	44.43	88.56	44.43
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88.92	44.43	89.28	44.43	89.64	44.43	90.00	44.43	90.36	44.43
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90.72	44.43	91.08	44.43	91.44	44.43	91.80	44.43	92.16	44.43
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92.52	44.43	92.88	44.43	93.24	44.43	93.60	44.43	93.96	44.43
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94.32	44.43	94.68	44.43	95.04	44.43	95.40	44.43	95.76	44.43
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96.12	44.43	96.48	44.43	96.84	44.43	97.20	44.43	97.56	44.43
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97.92	44.43	98.28	44.43	98.64	44.43	99.00	44.43	99.36	44.43
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99.72	44.43	100.08	44.43	100.44	44.43	100.80	44.43	101.16	44.43
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101.52	44.43	101.88	44.43	102.24	44.43	102.60	44.43	102.96	44.43
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103.32	44.43	103.68	44.43	104.04	44.43	104.40	44.43	104.76	44.43
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105.12	44.43	105.48	44.43	105.84	44.43	106.20	44.43	106.56	44.43
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106.92	44.43	107.28	44.43	107.64	44.43	108.00	44.43	108.36	44.43
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108.72	44.43	109.08	44.43	109.44	44.43	109.80	44.43	110.16	44.43
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110.52	44.43	110.88	44.43	111.24	44.43	111.60	44.43	111.96	44.43
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112.32	44.43	112.68	44.43	113.04	44.43	113.40	44.43	113.76	44.43
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114.12	44.43	114.48	44.43	114.84	44.43	115.20	44.43	115.56	44.43
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115.92	44.43	116.28	44.43	116.64	44.43	117.00	44.43	117.36	44.43
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117.72	44.43	118.08	44.43	118.44	44.43	118.80	44.43	119.16	44.43
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119.52	44.43	119.88	44.43	120.24	44.43	120.60	44.43	120.96	44.43
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121.32	44.43	121.68	44.43	122.04	44.43	122.40	44.43	122.76	44.43
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123.12	44.43	123.48	44.43	123.84	44.43	124.20	44.43	124.56	44.43
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124.92	44.43	125.28	44.43	125.64	44.43	126.00	44.43	126.36	44.43
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126.72	44.43	127.08	44.43	127.44	44.43	127.80	44.43	128.16	44.43
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128.52	44.43	128.88	44.43	129.24	44.43	129.60	44.43	130.00	44.43
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130.36	44.43	130.72	44.43	131.08	44.43	131.44	44.43	131.80	44.43
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132.16	44.43	132.52	44.43	132.88	44.43	133.24	44.43	133.60	44.43
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133.96	44.43	134.32	44.43	134.68	44.43	135.04	44.43	135.40	44.43
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135.76	44.43	136.12	44.43	136.48	44.43	136.84	44.43	137.20	44.43
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137.56	44.43	137.92	44.43	138.28	44.43	138.64	44.43	139.00	44.43
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139.36	44.43	139.72	44.43	140.08	44.43	140.44	44.43	140.80	44.43
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141.16	44.43	141.52	44.43	141.88	44.43	142.24	44.43	142.60	44.43
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142.96	44.43	143.32	44.43	143.68	44.43	144.04	44.43	144.40	44.43
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144.76	44.43	145.12	44.43	145.48	44.43	145.84	44.43	146.20	44.43
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146.56	44.43	146.92	44.43	147.28	44.43	147.64	44.43	148.00	44.43
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148.36	44.43	148.72	44.43	149.08	44.43	149.44	44.43	149.80	44.43
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150.16	44.43	150.52	44.43	150.88	44.43	151.24	44.43	151.60	44.43
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151.96	44.43	152.32	44.43	152.68	44.43	153.04	44.43	153.40	44.43
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153.76	44.43	154.12	44.43	154.48	44.43	154.84	44.43	155.20	44.43
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155.56	44.43	155.92	44.43	156.28	44.43	156.64	44.43	157.00	44.43
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157.36	44.43	157.72	44.43	158.08	44.43	158.44	44.43	158.80	44.43
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159.16	44.43	159.52	44.43	159.88	44.43	160.24	44.43	160.60	44.43
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160.96	44.43	161.32	44.43	161.68	44.43	162.04	44.43	162.40	44.43
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162.76	44.43	163.12	44.43	163.48	44.43	163.84	44.43	164.20	44.43
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164.56	44.43	164.92	44.43	165.28	44.43	165.64	44.43	166.00	44.43
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166.36	44.43	166.72	44.43	167.08	44.43	167.44	44.43	167.80	44.43
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168.16	44.43	168.52	44.43	
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STANDARD SPECIFICATION FOR THE WOVEN WIRE TEST SIEVE CLOTH AND TEST SIEVES



Nominal dimensions and permissible variations for sieve cloth (mesh) for Compliance, Inspection and Calibration grade test sieves

Sieve Designation		Nominal Sieve Opening	± Y Variation for Average Opening	+ X Maximum Variation for Opening	Resulting Maximum Individual Opening	Typical Wire Diameter	Permissible Average Wire Diameter	
U.S. Alternative	Standard						Min	Max
	Millimeters	inches	Millimeters	Millimeters	Millimeters	Millimeters		
5"	125	5.00	3.300	4.06	129.06	8.00	6.8	9.2
4.24"	106	4.24	2.800	3.59	109.59	6.30	5.4	7.2
4"	100	4.00	2.650	3.44	103.44	6.30	5.4	7.2
3-1/2"	90	3.50	2.390	3.18	93.18	6.30	5.4	7.2
3"	75	3.00	2.000	2.78	77.78	6.30	5.4	7.2
2-1/2"	63	2.50	1.690	2.44	65.44	5.60	4.8	6.4
2.12"	53	2.12	1.420	2.15	55.15	5.00	4.3	5.8
2"	50	2.00	1.340	2.06	52.06	5.00	4.3	5.8
1-3/4"	45	1.75	1.210	1.91	46.91	4.50	3.8	5.2
1-1/2"	37.5	1.50	1.010	1.67	39.17	4.50	3.8	5.2
1-1/4"	31.5	1.25	0.855	1.47	32.97	4.00	3.4	4.6
1.06"	26.5	1.06	0.722	1.29	27.79	3.55	3.0	4.1
1.00"	25	1.00	0.682	1.24	26.24	3.55	3.0	4.1
7/8"	22.4	0.875	0.613	1.14	23.54	3.55	3.0	4.1
3/4"	19	0.750	0.522	1.01	20.01	3.15	2.7	3.6
5/8"	16	0.625	0.441	0.89	16.89	3.15	2.7	3.6
0.530"	13.2	0.530	0.365	0.78	13.98	2.80	2.4	3.2
1/2"	12.5	0.500	0.346	0.75	13.25	2.50	2.1	2.9
7/16"	11.2	0.438	0.311	0.69	11.89	2.50	2.1	2.9
3/8"	9.5	0.375	0.265	0.61	10.11	2.24	1.9	2.6
5/16"	8	0.312	0.224	0.54	8.54	2.00	1.7	2.3
0.265"	6.7	0.265	0.189	0.48	7.18	1.80	1.5	2.1
1/4"	6.3	0.250	0.178	0.46	6.76	1.80	1.5	2.1
#3.5	5.6	0.223	0.159	0.42	6.02	1.60	1.3	1.9
#4	4.75	0.187	0.135	0.37	5.12	1.60	1.3	1.9
#5	4	0.157	0.114	0.33	4.33	1.40	1.2	1.7
#6	3.35	0.132	0.096	0.29	3.64	1.25	1.06	1.50
#7	2.8	0.110	0.081	0.26	3.06	1.12	0.95	1.30
#8	2.36	0.0937	0.069	0.23	2.59	1.00	0.85	1.15
#10	2	0.0787	0.059	0.20	2.20	0.90	0.77	1.04
#12	1.7	0.0661	0.050	0.18	1.88	0.80	0.68	0.92
#14	1.4	0.0555	0.042	0.16	1.56	0.71	0.60	0.82
#16	1.18	0.0469	0.036	0.140	1.320	0.63	0.54	0.72
#18	1	0.0394	0.030	0.130	1.130	0.560	0.480	0.64
	Micrometers	inches	Micrometers	Micrometers	Micrometers	Millimeters		
#20	850	0.0331	26.2	114	964	0.500	0.43	0.58
#25	710	0.0278	22.2	101	811	0.450	0.38	0.52
#30	600	0.0234	19.0	91	691	0.400	0.34	0.46
#35	500	0.0197	16.2	80	580	0.315	0.27	0.36
#40	425	0.0165	14.0	73	498	0.280	0.24	0.32
#45	355	0.0139	12.0	65	420	0.224	0.19	0.26
#50	300	0.0117	10.4	58	358	0.200	0.17	0.23
#60	250	0.0098	8.9	52	302	0.160	0.13	0.19
#70	212	0.0083	7.8	47	259	0.140	0.12	0.17
#80	180	0.0070	6.8	43	223	0.125	0.106	0.150
#100	150	0.0059	6.0	38	188	0.100	0.085	0.115
#120	125	0.0049	5.2	34	159	0.090	0.077	0.104
#140	106	0.0041	4.7	31	137	0.071	0.060	0.082
#170	90	0.0035	4.2	29	119	0.063	0.054	0.072
#200	75	0.0029	3.7	26	101	0.050	0.043	0.058
#230	63	0.0025	3.4	24	87	0.045	0.038	0.052
#270	53	0.0021	3.1	21	74	0.036	0.031	0.041
#325	45	0.0017	2.8	20	65	0.032	0.027	0.037
#400	38	0.0015	2.6	18	56	0.030	0.024	0.035
#450	32	0.0012	2.4	17	49	0.028	0.023	0.033
#500	25	0.0010	2.2	15	40	0.025	0.021	0.029
#635	20	0.0008	2.1	13	33	0.020	0.017	0.023

Advantech manufactures a variety of sieves with the above wire cloth.

Additional ASTM, ISO or custom mesh sizes are available upon request.

8" (203.2 mm) DIAMETER - US STANDARD TEST SIEVES

Depth to wire cloth: Half Height = 1" | Full Height = 2"

US Standard Mesh Size	Brass Frame/Brass Mesh		Brass Frame/Stainless Steel Mesh		Stainless Steel Frame/Stainless Steel Mesh	
	Half	Full	Half	Full	Half	Full
5"			5"BS8H	5"BS8F	5"SS8H	5"SS8F
4.24"			4.24"BS8H	4.24"BS8F	4.24"SS8H	4.24"SS8F
4"			4"BS8H	4"BS8F	4"SS8H	4"SS8F
3-1/2"			3-1/2"BS8H	3-1/2"BS8F	3-1/2"SS8H	3-1/2"SS8F
3"			3"BS8H	3"BS8F	3"SS8H	3"SS8F
2-1/2"			2-1/2"BS8H	2-1/2"BS8F	2-1/2"SS8H	2-1/2"SS8F
2.12"			2.12"BS8H	2.12"BS8F	2.12"SS8H	2.12"SS8F
2"			2"BS8H	2"BS8F	2"SS8H	2"SS8F
1-3/4"			1-3/4"BS8H	1-3/4"BS8F	1-3/4"SS8H	1-3/4"SS8F
1-1/2"			1-1/2"BS8H	1-1/2"BS8F	1-1/2"SS8H	1-1/2"SS8F
1-1/4"			1-1/4"BS8H	1-1/4"BS8F	1-1/4"SS8H	1-1/4"SS8F
1.06"			1.06"BS8H	1.06"BS8F	1.06"SS8H	1.06"SS8F
1.00"			1.00"BS8H	1.00"BS8F	1.00"SS8H	1.00"SS8F
7/8"			7/8"BS8H	7/8"BS8F	7/8"SS8H	7/8"SS8F
3/4"			3/4"BS8H	3/4"BS8F	3/4"SS8H	3/4"SS8F
5/8"			5/8"BS8H	5/8"BS8F	5/8"SS8H	5/8"SS8F
.530"			.530"BS8H	.530"BS8F	.530"SS8H	.530"SS8F
1/2"			1/2"BS8H	1/2"BS8F	1/2"SS8H	1/2"SS8F
7/16"			7/16"BS8H	7/16"BS8F	7/16"SS8H	7/16"SS8F
3/8"			3/8"BS8H	3/8"BS8F	3/8"SS8H	3/8"SS8F
5/16"			5/16"BS8H	5/16"BS8F	5/16"SS8H	5/16"SS8F
.265"			.265"BS8H	.265"BS8F	.265"SS8H	.265"SS8F
1/4"			1/4"BS8H	1/4"BS8F	1/4"SS8H	1/4"SS8F
#3.5			#3.5BS8H	#3.5BS8F	#3.5SS8H	#3.5SS8F
#4			4BS8H	4BS8F	4SS8H	4SS8F
#5			5BS8H	5BS8F	5SS8H	5SS8F
#6			6BS8H	6BS8F	6SS8H	6SS8F
1/8"*			1/8"BS8H	1/8"BS8F	1/8"SS8H	1/8"SS8F
#7	Half	Full	7BS8H	7BS8F	7SS8H	7SS8F
#8	8BB8H	8BB8F	8BS8H	8BS8F	8SS8H	8SS8F
#10	10BB8H	10BB8F	10BS8H	10BS8F	10SS8H	10SS8F
#12	12BB8H	12BB8F	12BS8H	12BS8F	12SS8H	12SS8F
#14	14BB8H	14BB8F	14BS8H	14BS8F	14SS8H	14SS8F
#16	16BB8H	16BB8F	16BS8H	16BS8F	16SS8H	16SS8F
#18	18BB8H	18BB8F	18BS8H	18BS8F	18SS8H	18SS8F
#20	20BB8H	20BB8F	20BS8H	20BS8F	20SS8H	20SS8F
#25	25BB8H	25BB8F	25BS8H	25BS8F	25SS8H	25SS8F
#30	30BB8H	30BB8F	30BS8H	30BS8F	30SS8H	30SS8F
#35	35BB8H	35BB8F	35BS8H	35BS8F	35SS8H	35SS8F
#40	40BB8H	40BB8F	40BS8H	40BS8F	40SS8H	40SS8F
#45	45BB8H	45BB8F	45BS8H	45BS8F	45SS8H	45SS8F
#50	50BB8H	50BB8F	50BS8H	50BS8F	50SS8H	50SS8F
#60	60BB8H	60BB8F	60BS8H	60BS8F	60SS8H	60SS8F
#70	70BB8H	70BB8F	70BS8H	70BS8F	70SS8H	70SS8F
#80	80BB8H	80BB8F	80BS8H	80BS8F	80SS8H	80SS8F
#100	100BB8H	100BB8F	100BS8H	100BS8F	100SS8H	100SS8F
#120	120BB8H	120BB8F	120BS8H	120BS8F	120SS8H	120SS8F
#140	140BB8H	140BB8F	140BS8H	140BS8F	140SS8H	140SS8F
#170	170BB8H	170BB8F	170BS8H	170BS8F	170SS8H	170SS8F
#200	200BB8H	200BB8F	200BS8H	200BS8F	200SS8H	200SS8F
#230	230BB8H	230BB8F	230BS8H	230BS8F	230SS8H	230SS8F
#270	270BB8H	270BB8F	270BS8H	270BS8F	270SS8H	270SS8F
#325	325BB8H	325BB8F	325BS8H	325BS8F	325SS8H	325SS8F
#400	400BB8H	400BB8F	400BS8H	400BS8F	400SS8H	400SS8F
#450			450BS8H	450BS8F	450SS8H	450SS8F
#500			500BS8H	500BS8F	500SS8H	500SS8F
#635			635BS8H	635BS8F	635SS8H	635SS8F

*1/8" is not currently part of the ASTM E11 Specifications.

12" (304.8 mm) DIAMETER - US STANDARD TEST SIEVES

Depth to wire cloth: Half Height = 1 5/8" | Intermediate Height = 2" | Full Height = 3 1/4"

US Standard Mesh Size	Brass Frame/Stainless Steel Mesh			Stainless Steel Frame/Stainless Steel Mesh		
	Half	Intermediate	Full	Half	Intermediate	Full
5"	5"BS12H	5"BS12I	5"BS12F	5"SS12H	5"SS12I	5"SS12F
4.24"	4.24"BS12H	4.24"BS12I	4.24"BS12F	4.24"SS12H	4.24"SS12I	4.24"SS12F
4"	4"BS12H	4"BS12I	4"BS12F	4"SS12H	4"SS12I	4"SS12F
3-1/2"	3-1/2"BS12H	3-1/2"BS12I	3-1/2"BS12F	3-1/2"SS12H	3-1/2"SS12I	3-1/2"SS12F
3"	3"BS12H	3"BS12I	3"BS12F	3"SS12H	3"SS12I	3"SS12F
2-1/2"	2-1/2"BS12H	2-1/2"BS12I	2-1/2"BS12F	2-1/2"SS12H	2-1/2"SS12I	2-1/2"SS12F
2.12"	2.12"BS12H	2.12"BS12I	2.12"BS12F	2.12"SS12H	2.12"SS12I	2.12"SS12F
2"	2"BS12H	2"BS12I	2"BS12F	2"SS12H	2"SS12I	2"SS12F
1-3/4"	1-3/4"BS12H	1-3/4"BS12I	1-3/4"BS12F	1-3/4"SS12H	1-3/4"SS12I	1-3/4"SS12F
1-1/2"	1-1/2"BS12H	1-1/2"BS12I	1-1/2"BS12F	1-1/2"SS12H	1-1/2"SS12I	1-1/2"SS12F
1-1/4"	1-1/4"BS12H	1-1/4"BS12I	1-1/4"BS12F	1-1/4"SS12H	1-1/4"SS12I	1-1/4"SS12F
1.06"	1.06"BS12H	1.06"BS12I	1.06"BS12F	1.06"SS12H	1.06"SS12I	1.06"SS12F
1.00"	1.00"BS12H	1.00"BS12I	1.00"BS12F	1.00"SS12H	1.00"SS12I	1.00"SS12F
7/8"	7/8"BS12H	7/8"BS12I	7/8"BS12F	7/8"SS12H	7/8"SS12I	7/8"SS12F
3/4"	3/4"BS12H	3/4"BS12I	3/4"BS12F	3/4"SS12H	3/4"SS12I	3/4"SS12F
5/8"	5/8"BS12H	5/8"BS12I	5/8"BS12F	5/8"SS12H	5/8"SS12I	5/8"SS12F
.530"	.530"BS12H	.530"BS12I	.530"BS12F	.530"SS12H	.530"SS12I	.530"SS12F
1/2"	1/2"BS12H	1/2"BS12I	1/2"BS12F	1/2"SS12H	1/2"SS12I	1/2"SS12F
7/16"	7/16"BS12H	7/16"BS12I	7/16"BS12F	7/16"SS12H	7/16"SS12I	7/16"SS12F
3/8"	3/8"BS12H	3/8"BS12I	3/8"BS12F	3/8"SS12H	3/8"SS12I	3/8"SS12F
5/16"	5/16"BS12H	5/16"BS12I	5/16"BS12F	5/16"SS12H	5/16"SS12I	5/16"SS12F
.265"	.265"BS12H	.265"BS12I	.265"BS12F	.265"SS12H	.265"SS12I	.265"SS12F
1/4"	1/4"BS12H	1/4"BS12I	1/4"BS12F	1/4"SS12H	1/4"SS12I	1/4"SS12F
#3.5	#3.5BS12H	#3.5BS12I	#3.5BS12F	#3.5SS12H	#3.5SS12I	#3.5SS12F
#4	4BS12H	4BS12I	4BS12F	4SS12H	4SS12I	4SS12F
#5	5BS12H	5BS12I	5BS12F	5SS12H	5SS12I	5SS12F
#6	6BS12H	6BS12I	6BS12F	6SS12H	6SS12I	6SS12F
1/8"*	1/8"BS12H	1/8"BS12I	1/8"BS12F	1/8"SS12H	1/8"SS12I	1/8"SS12F
#7	7BS12H	7BS12I	7BS12F	7SS12H	7SS12I	7SS12F
#8	8BS12H	8BS12I	8BS12F	8SS12H	8SS12I	8SS12F
#10	10BS12H	10BS12I	10BS12F	10SS12H	10SS12I	10SS12F
#12	12BS12H	12BS12I	12BS12F	12SS12H	12SS12I	12SS12F
#14	14BS12H	14BS12I	14BS12F	14SS12H	14SS12I	14SS12F
#16	16BS12H	16BS12I	16BS12F	16SS12H	16SS12I	16SS12F
#18	18BS12H	18BS12I	18BS12F	18SS12H	18SS12I	18SS12F
#20	20BS12H	20BS12I	20BS12F	20SS12H	20SS12I	20SS12F
#25	25BS12H	25BS12I	25BS12F	25SS12H	25SS12I	25SS12F
#30	30BS12H	30BS12I	30BS12F	30SS12H	30SS12I	30SS12F
#35	35BS12H	35BS12I	35BS12F	35SS12H	35SS12I	35SS12F
#40	40BS12H	40BS12I	40BS12F	40SS12H	40SS12I	40SS12F
#45	45BS12H	45BS12I	45BS12F	45SS12H	45SS12I	45SS12F
#50	50BS12H	50BS12I	50BS12F	50SS12H	50SS12I	50SS12F
#60	60BS12H	60BS12I	60BS12F	60SS12H	60SS12I	60SS12F
#70	70BS12H	70BS12I	70BS12F	70SS12H	70SS12I	70SS12F
#80	80BS12H	80BS12I	80BS12F	80SS12H	80SS12I	80SS12F
#100	100BS12H	100BS12I	100BS12F	100SS12H	100SS12I	100SS12F
#120	120BS12H	120BS12I	120BS12F	120SS12H	120SS12I	120SS12F
#140	140BS12H	140BS12I	140BS12F	140SS12H	140SS12I	140SS12F
#170	170BS12H	170BS12I	170BS12F	170SS12H	170SS12I	170SS12F
#200	200BS12H	200BS12I	200BS12F	200SS12H	200SS12I	200SS12F
#230	230BS12H	230BS12I	230BS12F	230SS12H	230SS12I	230SS12F
#270	270BS12H	270BS12I	270BS12F	270SS12H	270SS12I	270SS12F
#325	325BS12H	325BS12I	325BS12F	325SS12H	325SS12I	325SS12F
#400	400BS12H	400BS12I	400BS12F	400SS12H	400SS12I	400SS12F
#450	450BS12H	450BS12I	450BS12F	450SS12H	450SS12I	450SS12F
#500	500BS12H	500BS12I	500BS12F	500SS12H	500SS12I	500SS12F
#635	635BS12H	635BS12I	635BS12F	635SS12H	635SS12I	635SS12F

*1/8" is not currently part of the ASTM E11 Specifications.

PANS, MIDSTACK PANS & COVERS

8" Diameter		
Description	Brass	Stainless Steel
Pan Half Ht	PB8H	PS8H
Midstack Pan Half Ht	PB8HX	PS8HX
Pan Full Ht	PB8F	PS8F
Midstack Pan Full Ht	PB8FX	PS8FX
Cover without Lifting Ring	CB8	CS8
Cover with Lifting Ring	CB8W/R	CS8W/R

Mesh-less spacer frames, in all sizes, available upon request.



12" Diameter		
Description	Brass	Stainless Steel
Pan Half Ht	PB12H	PS12H
Midstack Pan Half Ht	PB12HX	PS12HX
Midstack Pan Intermediate Ht	PB12IX	PS12IX
Pan Full Ht	PB12F	PS12F
Midstack Pan Full Ht	PB12FX	PS12FX
Cover without Lifting Ring	CB12	CS12
Cover with Lifting Ring	CB12W/R	CS12W/R

WASH SIEVES

All Wash Sieves have brass frames with stainless steel mesh. Contact us for additional mesh sizes and support cloth options.



U.S. Standard Mesh Size	8" Deep (8 5/8" overall ht.)	4" Deep (4 5/8" overall ht.)
#120	120BS8W8	120BS8W4
#140	140BS8W8	140BS8W4
#170	170BS8W8	170BS8W4
#200	200BS8W8	200BS8W4
#230	230BS8W8	230BS8W4
#270	270BS8W8	270BS8W4
#325	325BS8W8	325BS8W4
#400	400BS8W8	400BS8W4
#450	450BS8W8	450BS8W4
#500	500BS8W8	500BS8W4
#635	635BS8W8	635BS8W4

SIEVE BRUSHES

We have a wide variety of brushes to meet your specific needs. Visit the "Resources" page on our website for Care and Cleaning Tips.

Not for use with electroformed nickel mesh sieves.

Description	Dimensions
R8576 BEST SELLER Soft Brass Bristle with Wood Handle	3"w x 1.25"h x 8"L
R8577 BEST SELLER Nylon Bristle with Wood Handle	2"w x 2"h x 7"L
R7100 Black Oil Tempered Bristle with Wire Loop	1.25"w x .25"h x 5.5"L
R7200 Natural White Bristle with Wood Handle	3/8"w x 3/8"h x 6"L
R7300 Black Natural Bristle with Wood Handle	1.5"w x 1.5"w x 6.5"L
R7400 Oval Tapered Natural Bristle with Wood Handle	1.25"w x 1.25"h x 10.5"L
R7600 Stiff Brass Bristle with Polypropylene Handle	1.5"w x 1.25"h x 9"L

Special Order or Custom Test Sieves

We can assemble 8" and 12" test sieves with special wire cloth or perforated plate. Please contact us at 262-786-1600 or sales@advantechmfg.com to discuss your request.

Support Cloth for Fine Mesh Sieves

Upon request, include an additional layer of wire cloth that provides support for fine mesh sieves, which extends sieve life, particularly in wet-sieving. Support cloth is #20 calendered market grade stainless steel, unless otherwise specified. Additional cost applies.

DURATAP™ SIEVE SHAKER



SPECIFICATIONS

Capacity:

8" or 200mm diameter:

7 full ht. sieves + pan

14 half ht. sieves + pan

12" or 300mm diameter:

4 full ht. sieves + pan

6 intermediate ht. sieves + pan

8 half ht. sieves + pan

Dimensions

28" w x 21" d x 25" h

(71.1cm x 53.3cm x 63.5cm)

Weight

170 lbs. (91 kg) net

Timer

± 2 seconds over 24 hours

Agitation Method

Oscillation and vertical tapping

DURABLE. HEAVY DUTY. BUILT TO LAST.

The DuraTap™ is known as the most well-built, consistent sieve shaker available on the market.

The device uses aggressive oscillation and a vertical tapping hammer to optimally separate particles.

Advantech has engineered the DuraTap™ with wear-surface parts made of industrial strength steel and alloy materials to withstand rigorous duty cycles. There is not a need to purchase an "accessory pack" of repair parts like similar sieve shakers. Each unit is thoroughly tested before shipment, guaranteeing performance right out of the box.

FEATURES

- ✓ **Rugged construction**
- ✓ Electric vertically mounted **enclosed motor** (1/4 HP)
- ✓ **Grease fittings** provide longer bearing life
- ✓ **Built-in digital timer**
- ✓ Works with **either imperial or metric** sized sieve stacks
- ✓ Models available for **any power environment**
- ✓ **One-year limited warranty**



Ideal for use with dry media in pellet, ground, granular or powdered forms including:

- aggregates
- sands
- cements
- chemicals
- pharmaceuticals
- powdered metals
- cosmetics
- grains & seeds
- coal
- soils
- coffee
- tobacco

DURATAP™ for 8" sieves

DT168 – 110vac/60Hz

DT158 – 110vac/50Hz

DT268 – 220vac/60Hz

DT258 – 220vac/50Hz

PA12 – converter to 12"

DURATAP™ for 12" sieves

DT1612 – 110vac/60Hz

DT2612 – 220vac/60Hz

DT2512 – 220vac/50Hz

PA8 – converter to 8"

All sieves, pans and covers are sold separately.

MEINZER II™ SIEVE SHAKER



SPECIFICATIONS

Capacity 8" or 200mm

8 full ht. + pan & cover
15 half ht. + pan & cover

Dimensions

10" dia. x 7" h (254 mm x 178 mm)

Speed

3,600 min⁻¹

Throw

Horizontal 2 mm
Vertical 3 mm

Weight

36 lbs. (16.3 kg) net

Timer

1 – 60 min

Agitation Method

Vibratory

RUGGED. COMPACT. QUIET.

The Meinzer II™ is a portable vibrating sifter, which is virtually maintenance free and built to last. Whether in the field or in the lab, the Meinzer II™ has proven to provide precise, repeatable results time after time.

By utilizing an electromagnetic drive motor, a fixed amplitude and rubber spring mounts, this device produces the simultaneous vertical and horizontal movement needed for basic dry particle sizing analysis. Each unit is thoroughly tested, guaranteeing performance right out of the box.

FEATURES

- ✓ **Quiet** operation
- ✓ **Lightweight**
- ✓ **Portable**
- ✓ **Easy** to use
- ✓ **Large sieve capacity**
- ✓ **Built-in digital timer** with automatic shut off or continuous run feature
- ✓ **Maintenance free**, no moving parts
- ✓ **Rugged construction**
- ✓ **Less sample blinding** and degradation
- ✓ **Durable enclosed motor**
- ✓ **One-year limited warranty**

Ideal for use with dry media in ground, granular or powdered forms including:

- | | |
|-------------------|-----------|
| ● sands | ● seeds |
| ● cements | ● grains |
| ● chemicals | ● coal |
| ● pharmaceuticals | ● soils |
| ● powdered metals | ● coffee |
| ● cosmetics | ● tobacco |

MEINZER for 8" sieves

MEINZ110 - 110vac/60Hz

MEINZ220-50 - 220vac/50Hz

MEINZ220-60 - 220vac/60Hz

Sieves, Pans & Covers are sold separately.

SONIC SIFTER SEPARATOR (L3P)



SPECIFICATIONS

Capacity 3" Acrylic

6 Acrylic L3-S Sieves

3 Acrylic L3-M (Precision Sieves)

Dimensions

10" w x 12" d x 23" h
(25 cm x 31 cm x 61 cm)

Weight

43 lbs. (20 kg) net

Operating Range

Temperatures 0° F to 120° F
(-18° C to 49° C)

Humidity non-condensing

Temperature and humidity should be controlled for optimal results

Timer

± 2 seconds over 24 hours

Agitation Method

Sonic Wave (top) and Vertical Mechanical Pulse (bottom)

RELIABLE. PRECISE. VERSATILE.

Tried and true for 50 years, the world's ORIGINAL Sonic Sifter Separator, otherwise known as the L3P, has become the industry standard and the go-to technology for precision research and quality assurance applications.

Producing results that are typically only achieved by wet sieving, this device uses specially designed 3" diameter clear sieves and an oscillating air column, created by a sonic wave, to separate fine particles. This technology dramatically shortens test times, is virtually maintenance free and produces consistent, accurate results.

FEATURES

- ✓ **Ideal for FINE particle separation** - Sieves range from 5.6 mm to 3 µm
- ✓ **Simple to operate**
- ✓ **Clear acrylic framed sieves** allow for a visual reference to determine proper power level and finish point
- ✓ **Variable amplitude control** - Action can be manipulated to separate particles at maximum efficiency
- ✓ Little to **no screen wear or particle attrition**
- ✓ Large variety of special 3" acrylic sieves with **ASTM E11** wire cloth or **ASTM E161** precision electroformed mesh
- ✓ **On/off vertical mechanical pulse**
- ✓ Each unit **includes a complete Stack Assembly** comprised of: 1 Column Lock, 1 Diaphragm, 1 Top Cone, 6 Clear Acrylic Spacers, 1 Fines Collector and 1 Fines Collector Holder
- ✓ **One-year limited warranty**

SONIC SIFTER

L3P – 110vac/60Hz

L3P-15 – 110vac/50Hz

L3P-25 – 220vac/50Hz

L3P-26 – 220vac/60Hz

3" diameter acrylic sieves are sold separately.

L3-N8 – Horizontal Pulse Accessory (110vac/60Hz)

P6385 - Transformer for Horizontal Pulse Accessory in 220vac power environments



UPGRADE: Horizontal Pulse Accessory

A must for accurate separations below 45 µm. This device helps eliminate agglomerates in extremely fine powders by tapping on alternating sides of the sieve stack while testing.

The ring occupies the lowest space within the stack assembly.

NEW

VARISIFTER™ SONIC SEPARATOR



SPECIFICATIONS

Capacity 3" Acrylic

6 Acrylic L3-S Sieves
3 Acrylic L3-M (Precision Sieves)

Dimensions

10" w x 12" d x 23" h
(25 cm x 31 cm x 61 cm)

Weight

35 lbs. (16 kg) net

Operating Range

Temperatures 0° F to 120° F
(-18° C to 49° C)
Humidity non-condensing
Temperature and humidity should be controlled for optimal results

Timer

1 - 59:59 min

Agitation Method

Sonic Wave (top) and
Mechanical Pulse:
1 Vertical (bottom), 2 Horizontal

FULLY ADJUSTABLE. FAST. ACCURATE.

The next generation sonic sifter. The VariSifter is a top-of-the-line particle separator that generates the same repeatable and reproducible results as with the original L3P Sonic Separator but with upgraded features including adjustable frequency, multiple built-in tapping options, touch screen and a universal power converter.

The device uses 3" clear acrylic sieves that, with an oscillating air column created by a sonic wave accompanied by tapping actions, are capable of quickly achieving separations of particles ranging from 5.6 mm down to 3 μ m. Whether this is the first time purchasing a sonic sifter or you have been using the technology for years, the VariSifter is the new standard in fine particle separation.

FEATURES

- ✓ **Ideal for fine particle separation** - Sieves range from 3 μ m to 5.6 mm
- New** ✓ **Two built-in Horizontal Tappers** - 2 horizontal tapping mechanisms, may be turned on or off
- New** ✓ **Frequency Control** - Adjustable from 15 Hz up to 60 Hz
- ✓ **Amplitude Control** - Adjustable from 0 - 100%
- ✓ **Clear acrylic framed sieves** allow for a visual reference to determine proper power level and finish point
- ✓ **Accurate results and quick test times** - Key-in testing with fully customizable variables
- New** ✓ **Internal universal power converter** - Device can be used in any standard power environment 100vac to 240vac/50Hz or 60Hz
- New** ✓ **Touch Control Panel** - Intuitive and easy to read touch monitor with dynamic Machine Status Indicator and clear visibility of your variables
- ✓ **Vertical mechanical pulse** shears agglomerates and reorients the particles in the air column
- ✓ Each unit includes a **complete Stack Assembly** comprised of: 1 Column Lock, 1 Diaphragm, 1 Top Cone, 6 Spacers, 1 Fines Collector and 1 Fines Collector Holder
- ✓ **One-year limited warranty**

VARISIFTER

VS1000 - universal power

3" diameter acrylic sieves are sold separately.

3" DIAMETER CLEAR ACRYLIC SIEVES

SIEVES WITH ASTM E11 STAINLESS STEEL WIRE CLOTH

Outside Diameter = 3 1/2"
Inside Diameter = 3" | Height = 5/8"

For use with VariSifter and L3P Sonic Separators

U.S. Standard Mesh Size	Opening Size	Part Number
# 3.5	5.60 mm	L3-S3.5
# 4	4.75 mm	L3-S4
# 5	4.00 mm	L3-S5
# 6	3.35 mm	L3-S6
# 7	2.80 mm	L3-S7
# 8	2.36 mm	L3-S8
# 10	2.00 mm	L3-S10
# 12	1.70 mm	L3-S12
# 14	1.40 mm	L3-S14
# 16	1.18 mm	L3-S16
# 18	1.00 mm	L3-S18
# 20	850 µm	L3-S20
# 25	710 µm	L3-S25
# 30	600 µm	L3-S30
# 35	500 µm	L3-S35
# 40	425 µm	L3-S40
# 45	355 µm	L3-S45
# 50	300 µm	L3-S50
# 60	250 µm	L3-S60
# 70	212 µm	L3-S70
# 80	180 µm	L3-S80
# 100	150 µm	L3-S100
# 120	125 µm	L3-S120
# 140	106 µm	L3-S140
# 170	90 µm	L3-S170
# 200	75 µm	L3-S200
# 230	63 µm	L3-S230
# 270	53 µm	L3-S270
# 325	45 µm	L3-S325
# 400	38 µm	L3-S400
# 450	32 µm	L3-S450
# 500	25 µm	L3-S500
# 635	20 µm	L3-S635

PRECISION SIEVES WITH ASTM E161 ELECTROFORMED NICKEL MESH

Outside Diameter = 3 1/2"
Inside Diameter = 3" | Height = 1 1/4"

For use with VariSifter and L3P Sonic Separators

Opening Size	Part Number
150 µm	L3-M150
125 µm	L3-M125
105 µm	L3-M105
100 µm	L3-M100
95 µm	L3-M95
90 µm	L3-M90
85 µm	L3-M85
80 µm	L3-M80
75 µm	L3-M75
70 µm	L3-M70
65 µm	L3-M65
60 µm	L3-M60

Opening Size	Part Number
55 µm	L3-M55
50 µm	L3-M50
45 µm	L3-M45
40 µm	L3-M40
35 µm	L3-M35
30 µm	L3-M30
25 µm	L3-M25
20 µm	L3-M20
15 µm	L3-M15
10 µm	L3-M10
5 µm	L3-M5
3 µm	L3-M3

Precision Sieves: Cancellation fee applies. Lead time is up to 8 weeks.

STACK ASSEMBLY FOR SONIC DEVICES

For use with VariSifter and L3P Sonic Separators

Complete Stack Assembly

L3-N7

INCLUDES:
1 Column Lock,
1 Diaphragm,
1 Top Cone,
6 Acrylic Spacers,
1 Fines Collector,
1 Fines Collector
Holder



Individual Components

L3-N1 Column Lock*

L3-N2 Diaphragm

L3-N3 Top Cone

L3-N4 Clear Acrylic Spacer

L3-N5 Fines Collector

L3-N6 Fines Collector Holder



*Column Locks with a **BLACK** top ring can be used with either the L3P Sonic Separator or VariSifter. Previously sold uncolored Column Locks can **ONLY** BE USED WITH THE L3P Sonic Separator. All other components are interchangeable.



Advantech Manufacturing, Inc. Divisions



For orders, RFQs, parts and repairs,
contact the Advantech Headquarters:

2450 S. Commerce Dr.
New Berlin, WI 53151

262-786-1600

sales@advantechmfg.com

ADVANTECHMFG.COM