

NEW

ELECTROLAB

Your Quality, Our Assurance

ELECTROMAGNETIC Sieve Shaker EMS 08 MON



Amplitude level
On display

8 or 16 Sieve Capacity Particle Size Analyzer

Tri-dimensional Sifting Motion

- The Instrument produces tri-dimensional movement combining a vertical movement with a solution of the material to be sifted on the surface of the sieve

Modes of Sifting

- Continuous
- Intermittent (helps to clear blocked apertures)

Low Maintenance

- Instrument is powered by an electromagnetic drive which has no rotating parts, making it maintenance free and quiet in operation

Isolation of Vibrations from Work Surface

- Non-metallic springs and anti-vibration mountings are fitted to isolate vibrations from work surfaces and reduce noise levels

Quality by Design

- The instrument is powered by an electromagnetic drive which has no rotating parts, making it maintenance free and extremely quiet in operation
- Programmable shake time from 1 min to 99 mins
- The vibratory action produced by the power unit moves the sample all over the sieve in a unique way producing faster and more efficient sieving
- 16 x 2 character alphanumeric display
- Intermittent and continuous shifting motion with 15 programmable levels of amplitude
- The top plate of the sieve shaker has clearly marked calibrated lines to aid visual inspection of the amplitude
- The instrument is fitted with a special clamping device that ensures that the sieves are held firmly and allows them to be quickly removed and replaced
- Suitable for dry and wet sieving

Amplitude Level

- The display shows the amplitude level.



Particle size
analysis



Programmable
sieving duration



Low noise



Capacity
(200 mm dia)

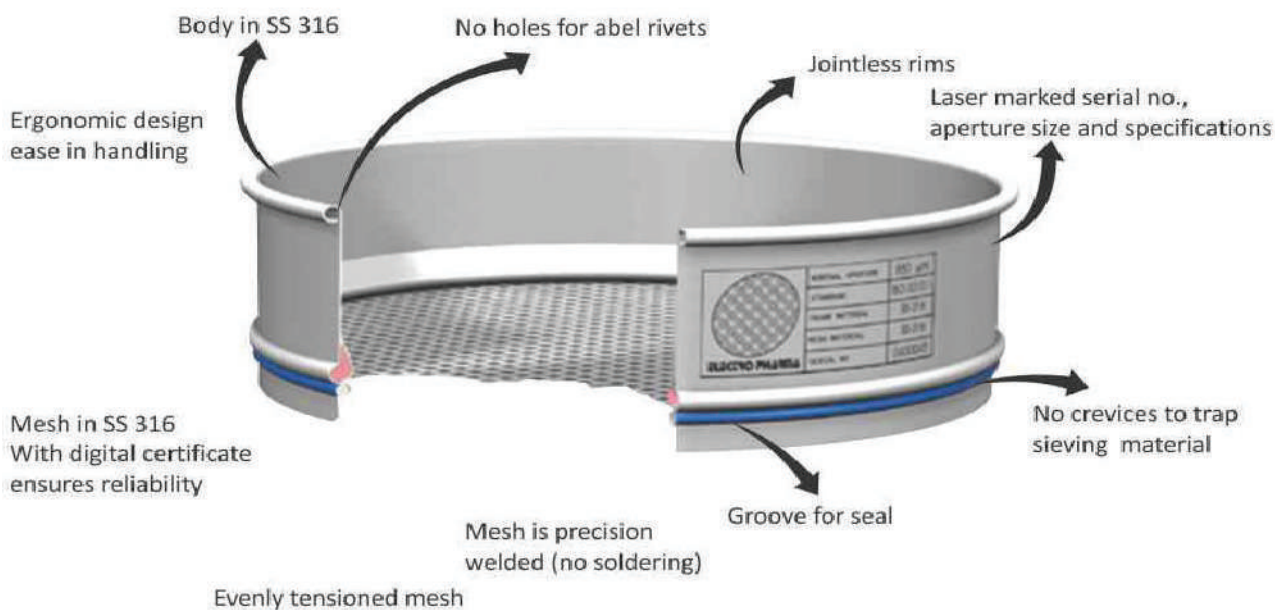


Capacity
(100 mm dia)



User friendly

Advantages of our sieves



ELECTROLAB Inspection Sieve Certificate

Wire Cloth Size Verification Report

Report Number: 200596 05062020
 Relative Humidity: 50 ± 10% RH
 Date: May 06, 2020
 Selected Sieve Number: 200596
 Frame, Mesh Material: S.S. 316
 Sieve Diameter: 100 mm
 Openings Measured: 40
 Wire Diameter Measured: 10

Nominal Opening: 212 µm
 ASTM No.: 70
 Average Opening Variation: ± 7.8 µm
 Max Standard Deviation: + 16.9 µm
 Maximum Tolerance: 259.1 µm
 Typical Wire Diameter: 0.140 mm
 Wire Diameter Tolerance: 0.120 - 0.170 mm

Opening Sizes (mm)			
Table - X Readings		Table - Y Readings	
Value	Frequency	Value	Frequency
0.203 - 0.204	0.000	0.203 - 0.204	0.000
0.205 - 0.206	3.000	0.205 - 0.206	0.000
0.207 - 0.208	8.000	0.207 - 0.208	0.000
0.209 - 0.210	19.000	0.209 - 0.210	0.000
0.211 - 0.212	9.000	0.211 - 0.212	22.000
0.213 - 0.214	1.000	0.213 - 0.214	20.000
0.215 - 0.216	0.000	0.215 - 0.216	1.000
0.217 - 0.218	0.000	0.217 - 0.218	0.000
0.219 - 0.221	0.000	0.219 - 0.221	0.000
TOTAL	40.000	TOTAL	100.000

Summary Statistics (mm)

	X	Y
Mean Opening Size	0.209	0.212
Standard Deviation	0.002	0.002
Range	0.007	0.007
Minimum Opening Size	0.206	0.209
Maximum Opening Size	0.213	0.216
Mean Wire Diameter	0.142	0.143

X and Y reading plot

This Sieve CONFORMS with Electrolab India Pvt Ltd Measurement System Specifications. We confirm that measuring device used are calibrated.

Measurement Device: VMM
 Standard Used: Stage Micrometer, Cert No. T11A/GS/01/19
 certificate electronically generated. Also valid without signature.

Technician - AJT K

ISO Certificate (Optional)

Inspection Sieve Certificate

Wire Cloth Size Verification Report

Report Number: 230949 06022023
 Customer: Zyklus Lifesciences Limited - Morbiya
 Specification Data From ISO 3310-1:2016(E)

Selected Sieve Number: 230949
 Calibration Date: 02/06/2023

Nominal aperture: 500 µm
 Average aperture Variation: ± 16.2 µm
 Max Standard Deviation: + 30.0 µm
 Minimum Tolerance: 500.5 µm
 Typical Wire Diameter: 0.315 mm
 Wire Diameter Tolerance: 0.270 - 0.360 mm

Technician: AJT K
 Apertures Measured: 60
 Wire Diameters Measured: 10

Statistics and Specification		Pass/Fail Status of Measured Apertures	
	X	Y	
Average Aperture Size(mm)	0.498	0.504	1. Does the average aperture size pass test?
Standard Deviation(mm)	0.004	0.005	2. Does the sample pass the maximum Permissible error test?
Minimum Aperture Size(mm)	0.486	0.493	3. Does the sample pass the max. Standard Deviation test?
Maximum Aperture Size(mm)	0.510	0.512	4. Does the sample pass the Wire Diameter test?

Percentage of Apertures Measured

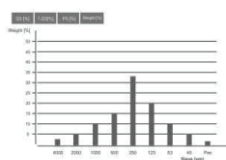
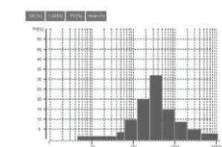
Measurement System Calibration and Traceability Statement

This sieve/cloth has been inspected for compliance with all applicable specification using an VMM per the ISO 3310-1:2016(E) standard specification for Wire Cloth and sieves for Testing purpose.

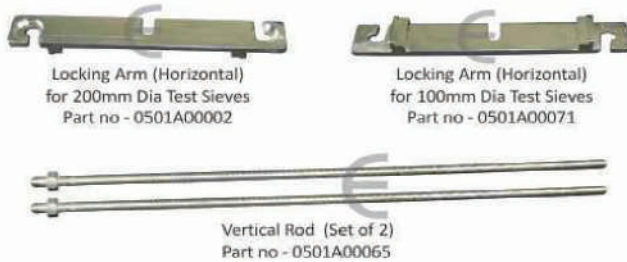
Standard Used: Stage Micrometer, Cert No. T11A/GS/01/22.

SieveEasy™ Particle Size Analyzer Software

ELECTROLAB



Standard accessories



Optional accessories



Backlight knob to fit locking arm (set of 2)
Part no - 0501A00001



Lid & receiver for 200 mm dia test sieves
Part no - 0501A00004



Lid & receiver for 100 mm dia test sieves
Part no - 0501A00005



Wet sieve attachment for 200mm Dia
Part no - 0501A00006



Cares and Maintenance

- Clean sieves by sonicating them in water or a special detergent (Eg. deconex® 12 basic) to ensure accurate and reproducible sieving results
- It is advised not to run the machine without proper locking and tightening both the locking knobs, this may result in an abnormal sound and can damage the machine

Specifications

Model	EMS- 8 Mon	
	230 Volts	110 Volts
Product code	M.S. : 520100 S.S. : 540100	M.S. : 510100 S.S. : 530100
Dry sieving	Standard	
Mode of operation	Continuous and intermittent	
Intermittent operation	At intervals (0.5 sec)	
Capacity	Up to 8 sieves of 200 mm dia x 50 mm h Up to 16 sieves of 100 mm dia x 25 mm h	
Shake time	Programmable from 1 min to 99 min	
Product Category	Particle Size Analyzer	
Amplitude level	Monitor the amplitude through the display.	
Power level	Programmable (from 5 to 20)	
Noise level	<61 dB without sieves at maximum amplitude <71 dB with sieves and material at maximum amplitude	
Power	220/230V AC, 50 Hz, 600 VA	
Dimensions (W x H x D)	312 mm x 339 mm x 270 mm	
Weight	50 Kgs (without sieves)	

Test Sieve Sizes

200 mm dia x 50 mm h and 100 mm dia x 25 mm h

ISO Nominal Aperture
Supplementary

Sizes R40/3	ASTM E11-01	B. S.S. E11-01
4.00 mm	No. 4	-
3.35 mm	No. 6	No. 5
2.80 mm	No. 7	No. 6
2.36 mm	No. 8	No. 7
2.00 mm	No. 10	No. 8
1.70 mm	No. 12	No. 10
1.40 mm	No. 14	No. 12
1.18 mm	No. 16	No. 14
1.00 mm	No. 18	No. 16
850 µm	No. 20	No. 18
710 µm	No. 25	No. 22
600 µm	No. 30	No. 25
500 µm	No. 35	No. 30
425 µm	No. 40	No. 36
355 µm	No. 45	No. 44
300 µm	No. 50	No. 52
250 µm	No. 60	No. 60
212 µm	No. 70	No. 72
180 µm	No. 80	No. 85
150 µm	No. 100	No. 100
125 µm	No. 120	No. 120
106 µm	No. 140	No. 150
90 µm	No. 170	No. 170
75 µm	No. 200	No. 200
63 µm	No. 230	No. 240
53 µm	No. 270	No. 300
45 µm	No. 325	No. 350
38 µm	-	-

The information contained in this document is believed to be correct but ELECTROLAB accepts no liability for any errors and reserves the right to alter specifications without notice
June, 2015/ 050C001

ELECTROLAB (India) PVT. LTD. (CIN NO : U33110MH2002PTC136735)

Head Office : 401, Tirupati Udyog, I. B. Patel road, Off. Western Express highway, Goregaon (East), Mumbai - 400 063, India.

Tel : +91 - 22 - 4041 3131 • E-mail : sales@electrolabindia.com

Factory : EL 23/24, T. T. C., Electronic Zone, M. I. D. C, Mahape, Navi Mumbai - 400 710, India.

Tel : +91 - 22 - 4161 3131 • Website : www.electrolabindia.com