

NEW

Electromagnetic Sieve Shaker

SHAKTUS



Biometric



**Inbuilt
Printer**

21 CFR

**Part 11
Compliant**



**Touch
screen**



**Programmable
sieving duration**





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 the 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



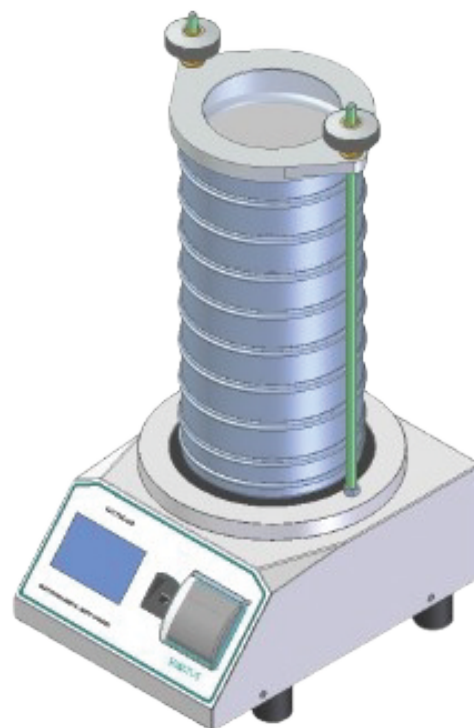
Isolation of Vibrations from Work Surface

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



Quality By Design

- ⦿ Complies with USP,pH.Eur,Ip.
- ⦿ Easily upgradeable at any point
- ⦿ 5" inch Touchscreen Display
- ⦿ Suitable for dry and wet sieving
- ⦿ Compatible with LIMS, MES, and OPC systems.
- ⦿ Compliant with 21 CFR regulations.
- ⦿ Programmable shake time from 1 min to 99 mins
- ⦿ Intermittent and continuous shifting motion with 15 programmable levels of amplitude



User Friendly
Operation



Low
Noise



Security



Lan



Printer



Date &
Time

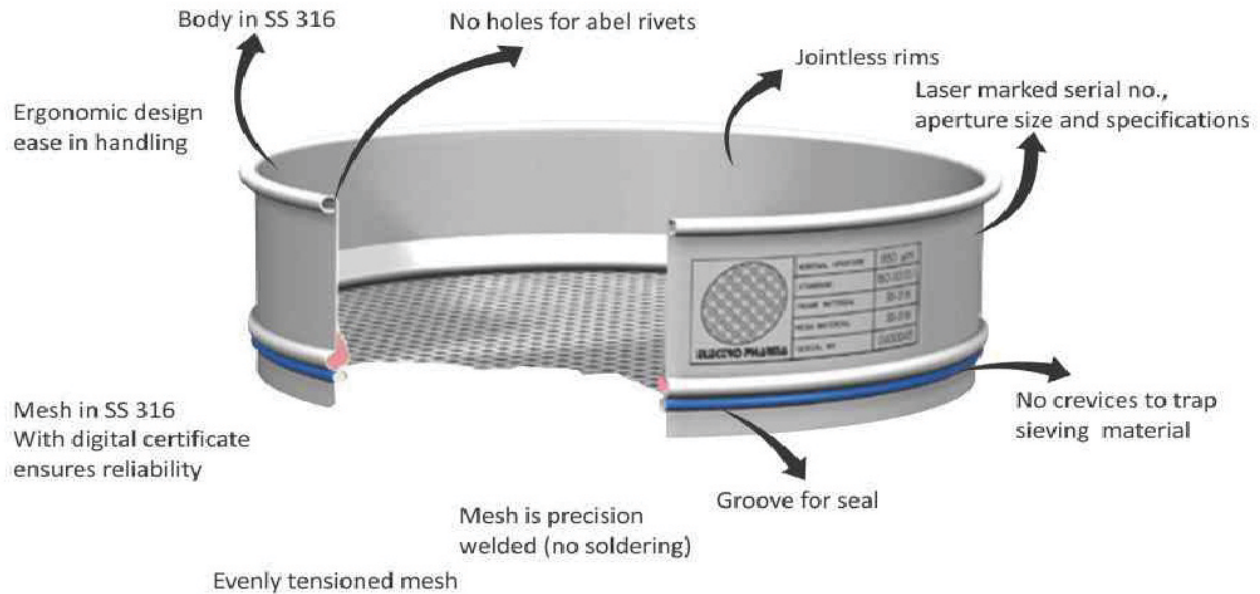
SHAKTUS Licenses

Storage Capacity	Basic	Network	Advance Reporting	CFR	OPC
Users	50	50	250	250	250
Roles	10	10	10	10	10
Audit trails				200000	200000
Report Template			10	10	10
Reports	1 (Last Report)	1 (Last Report)	50000	50000	50000
Products	20	20	1000	1000	1000
Methods	20	20	1000	1000	1000
Logbook			200000	200000	200000

SHAKTUS Licenses						
Modules	Basic	Network	Advance Reporting	CFR	OPC	DM
Basic Security	✓	✓	✓	✓	✓	
Report Print Serial port	✓	✓	✓	✓	✓	
Dlight	✓	✓	✓	✓	✓	
Buzzer	✓	✓	✓	✓	✓	
Machine to Machine data transfer		✓	✓	✓	✓	
Report Print LAN port		✓	✓	✓	✓	
DHCP/Static LAN option		✓	✓	✓	✓	
NetworkTime Sync option		✓	✓	✓	✓	
Advance Security			✓	✓	✓	
Logbook			✓	✓	✓	
Report Template			✓	✓	✓	
Audi trail				✓	✓	
Backup/Restore				✓	✓	
CSV/Json File transfer for LIMS/MES					✓	
Hourly backup(disaster recovery)						✓

Specification	
Model	SHAKTUS
Dry Sieving	Standard
Mode of operation	Continuous and Intermittend
Intermittent Operation	At intervals
Shake Time	Programmable From 1min to 99 min
Display	5" Touch Screen Display
Power Level	Programmable (From 5 to 20)
Noise Level	<62dB without sieves at maximum amplitude <71dB with sieves and material at maximum amplitude
Printer interface	USB & LAN Port
Dimensions (W x H x D)	388mm x 763mm x 312mm
Weight	50 kgs without sieves

Advantages of our sieves



Electrolab Inspection Sieve Certificate (Standard)

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

Temperature 20 ± 2° C
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

Table : X Readings			Table : Y Readings		
Value	Frequency	%	Value	Frequency	%
0.203 - 0.204	0.000	0.000	0.203 - 0.204	0.000	0.000
0.205 - 0.206	3.000	7.500	0.205 - 0.206	0.000	0.000
0.207 - 0.208	8.000	20.000	0.207 - 0.208	0.000	0.000
0.209 - 0.210	19.000	47.500	0.209 - 0.210	9.000	22.500
0.211 - 0.212	9.000	22.500	0.211 - 0.212	22.000	55.000
0.213 - 0.214	1.000	2.500	0.213 - 0.214	8.000	20.000
0.215 - 0.216	0.000	0.000	0.215 - 0.216	1.000	2.500
0.217 - 0.218	0.000	0.000	0.217 - 0.218	0.000	0.000
0.219 - 0.221	0.000	0.000	0.219 - 0.221	0.000	0.000
TOTAL	40.000	100.000	TOTAL	40.000	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: VM8
Standard Used : Stage Micrometer, Cert No. TI/G/S/018/19
certificate electronically generated, Also valid without signature.

Technician - AJIT K

ver 1.1.9

ISO Certificate (Optional)

Inspection Sieve Certificate

Wire Cloth Size Verification Report

Report Number: 230949 06022023

Customer: Zydis Lifesciences Limited - Moravia

Specification Data From ISO 3310-1:2016(E)

Selected Sieve Number: 230949

Calibration Date: 02/06/2023

Technician: AJIT K

Apertures Measured: 60

Wire Diameter Measured: 10

Nominal aperture: 500 µm

Average aperture Variation: +/- 16.2 µm

Max Standard Deviation: + 30.0 µm

Maximum Tolerance: 580.5 µm

Typical Wire Diameter: 0.315 mm

Wire Diameter Tolerance: 0.270 - 0.360 mm

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

Aperture Size (in Millimeter)	Sieve X (%)	Sieve Y (%)
0.486	1.5	1.5
0.488	1.5	1.5
0.490	1.5	1.5
0.492	1.5	1.5
0.494	3.5	3.5
0.496	16.5	3.5
0.498	3.5	3.5
0.500	10.5	3.5
0.502	10.5	3.5
0.504	3.5	13.5
0.506	3.5	13.5
0.508	3.5	3.5
0.510	3.5	3.5
0.512	3.5	3.5

Measurement System Calibration and Traceability Statement

This sieve/wire cloth has been inspected for compliance with all applicable specification using an VM8 per the ISO 3310-1:2016(E) standard specification for Wire Cloth and sieves for Testing purpose.

Standard Used : Stage Micrometer, Cert No. TI/G/S/001/22.



Care & Maintenance

- It is advised to lock the cylinder holder properly before starting the test. Not doing so could lead to accidents and breakage of glasswares

Please ask Electrolab's Service Engineer / Sales Person, to confirm whether your existing Tap Density is compliant to current USP criteria

Standard accessories



Locking Arm (Horizontal)
for 200mm Dia Test Sieves
Part no - 0501A00002



Locking Arm (Horizontal)
for 100mm Dia Test Sieves
Part no - 0501A00071



Vertical Rod (Set of 2)
Part no - 0501A00065

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

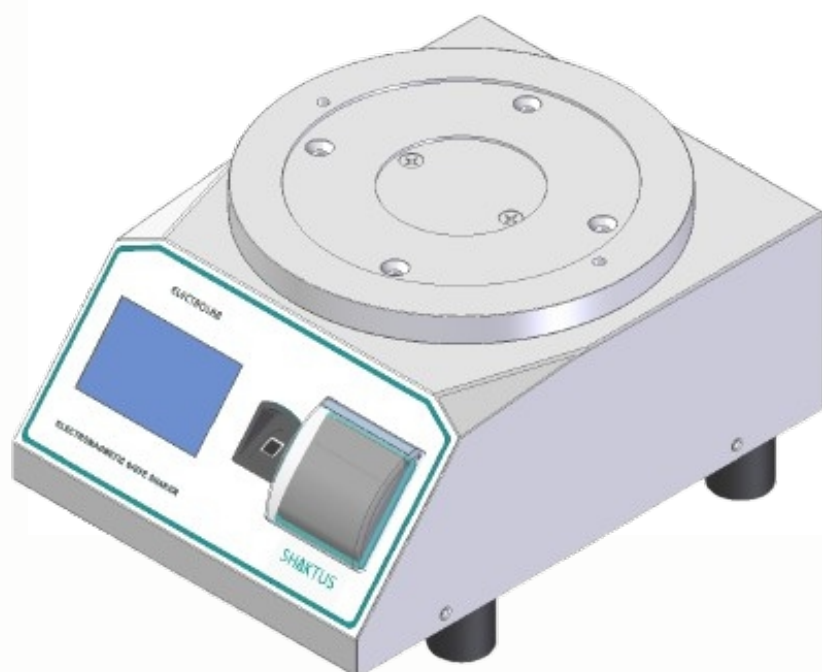


Wet sieve attachment
for 200mm Dia
Part no - 0501A00006



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

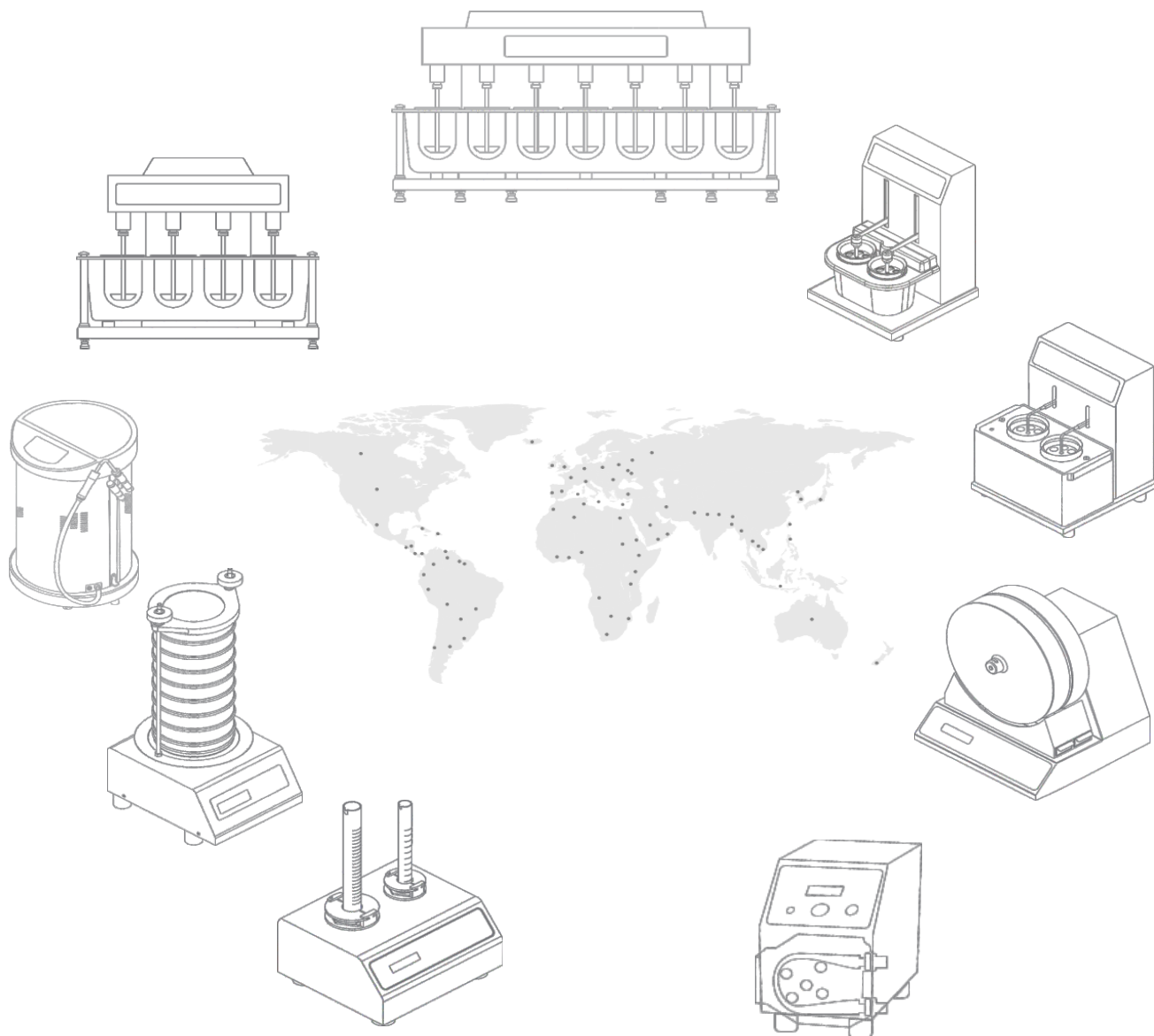


Test Sieve Sizes

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	-	-



Our Products

- Complete range of Dissolution Testers • Dissolution Media Preparator • Friability Testers • Tablet Hardness Testers
- Electromagnetic Sieve Shakers • Tap Density Tester • Bulk Density Tester • Powder Flow Tester • Leak Testers • Peristaltic Pumps



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
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