The new SLS 200 for fast, precise and reproducible particle size analysis of all dry screenings in the laboratory and in production monitoring.

With an analysis range from approx. 20 to 4000 µm, for sample quantities of up to approx. 500 g, depending on material density.

The air-jet necessary for the exceptionally good dispersion, is generated by a vacuum cleaner and directed through the slotted nozzle rotating below the analytical sieve surface.

In order to reduce the screening time and to achieve more precise screening, the shape of the slot nozzle has been lengthened and extended with an additional edge dispersion, which ensures a double loosening of the edge area with each revolution and thus a faster screening result compared to conventional nozzles.

Ionization unit

SLS 200 with glass cover

SLS 200 with 400 mm sieve adapter and air pre-warming device

The fines are drawn through the sieve openings into the container of the vacuum cleaner and collected. The vacuum required for this as well as the screening time can be preset via the app and can be saved using SOPs.

With the stainless steel housing and the stainless steel intake of the sieve, the unit can withstand even the toughest applications.

The air-jet sieve is simple and intuitive to operate via an app.

- **Innovative app control**
  - Standard Operating Procedures (SOP), formula management
  - Display of grain size distributions (Rosin-Rammler and linear diagram)
  - Coupling of analytical balances with optional RS 232 dongle
  - Accessing the operating instructions
  - Direct spare parts inquiry
  - Sample/machine data exportable in csv format
  - Update-friendly app and firmware
- **Automatic vacuum control**
- **USB connection**
- **Optional ionization unit**
  for avoiding/reducing agglomerate formation during screening, especially of plastics, due to electrostatic charging.
- **Optional air pre-warming**
  for avoiding/reducing water absorption of hygroscopic substances during screening.
- **Suitable accessories**
  - Vacuum cleaner
  - Mobile supports with and without sound absorbing housing for the vacuum cleaner
  - Cyclone
  - Adapter set for holding sieves of diameter 400 mm, for screening larger quantities

Adapter for seven sieves of diameter 100 mm

Cyclone

Technical data

Air-jet sieve		SLS 200
Dimensions (W×H×D)	mm	326 × 276 × 468
Weight	kg	22
Nominal diameter of test sieves	mm	200 (optional 100 & 400 mm)
Measurement range	µm	20 - 4000
Slot nozzle drive		AC gear motor, 22 rpm
Operating voltag		110 V - 230 V, 1/N/PE, 50/60 Hz
Mains power connection, vacuum cleaner connection exhausting socket and appliance socket for the vacuum cleaner are located at the rear. Subject to technical changes.		

SIEVE SHAKER - ASM 200

The new ASM 200 can now be controlled using the innovative "LabCo" app and offers the user new possibilities.

The ASM 200 is particularly appealing thanks to the following features:

- **Electromagnetic drive with three-dimensional screening motion**
  in a vertical orientation. This motion ensures even distribution of the screened material on the surface of the sieve, and ensures fast separation thanks to the high proportion of vertical screening motion.
- **Stainless steel housing**
- **Quick-release fasteners for simple sieve tower fixation**
  For transport purposes, the sieve tower fixation can also be removed.
- **Acrylic glass cover**
- **Wet/dry screening**
  For wet screening, a cover with a nozzle and a collecting box with a drain are required.
- **Vibration sensor**
  For recording of vibration amplitude
- **Innovative app control**
  - Adjusting the vibration amplitude to the preset value
  - Interval control
  - Coupling of analytical balances with optional RS 232 dongle
  - Display of grain size distributions (Rosin-Rammler and linear diagram)
  - Standard Operating Procedures (SOP)
  - Accessing the operating instructions
  - Direct spare parts inquiry
  - Sample/machine data exportable in csv format
  - Update-friendly app and firmware

Sieve Shaker
ASM 200

Technical data

Sieve Shaker		ASM 200
Dimensions (W×H×D)	mm	463 × 816 × 488
Weight	kg	35
Test sieve diameter	mm	200
Number of test sieves (internal height 25 mm)		11, optional 16 cover and collection vessel
Measurement range	mm	0.020 – 25
Vibration frequency	rpm	3000
Oscillation diameter	mm	0 – 3.2
Drive type		Electromagnet
Operating voltage		230 V, 1/N/PE, 50 – 60 Hz
Subject to technical changes.		

ANALYTICAL SCREENING MACHINE - LAVIB

Laboratory screening machine LAVIB

The LAVIB 300 is a horizontal screening machine with a horizontal circular screening motion to accommodate test sieves of max. diameter 300 mm.

Due to the uniform movement, the material to be screened is guided over the screen in a circular motion that is very gentle on the material. The use of the horizontal screening machine is limited to dry screening.

The horizontal screening machine is mainly used for the classification of fibrous and platelet-like bulk materials, such as occur in the wood, spice, tobacco and plastics industries, and in grain milling and brewing.

Depending on the application, the machine offers options for fixing the sieve tower or mounting it to remain freely movable on the drive plate.

In the latter case, the centrifugal forces bounce the sieves against the stop pieces, generating additional horizontal impacts on the sieve. These additional pulses shorten the screening time and reduce granule jams.

The eccentric drive for the drive plate and the ballast mass are housed in an attractively designed housing, whose high mass ensures that the machine runs smoothly and remains stable.

The On/Off function and screening duration settings of the maintenance-free machine are controlled via a clearly structured and labeled keypad.

Technical data

Analytical screening machine		LAVIB
Dimensions (W×H×D)	mm	478 × 400 - 611 × 603
Weight	kg	70
Test sieve diameter	mm	100 – 300
Number of test sieves (internal height 25 mm)		8 + cover and collection vessel
Measurement range	mm	0.020 – 63
Vibration frequency	rpm	270
Oscillation diameter	mm	30
Drive type		Geared motor
Operating voltage		230 V, 1/N/PE, 50 Hz
Subject to technical changes.		

SIEVE SHAKER - ASM 400

The ASM 400 can also be controlled with the innovative „Lab-Co" app and offers the user many new possibilities. In particular, the ASM 400 impresses with the following features:

Sieve Shaker ASM 400

- **High degree of fluffing up of the material to be sieved due to double-unbalanced drive**
- **Stainless steel housing**
- **Quick-release clamp for easy screen tower fastening**
  The screen tower fastening can be removed for transport via screw connections.
- **Acrylic glass cover**
- **Wet/dry screening**
  A cover with a nozzle and a collecting vessel with a drain pipe are required for wet sieving.
- **Vibration sensor**
  for measuring the vibration amplitude
- **Sieves with**
  - mesh fabric
  - Perforated plates with round or square perforations
  - Bars for determining the flatness
- **Innovative app control**
  - Import of weighing data via Bluetooth
  - Evaluation of sieve analyses with graphical representation in a linear or RRSB diagram
  - Standard Operating Procedures (SOP)
  - Accessing the operating instructions
  - Direct spare parts enquiry
  - Sample/machine data can be exported via csv file
  - Updatefriendly app and firmware
- **Special version also available for installation in hazardous areas**
- **Soundproof housing**

Technical data

Sieve Shaker		ASM 400
Dimensions (W×H×D)	mm	780 × 1405 × 630
Weight	kg	85
Test sieves diameter	mm	400
Number of test sieves (internal height 60 mm)		10 + cover and collection vessel
Measurement range	mm	0.063 – 90
Vibration frequency	rpm	3000
Oscillation diameter	mm	Max. 3
Drive type		2 unbalance motors
Operating voltage		400 V, 3/N/PE, 50 Hz
Subject to technical changes.		

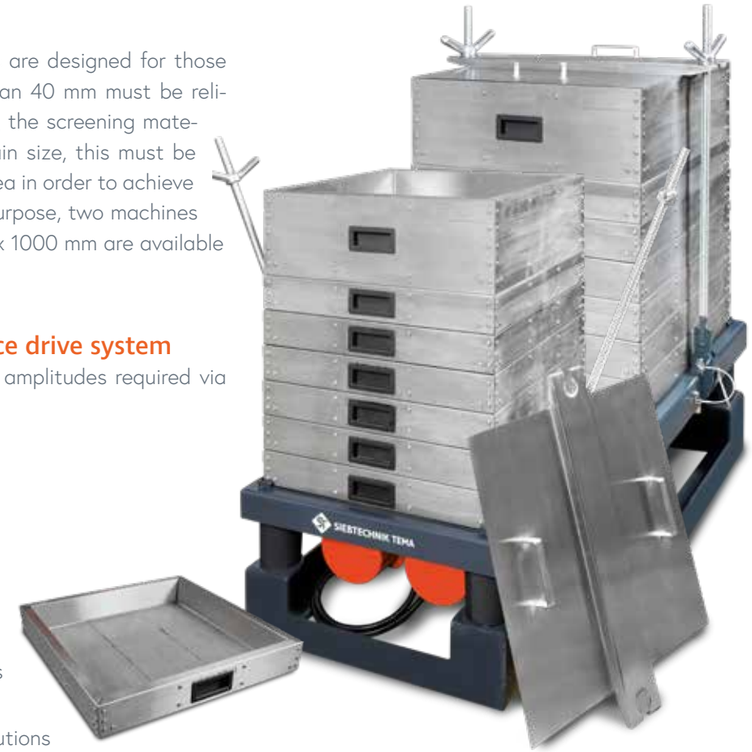
ASM 400 with sound iproof housing and bar screens

LARGE ANALYTICAL SCREENING MACHINE - GAS

The large analytical screening machines are designed for those applications where grain sizes larger than 40 mm must be reliably determined. Since in test screening the screening material quantities increase with coarser grain size, this must be compensated for by the sieve surface area in order to achieve representative test screening. For this purpose, two machines with sieves of 500 x 500 mm and 1000 x 1000 mm are available for the respective tasks.

Both machines have

- **A maintenance-free unbalance drive system**
  which generates the high vibration amplitudes required via two unbalance motors.
- **Test sieves in stainless steel**
- **Low residual vibration**
  thanks to unbalance motor brakes
- **Innovative app control**
  - Display showing vibration amplitude
  - Coupling of analytical balances with optional RS 232 dongle
  - Display of grain size distributions (Rosin-Rammler and linear diagram)
  - Standard Operating Procedures (SOP)
  - Accessing the operating instructions
  - Direct spare parts inquiry
  - Sample/machine data exportable in csv format
  - Update-friendly app and firmware



The clamping rods
for the GAS 1000 can also optionally be designed as a lifting and tilting device. The sieve tower clamped in this device is lifted by a crane so that the lowest test sieve can be emptied by tilting. The GAS 500 and GAS 1000 can also be used as a vibrating table without a sieve set.

Technical data

Large analytical screening machine		GAS 500	GAS 1000
Dimensions (W×H (max. screening tower height) ×D)	mm	714 × 1910 × 701	1214 × 1942 × 1206
Weight (without screening tower)	kg	160	360
Test sieves area	mm	500 × 500	1000 × 1000
Test sieve height	mm	80, 200	125, 200
Max. sieving tower height	mm	1400	1400
Max. load of vibrating table	kg	250	500
Measurement range	mm	0.2 – 125	4 – 125
Vibration frequency	rpm	1000	1000
Oscillation diameter	mm	max. 3.7	max. 3.7
Drive type		2 unbalance motors	2 unbalance motors
Operating voltage		400 V, 3/N/PE, 50 Hz	
Subject to technical changes.			