

Laarmann Products



LM-MG100 Mortal Grinder



LM-MG200 Mortal Grinding



LM-PM01 Planetary Mill One Station



Lab Wizz 400 Micro Ball Mill



LM-FP100 Food Processor



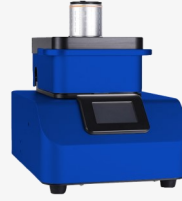
Cyclone



LM-MF4000 multi mill



CM200 Cutting Mill



LM-UCM200 Ultra Centrifugal Mill



LM-DM100 disc mill



LM-JC200 Jaw Crusher



LM-JC50 Jaw Crusher



LM-SMD 75/200 sieve shaker



LM-VDM100 disc mill



LMTM100 tumbler mixer



LM-VF100 vibratory feeder



RSD4 table model

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LAARMANN®

Innovators in Solids

Sample preparation

- LM-SMD 75 200 Sieve Shaker
- RSD4-Table Model
- LM-VF100 Vibratory Feeder
- LM-TM100 Tumbler Mixer





LM-SMD 75 200 Sieve Shaker



RSD4-Table Model



LM-VF100 Vibratory Feeder



LM-TM100 Tumbler Mixer

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Sample testing

Laarmann provides the most professional and perfect sample preparation scheme and technical support for the customers. Application laboratory can process your sample free and recommend the most suitable instrument for you.

● LM-SMD 75/200 Sieve Shaker

LM-SMD is used to batch sieve the solid particle or powder samples. Its electromagnetic drive system guarantees the result is achieved not only in a very short time but also accurate and repeatable. It can perform dry sieving and wet sieving for samples and most parameters can be digital preset. The devices are maintenance free and operation is very quiet.

● Working Principle

The model LM-SMD adopts electromagnetic drive system which generates unique three-dimensional motion to throw samples, that makes the samples distribute evenly on the whole sieve. Intermittent vibration can improve sieving effects and guarantee siev-ing holes are free from blocking.

● Applications

LM-SMD applies for all the inorganic and organic compounds including the sand, rocks, clay, granite, feldspar, coal, soil, grains, seeds and all kinds of solid particles.



● Features and advantages

- Digital setting, all sieving parameters can be preset, simple operation.
- Dry, wet sieving.
- Reliable, repeatable and high efficient sieving result.
- Low noise, maintenance-free.
- Unique sieving with 3D motion, high accuracy.
- Intermittent mode can be selected.
- It can be connected to the computer and controlled by the screening software to perform data processing and analysis, screening evaluation.
- LED 5 inch touch screen, intelligent control, convenient operation.

● Two kinds of clamping device



Standard clamping device



Comfort clamping device and handle

Technical Data

Measuring range	20μm - 25mm	Parameter combinations that can be stored	9
Amplitude adjustment range	0.2-3.0mm	Max. mass of sieve stack	3Kg
Time setting	01~99min	Rated power	400W
Interval operation adjustment range	10~99s	Power supply	220V,50Hz
Drive /sieving mode	Electromagnetic drive	Instrument size (W*D*H)	620*620*490mm
Electromagnetic drive	9	Package size (W*D*H)	620*620*490mm
Sieve diameters	100/150/200/203mm	Net weight	43Kg

LM-SMD 75/200 Sieve Shaker



Smooth rod



Threaded rods



Order information - Rotary Sample Divider

Weight(Kg)

LM-SMD 75/200 Sieve Shaker

43.00	LM-SMD, 220V,50Hz (please order clamping device,collect pan,sieves separately)
Clamping device	
2.00	standard clamping device(standard cover, threaded rods 2pcs,standard nuts 2pcs)
2.70	comfort clamping device(standard cover,smooth rod 2pcs, comfort type fasten clips)
2.70	universal clamping device(incl smooth rod 2 pcs,with water inlet cover, comfort clip)
0.50	standard cover
Sieve stacks and accessories LM-SMD	
3.00	sieve stack including 8 test sieves(ISO3310-1),200mm ø, 50mm height(45µm,63µm, 125µmm,250µm, 500µm,1mm,2mm,4mm) and collectig pan
3.00	sieve stack including 8 test sieves(ASTM E11),203mm(8") ø, 50mm(2") height (325mesh, 230mesh,120mesh,60mesh, 35mesh,18mesh,10mesh,5mesh) and collectig pan

RSD4-Table Model

The RSD4 can evenly divide one sample to 6, 8, 10 uniform small samples. Each small sample has the same physical and chemical properties, and can represent the attributes of the whole batch of samples. Currently, the divider is the most accurate sample dividing device on the market.

Applications

Engineering/electronics, building materials, agriculture, pharmaceuticals,chemical/ synthetic materials, metallurgical, geological/environment/ resources recycling, glass/ceramics, biological, food.



Features and advantages

- Extremely high division accuracy
- The parameters are digital and can be preset
- Maintenance-free
- Easy collection and cleaning
- Wide range of the sample bottle volume

Working Principle

Samples enter a taper-shaped rotating pipe via the feed hopper of the vibratory feeder. The rotating pipe rotates at a constant speed; samples move to the channels under the effect of centrifugal force and are collected inside the containers outside the above channels. The samples in all containers have the same physical and chemical properties.

Technical Data

Feed size	< 10 mm	Rated power	100W
Speed adjustable range	80-120rpm/min	Power supply	220V, 50Hz
Time setting	00:01~99:59(hr/min)	Instrument size(W*D*H)	460*456*850mm
Number of divisions	6/8/10	Package size(W*D*H)	590*590*630mm
Volume	100/250/500	Net weight	43Kg

Order information - Rotary Sample Divider

Weight(Kg)

RSD4 complete unit , incl. dividing head with 8 outlets, vibratory feederVF100-75/40 and 10 sample bottles 250ml

2.00	standard clamping device(standard cover, threaded rods 2pcs,standard nuts 2pcs)
Accessories	
2.70	sample bottles, 250ml, made in Germany, 10pcs
0.50	sample bottles, 500ml, made in Germany, 10pcs

● LM-VF100 Vibratory Feeder

LM-VF100 Vibratory Feeder is designed to facilitate automatic sample feed for bulk particle or fine powder samples. It can be used in conjunction with the LM-SMD 75/200 sieve shaker

● Working Principle

Samples fall to the vibrating chute via the feed hopper. By adjusting the vibration frequency, the speed of samples (namely sample feed speed) on the vibrating chute can be changed. Finally, the samples fall to the target device for next step processing.

● Features and advantages

- The feed speed can be adjusted continuously
- Easy installation and operation
- Stable, uniform feeding
- Easy cleaning of push-fit feed chute
- Parameters are digital and can be preset



Technical Data

Feed size	< 12 mm	Rated power	40W
Speed setting	0-50	Power supply	220V, 50Hz
Time setting	01~99 min	Instrument size(W*D*H)	274*244*330mm
Width of the chute	75/40 mm	Package size(W*D*H)	590*590*350mm
Hopper Volume	2.2 L	Net weight	11.5Kg

Order information - Vibratory Feeder
Weight(Kg)

LM-VF100 Vibratory Feeder

LM-VF100 complete unit,incl. 75/40mm chute,2.8L hopper and fasten device (the foot stand should be ordered separately when LM-VF100 is used as a set with RSD4)	
11.50	VF 100-75/40 ,220V, 50 Hz

● LM-TM100 Tumbler Mixer

LM-TM100 is suitable for mixing the particulate solid and liquid samples. It can ensure reliable analysis results by rotating evenly, so it is an ideal choice for quality control and R & D.

● Working Principle

According to Schatz Geometric theory, the different specific gravity samples are placed into a closed container and kept rolling-over, inverting, rocking in a multi axial space until to the maximum uniformity.

● Applications

Chemical materials, semiconductor materials, aviation materials, pharmaceuticals, etc

● Features and advantages

- Easy operation, convenient to use
- Dust-free operation, no environmental pollution
- Low noise and high handling capacity



Technical Data

Speed setting range	80-120rpm/min	Rated power	200W
Time setting	00:01~99:59(hr/min)	Power supply	220V , 50Hz
Volume	2L	Instrument size(W*D*H)	496*640*375mm
Net weight	45Kg	Package size(W*D*H)	785*900*780mm

Order information - LM-TM100 Tumbler Mixer
Weight(Kg)

LM-TM100 Tumbler Mixer

45.00	LM-TM100 Tumbler Mixer, 220V,50Hz
Accessories	
0.20	sealed wide mouth sample-mixing bottle, plastic,2L
0.10	fasten rubber ring