LAARMANN®

Innovators in Solids

Laboratory Sampling

MINI SAMPLE DIVIDER

Compact laboratory 0.1 liter sample divider

PRECISION SAMPLE SPLITTING FOR RELIABLE LAB RESULTS

MINI SAMPLE DIVIDER

Features and benefits

- Even division into 6 / 8 / 10 vials
- Handles fine material up to ≤ 2.5 mm feed size
- Up to 160 ml per batch (material dependent)
- Adjustable rotation speed and vibration to stabilize feed
- Rapidly and evenly divides small quantities of material
- Compact benchtop design for laboratory and desk usage
- Ensures a representative sample
- Simple operation and easy cleaning/maintenance

MINI SAMPLE DIVIDER

Working Principle

The Mini Sample Divider is designed to deliver accurate and reproducible sample division for laboratory and quality control applications. By evenly distributing material through a rotating feeder into multiple collection tubes, the system ensures that every subsample remains representative of the original material. This reliable division process minimizes sampling errors and improves the consistency of analytical results.

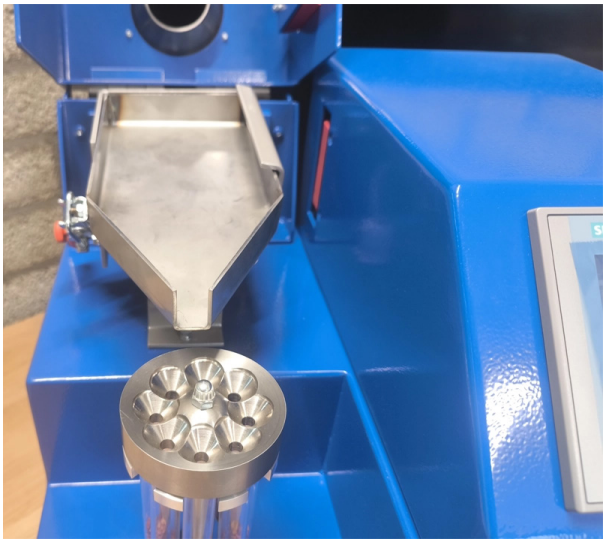
Suitable for a wide range of industries, including mining, geology, environmental laboratories, pharmaceuticals, food production, agriculture, construction materials, and recycling, the Mini Sample Divider provides an efficient solution for sample reduction and preparation.

Mini sample divider closed

Compact Design, Maximum Efficiency

With its compact footprint of only 500 × 300 × 400 mm and a weight of just 15 kg, the Mini Sample Divider easily fits into laboratories where space is limited. Despite its small size, the unit can process sample volumes up to 160 ml per batch and divide material into 6, 8, or 10 collection tubes.

The robust construction combines stainless steel and aluminum contact parts for durability, easy cleaning, and long service life. Its ergonomic design makes routine sample preparation fast, convenient, and reliable.

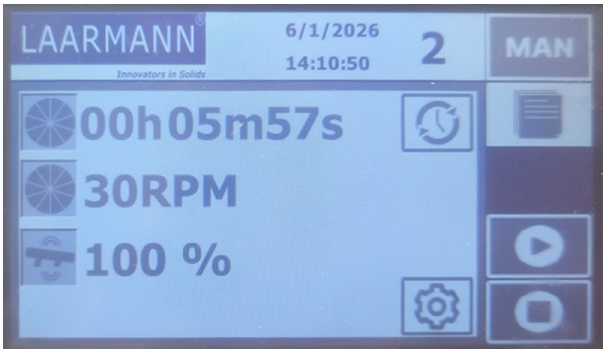


Mini sample divider view of divider and vibrating chute

Intelligent Control and Flexible Operation

The Mini Sample Divider is equipped with a modern touchscreen HMI featuring direct PLC communication for intuitive operation and precise process control. Users can easily adjust rotation speed and vibration frequency to suit different sample types and material characteristics.

The vibrating chute ensures a controlled and uniform material flow, while adjustable speeds from 18 to 53 rpm provide flexibility for a wide range of applications. Available for both 110–120 V and 220–240 V power supplies and compliant with CE standards, the Mini Sample Divider is ready for laboratories worldwide.



Mini sample divider contorl panel

Applications

The LAARMANN® Mini Sample Divider splits bulk powder and granular samples into smaller, statistically representative portions using a rotating distribution head. This ensures consistent particle size distribution across all sub-samples, minimizing segregation errors common in manual splitting methods.

It is particularly suited for laboratories handling small sample volumes that require fast, repeatable division with minimal operator influence. Examples of application materials:

- Ores and minerals
- Soil and sediment samples
- Cement and clinker
- Fertilizers and granular chemicals
- Food powders and grains

Technical specifications

Applications	sampling, sample division, sample reduction
Applications fields	Agriculture | Biology | Chemistry / Plastics | Construction Materials | Engineering / Electronics | Environment / Recycling | Geology / Metallurgy | Glass / Ceramics | Medicine / Pharmaceuticals | Mining and Mineral Processing | Cement and Building Materials Industry | Food and Feed Production | Pharmaceuticals | Environmental Labs (e.g. Soil and Waste Analysis)
Working principle	The mini sample divider evenly distributes material through a rotating feeder into multiple collection reagent tubes, ensuring a representative sample.
Maximum feed size*	≤ 2.5 mm
	≤ 160 ml
Throughput	≤ 160 ml per batch
Speed setting	18-53 rpm
Number of divisions	6 - 8 - 10 reagent tubes
Collector Volume	16 ml / tube
Hopper volume	150 ml
Sample volume	16 ml
Material transport method	Vibrating chute
Product-contact parts	Stainless steel / Aluminum. Other materials on request
Setting adjustment method	Touchscreen-HMI with direct PLC-communication
Setting options	Rotation speed, vibration frequency
Fuses	10 A glass fuse
Noise emission	65–72 dB(A)
Electrical requirements	400 Watt
Power supply	110-120V or 220-240V, 50/60 Hz
Power connection	1 phase
Standard	CE
Protection code	IP54
Weight	15kg
Dimensions (width x length x height)	300 x 500 x 400 mm

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