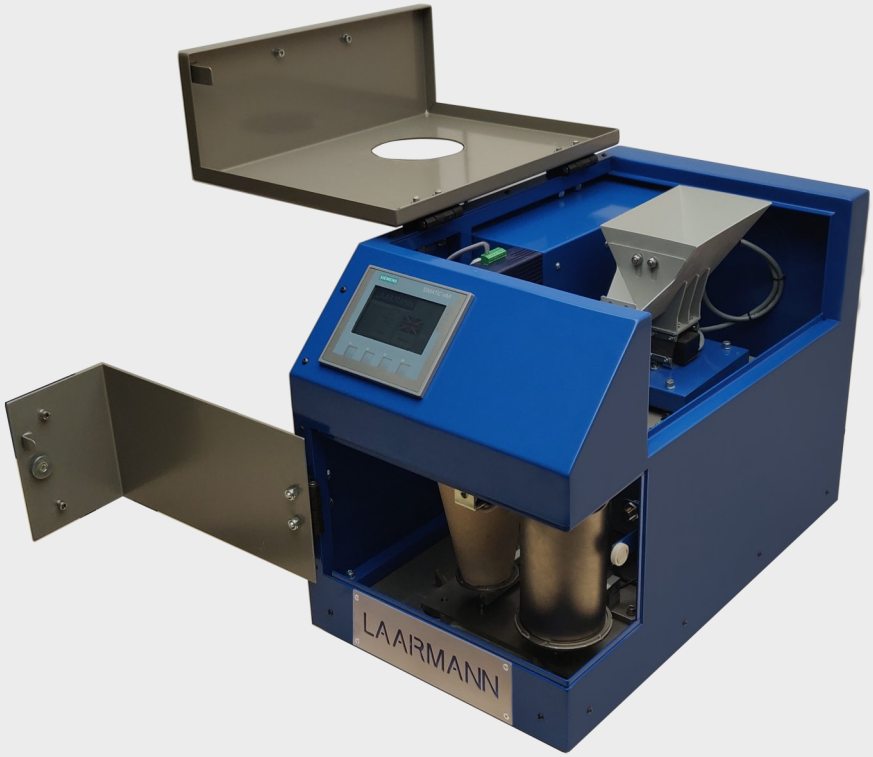
LAARMANN®

Innovators in Solids

MICRO SAMPLE DIVIDER

Weight based sampling

small laboratory and process machine suitable for taking a small representative sample.



- Fully automatic weight based laboratory sampler
- Quantity of increments (>40)
- Sample related can be adjusted and stored by the touch screen
- Control the product flow by combining the vibration frequency and the flow-triangle

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LAARMANN Micro sample divider for the most accurate sampling

The Mini Sampler is a small laboratory and process machine suitable for taking a small representative sample. The scales are set to detect up to a hundreds of a gram.

The machine is made for getting the small final sample before fire assaying. Parameters such as amount of increments and required sample weight can be set according to specific processes. The housing of the mini sampler is made of steel plate with high resistant painting.

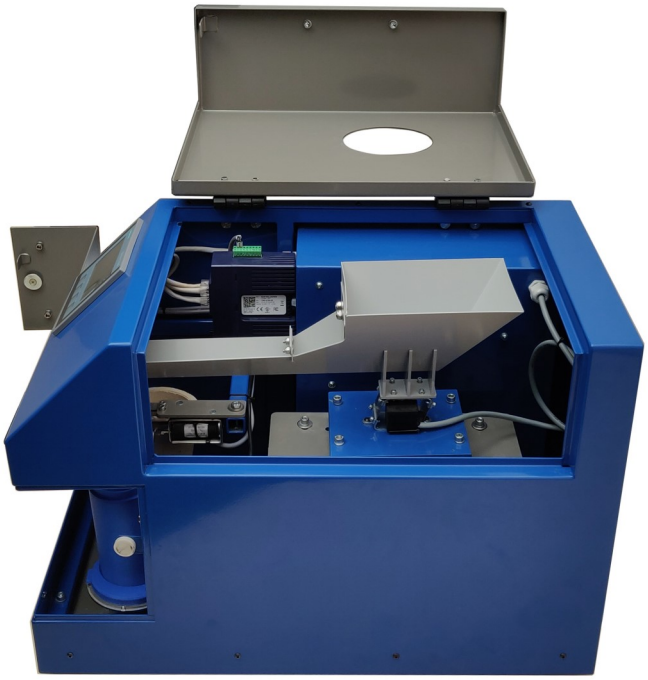
The weighing module is enclosed by a strong covering hood and the vibratory feeder is covered by the side hood. In the side hood there is a hole for feeding the machine. The mini sampler stands on flexible vibration absorbing rubbers.

Method of sampling

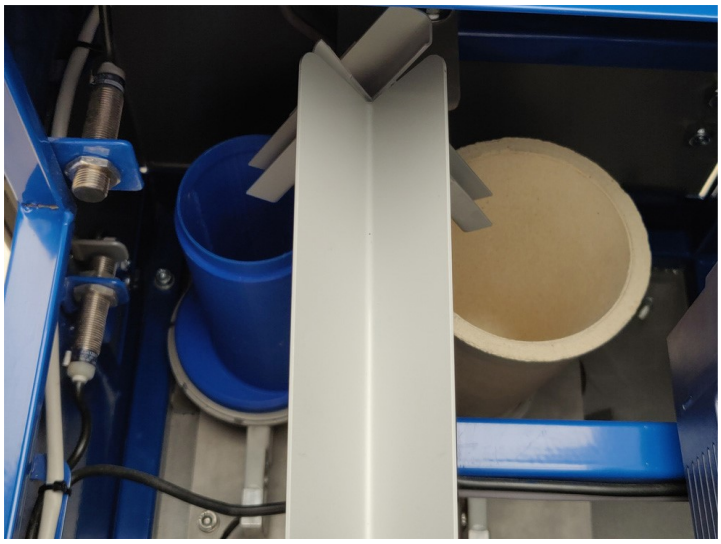
Analytical instruments have now achieved a level of accuracy inconceivable years ago. Many analytical methods require small sample quantities, and the precision of the analysis is greatly affected by the accuracy of the preparation of a representative sample of the material to be tested.

Representative sample division is therefore a basic precondition for precision in particle size analysis, particle sizing, chemical analysis, milling, spectroscopic analysis, trace element analysis and similar applications.

The micro sample divider is maintenance free. When used and cleaned properly, no maintenance is necessary.



Micro sample divider inner view



Feeder flow with sample and reject pots

Receiver pot

Features and benefits

- 3 modules in one machine enables continuous sampling and “batch-processing”
- The individual sample volumes are avaible.
- All parts which are in contact with the sample are made of stainless steel or other contamination free material
- Ergonomic and flexible
- Sample related can be adjusted and stored by the touch screen
- Control the product flow by combining the vibration frequency and the flow-triangle
- Custom parameters such as desired sample weight, sample amount and vibration feeder speed

APPLICATIONS

- Floors
- Wood fibres
- Plant Materials
- Seeds
- Tobacco
- Betonite
- Concrete
- Gypsum
- Sand
- Stone
- Cement clinker
- Hair
- Bones
- Tissue
- Carbon fibres
- Paints and lacquers
- Catalysts
- Plastics
- Pigments
- Polymers
- Cellulose
- Glass
- Hydroxylapatite
- Kaolin
- Ceramic oxides
- Quarz
- Clay minerals
- Ores
- Semi-precious stones
- Cole
- Coke
- Alloys
- Metal oxides
- Quarz
- Slags
- Electronic scrap
- Sludges
- Organic and unorganic waste

TECHNICAL DATA

Power supply	230V ± 10 – 50Hz
Maximum volume of inlet funnel	About 400 gram of material
Weight	Approximately 80 kgs
Dimensions (LxWxH)	600 x 350 x 400mm
Ambient temperature	5°C – 40°C
Atmospheric humidity	Less then 85 % RH