QAZ SERVICE i-GROUP

LAARMANN®

Multi Purpose Sample Divider

For the representative dividing of bulk samples from 2-1600 Litres

- 3 Modules in one machine
  - Module 1: Continuous process
  - Module 2: Bucket module
  - Module 3: Bottle module
- Ergonomic operation
- Hydraulic scissors lift
- Electromagnetic vibratory feeder

LAARMANN
Multi Purpose Sample Divider

Rotary Sample Divider for the accurate division of bulk laboratory samples

The new **Laarmann Rotary Sample Divider combines 3 modules** in one machine

Module 1: Continuous module using a vibratory feeder and a sample cutter with an outlet to take one or more representative samples and to collect the reject

Module 2: Bucket module using a vibratory feeder and a set of sample buckets to divide the total granular sample amount into 4,6,8,10 or more individual samples

Module 3: Bottle module using a vibratory feeder and a set of sample bottles to divide the total powder sample amount into 4,6,8,10 or more individual samples

Working Principle

The feed sample is fed at a controlled rate as a falling stream that is divided either into one part or into equal segments by the action of a "circle" of segmental buckets being rotated beneath the stream.

The unit operates in accordance with internationally recognised sampling protocols.

Type RSD-R

60 Litres hopper with lock

Control box, digital programmable vibratory feeder and bucket rotation

Hydraulic pallet truck

Outlet for continuous operation

Type RSD-2

Buckets

3 in 1

1

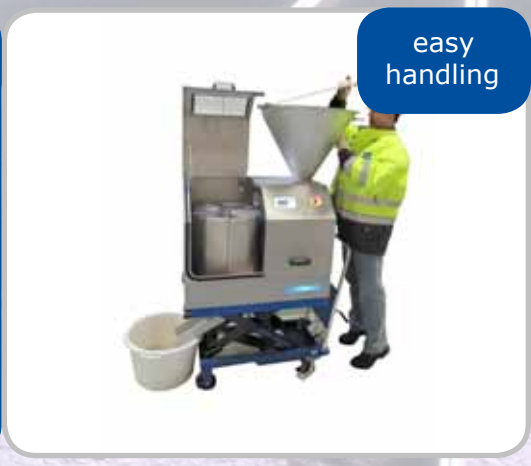
continuous

2

Bottles

3

Rotary Sample Divers are available in several sizes



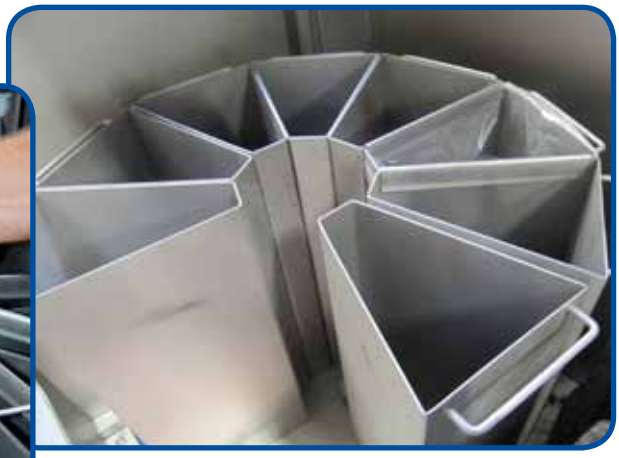
The hydraulic scissors lift ensures ergonomic handling in variable working heights

Features and benefits

- 3 modules in one machine enables continuous sampling and „batch-processing"
- Due to a range of various bucket sizes the sampling of different volumes is possible (no additional machine necessary)
- The individual sample volumes are variable. This can be achieved due to a wide range of available segment sizes.
- Choice of sample container types and materials:
  - Steel buckets
  - Bottles
- All parts which are in contact with the sample are made of stainless steel
- Electromagnetic adjustable vibratory feeder
- Ergonomic and flexible handling in variable working heights due to mobile hydraulic pallet truck

Vibratory feeder with push fit chute for easy cleaning

Control box



The **rotary table** can be rotated manually in order to move each bucket to the desired position

Handling

A wide range of accessories is available in order to simplify the handling

Module 1

System for continuous sampling

Big Bag Sampling

Complete sampling of a Big Bag

Laarmann Rotary Sample Dividers (up to 1600 Litres Volume) are an integral part of our big bag sampling solutions.
The **representative sampling** of bulk materials is always a critical challenge. Especially when the sample has been transported for some distance (big bag) there is definitely segregation in the content and the chance of impurities is high. Experience shows that the bigger particles will be on top and the smaller particles will be at the bottom (brazil nut effect). To get away from hanging 1 ton of material in a crane, using a knife to open the big bag, it's preferable to have a more controllable method. Besides the work, hanging a big bag in a crane is also a **dangerous situation**; ripping the ropes is a potential risk.

8x200 Litres divider module

This modules allows the batchwise dividing of material into 8 x 200 litres fractions from a total lump volume of 1600 litres.

In order to operate the system at different locations each divider module can be mounted on a trailer or truck (see example 8x200 Litres divider module).

Bulk Sampling

Sample diving of every flowable material can be done very easy with this solution.

Container for 1600 L with integrated spike for opening of bags

8x200 L barrels on a rotating platform in a safety cage

Big bags and other bags could be opened with the integrated spike.

The feeding of the material is controlled by a slider and the speed of the conveyor belt.

Via the digital control box you have the maximum flexibility to programm the rotation speed of the barrels as well as the speed of the conveyor belt. Further more security switches and emergency ensure the secure operation in every second.

Dividing of 1600 L Material into 8x200L barrels

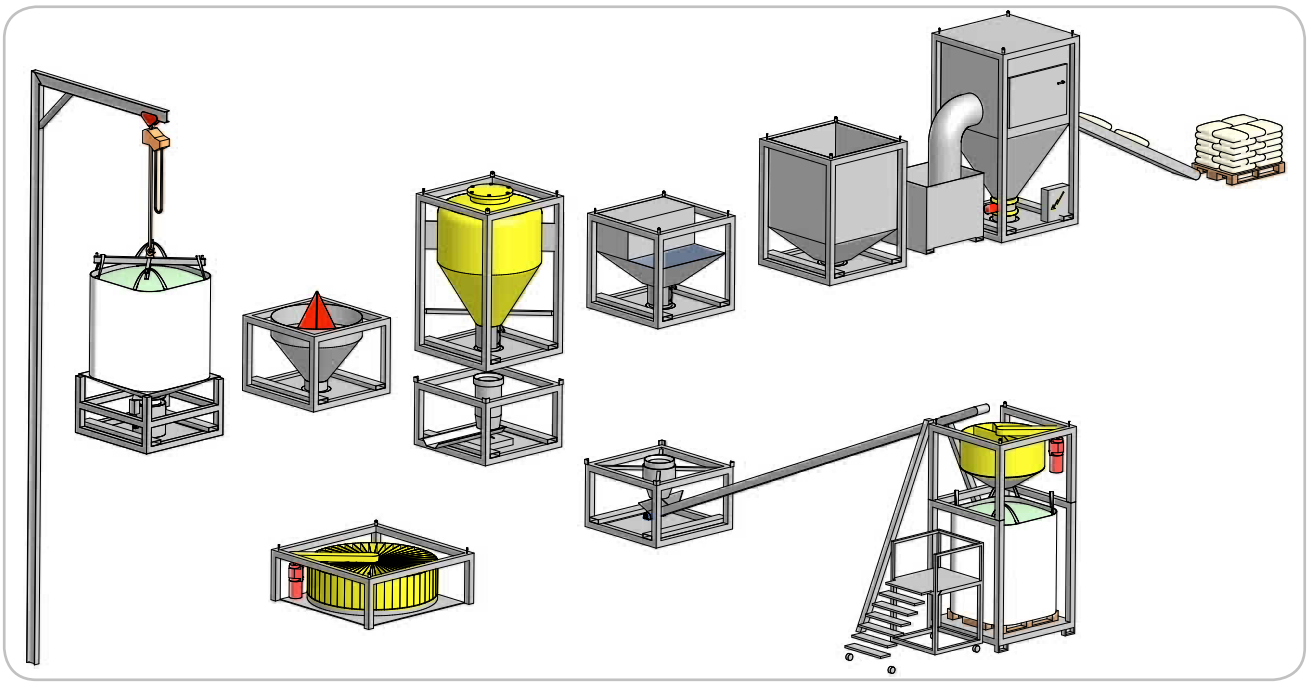
Making industrial sampling a breeze

LAARMANN ENGINEERING

The LAARMANN products could be easly combined or set up in different constellations. The big bag sampling solution as well as the bulk sample dividing solution could be set up according to your need and give you the flexibility to choose between sampling or simple sample dividing.
If you need further automations to sample preparation we are happy to get your requests.

Easy modification to switch from sampling to sample dividing

Different modules are available to open big bags, handle bulk, taking samples or automate sample dividing

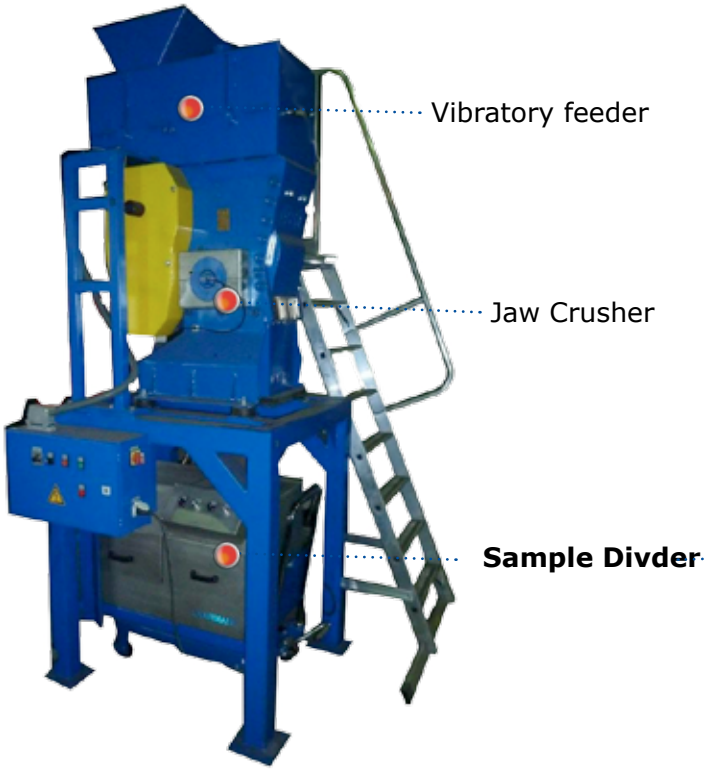


LAARMANN

Innovators in Solids

LAARMANN ENGINEERING

We design customized transport, crushing and sampling solutions. We combine our Laarman crushers and sample dividers as well as individual installations for your task.



Combo of Vibratory Feeder / Jaw Crusher/
Multi Purpose Diver

Combo of sample storage container /
Pre-Crusher / Jaw Crusher / Multi Purpose Divider

Applications

To select the most appropiate unit for your application we need to know:

- Sample Volume
- Number of individual samples
- Percentage/s to be captured
- Total amount to be divided
- Maximum feed size
- Physical characteristics

If you require more information please log-on to:

www.laarmann.info/contact

Details Rotary Sample Divider

Technical Data	
Sample volume	2 - 1600 Litres
Weight	Depending on version
Number of segments	1-20 depending on version
Modules	Module 1: Continuous usage Module 2: Batch processing segments Module 3: Batch processing bottles
Rotation speed	Electr. adjustable
Vibratory feeder	Electrom. adjustable
Dust extraction	Connection to standard dust extraction system available

LAARMANN

Innovators in Solids

QAZSERVICE i-Group

Телефон: +7 7172 57 00 22
+7 7172 57 00 20
Эл.почта: info@qsig.kz
Сайт: qsig.kz