

Modular Batch Sampling Solution – MBSS

Engineered and tailor Sampling Modules designed for rapid and reproducible sampling processes

In any industry there is a difficulty in taking a representative sample. Last decennia there has been lots of investments done in sample preparation equipment for laboratories, where sampling equipment should have more attention. Anyone understands when the sample has been taken in the wrong way,

what's the use of expensive sample preparation equipment? Most of the quality managers know about the complexity of representative sampling, but have no or limited access to this information, or even better a technical pragmatic solution. The LAARMANN GROUP is an expert in

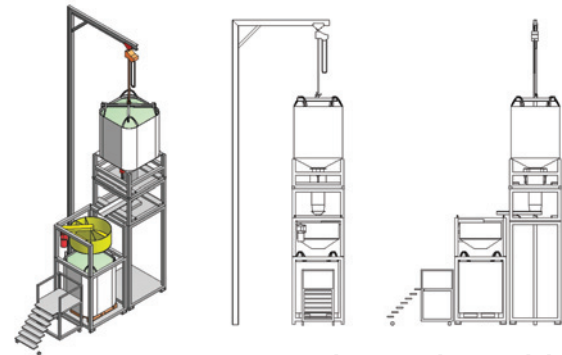
practical solutions to eliminate all human errors and deviations in wrong samplers. From this moment, the quality manager can choose from several solutions in sampling equipment which have been installed in many industries.

Case description:

BIG BAG sampling PROBLEM

Big bag sampling: Sampling a big bag is difficult. Especially when the big bag has travelled some distance, there will be definitely segregation in the content. Therefore it's not correct to open the top of the big bag

taking a spoon of material; the experience will tell that the bigger particles will be on top and the smaller particles will be at the bottom of the big bag. Doing a quality check is for a laboratory a difficult task.



Big bag sampling Module



LAARMANN SOLUTION: Drawing/pictures Eramet.

Module No.1: Big Bag sampling Module sampling a complete big bag

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.

Module No.2: 8x200 Litres Divider Module transportable

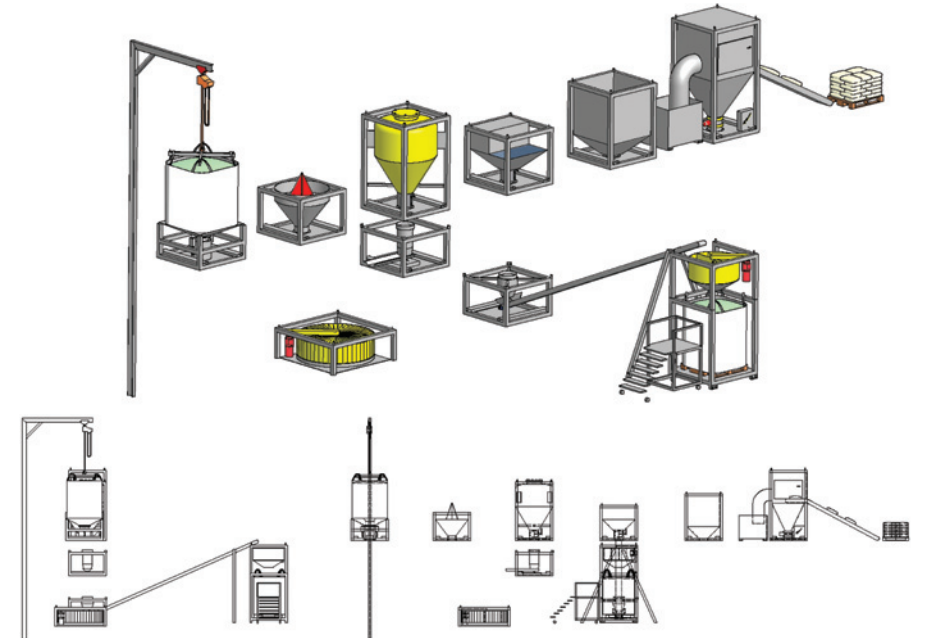
CONTAINER sampling PROBLEM:

Even at pharmaceutical companies, a container sample is essential; it the batch ready proceed to the next step? Opening the manhole from the container is a difficult activity; the operator can fall down. When opening the manhole cover, the operator's face is only 500-600mm separated from the content of the container. In the pharmaceutical industry this is not a preferable situation.



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Overview about MBSS Sampling Modules for all tasks

LAARMANN SOLUTION: Drawing container to container with RSDR

Sack sampling PROBLEM:

The most difficult sampling problem is a pallet of 20kg bags; when a product is purchased from some supplier, the chance of impurity will be highest at the bottom, right on the pallet; these bags come out after a batch change and might be contaminated with the bag coming out from the batch before. Most companies sample the bag

which is on top of the purchased amount; probably with the correct characteristics. After using the complete amount in a reactor, it might come out that the contaminated bag at the bottom is disastrous for the end product costing a lot of effort and money.