



Multichannel Sample Divider

Model 16:1

USER MANUAL

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Introduction

The Gehaka's multichannel divider modelo 16:1 is used to obtain reduced and representative work samples of the lot of grains or seeds under analysis.

The operation of the sample divider model 16:1 is totally independent of the operator and is based on the superposition of three, four or five simple cascade-shaped blocks, providing great precision and transparency in obtaining the work sample.



Multichannel Splitters 16/1 (4 cascade splitters)

The grains or seeds from the sampling of the loads, are deposited in the equipment's hopper and through the opening of a guillotine they fall on the blocks by gravity, dividing into work sample and discard.

In general it is possible to obtain a reduction of the original sample size, according to the table below:

Model of Multi -Channel Splitter	Sample (percentage of the original sample)	Discard (percentage of the original sample)
16/1	3,5% (*)	96,5% (*)

The entire sampling process takes less than 15 seconds. The product, already splitted, falls into two collecting units (sample and discard).

(*) The mentioned ratio is probabilistically true for soybean and corn. Grains of larger or smaller size may have a slightly different ratio.

(*) The percentages presented above may undergo minor changes, according to the methodology of use.

Application

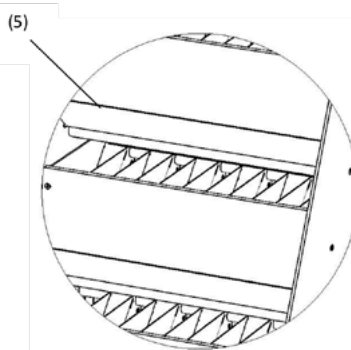
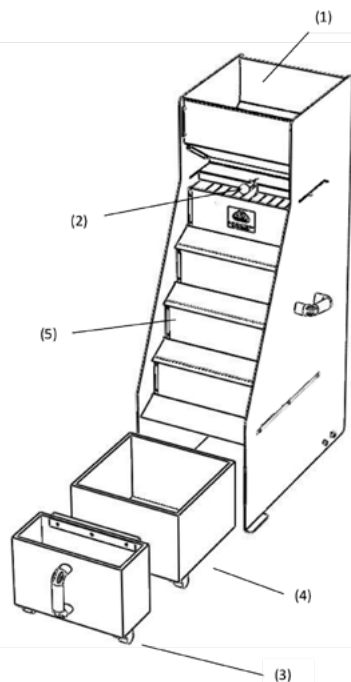
Multi -Channel Splitters are recommended for use in the receiving process, grain dispatch or any other situation where it is necessary to obtain samples suitable for classification and that are representative of the batch to be analyzed.

Description

1. Load Hopper: Container of grains to be splitted. The tank capacity is 15 kg or 18 liters, depends of the grain or seed type..
2. Guillotine actuating knob: Useful to start the sample reduction process.

Attention: It is recommended that, for the proper operation of the equipment, the guillotine is always be closed after each sample passage. It is crucial for the proper functioning of the splitting process that all the product is deposited in the hopper tank and leveled before the guillotine opens.

3. Sample drawer: Splitted and reduced sample deposit.
4. Discard drawer: Deposit of the quantity to be disregarded in the reduction of the initial sample.
5. Viewing /Cleaning Flaps: Useful for visual inspections of the splitters (verification of impurity or jamming in some of the channels). To access the splitting in the compartment, simply lift the flap, according to the image aside.



Installation

Multichannel divider can be installed on benches, attached to pneumatic wedgers, on supports (for easy handling) or even on the floor. It is recommended that this base is always of flat surface and without imperfections, since the conditions of the environment can disrupt the good functioning of the equipment.

The leveling of the base of the device, whatever it may be, is essential so that the splitting and reduction of the sample happen within the pre-established tolerance.

Operation

1. Discharge the grain sample which will be reduced, maintaining an even distribution of the grains throughout the hopper.

This distribution is crucial so that all channels are used in the splitting process, ensuring the perfect reduction of the sample and, consequently, its representativeness.

Note: The maximum capacity of the tank is 15 kg or 18 liters, depends of the grain or seed type.

It is important to observe an even distribution of the grains throughout the hopper. This distribution is crucial so that all channels are used in the splitting process, ensuring the perfect reduction of the sample and, consequently, its representativeness.

2. Pull the actuating knob, opening the guillotine and allowing the sample to be splitted.

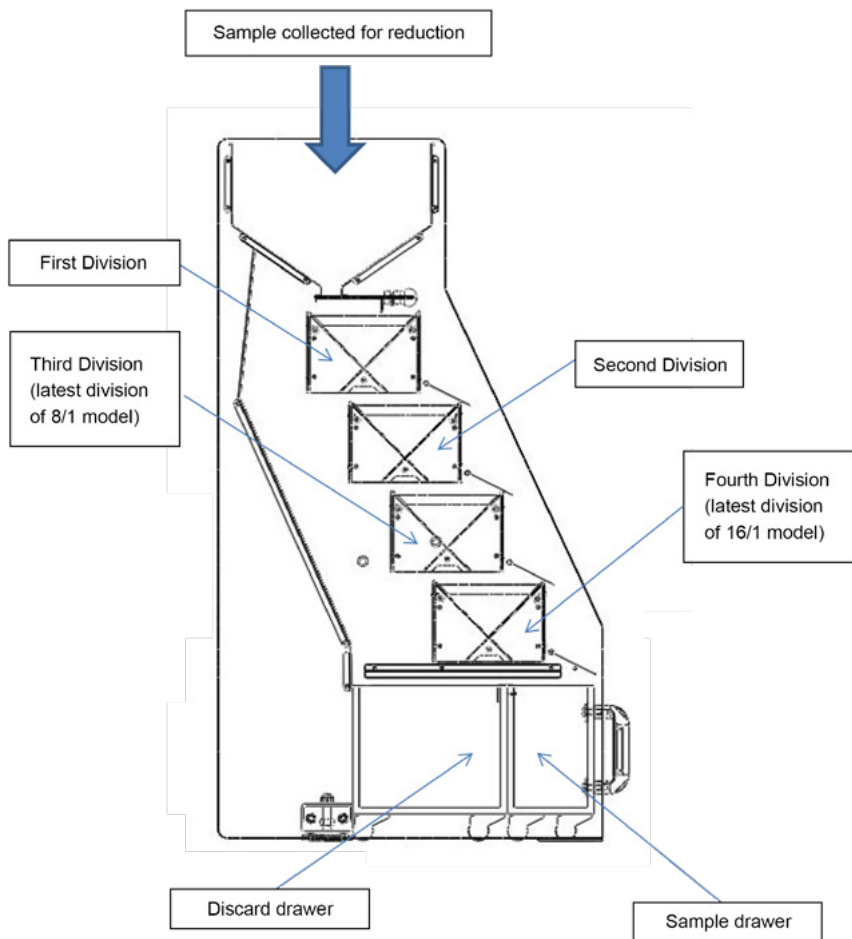
3. After the process is complete, pull the sample drawer to obtain the reduced sample. The discard drawer with the rest of the initial sample should be disregarded.

In case of further reduction, the contents of the working sample drawer can be discharged again in the hopper, or in any of the splitters, through the optional MULTIX.

Once this has been done, the sample shall be reduced again respecting the ratio indicated above. This operation can be performed as many times as necessary until the ideal work sample is achieved.

If the obtained work sample is very small, a new classification can be carried out with the product obtained in the discard drawer. It can be deposited in the equipment tank or in one of the splitters through the optional MULTIX.

Operating scheme



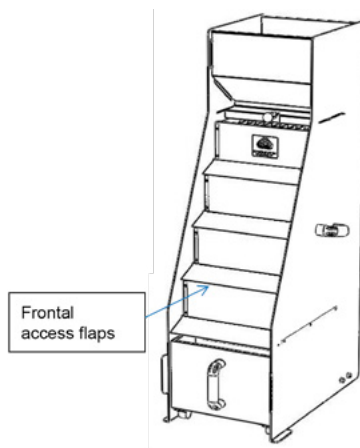
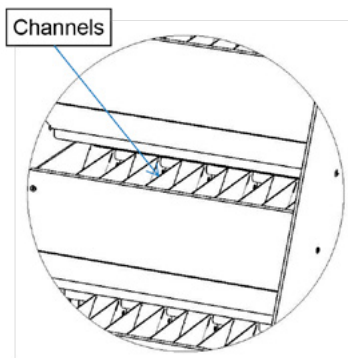
Cleaning

Routine maintenance shall primarily consist of cleaning the Gehaka Multi-Channel Splitter, keeping it free of dust, especially in the internal splitter channels.

With the use of the device, the channels tend to accumulate waste, especially when the grains are dry and with impurities.

It is recommended that the operator periodically observes the channels by lifting the front access flaps. In case of impurities, never use compressed air.

Always use the circular soft bristle brush supplied with the device. This brush allows full access to all channels, efficiently cleaning and ensuring that the channels are not damaged or scratched.

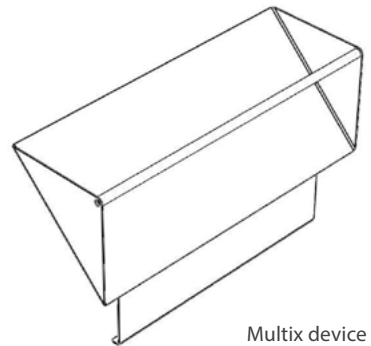


Technical specifications

Maximum quantity of the sample:	15 kg or 18 liters, depends of the grain or seed type.
Material:	Stainless steel, aluminum with electrostatic painting finish. Wooden drawers.
Weight:	Net 7k g - 16/1 Model
Dimensions:	16/1 Model Height = 110cm Width = 45cm Depth = 65cm

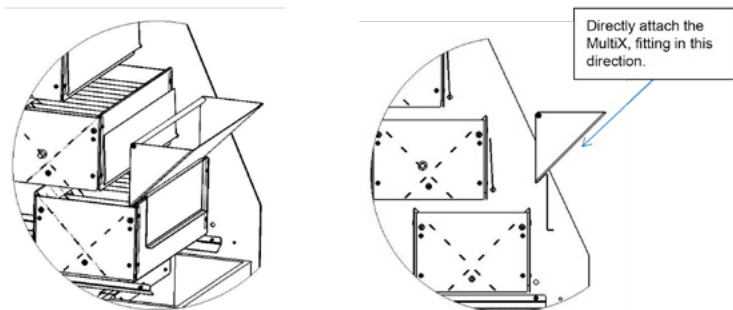
Optional: Multix Device

Optional device made of stainless steel with a resistant structure to be attached to the lower divisors of the Multi-Channel Splitters, in order to carry out one or more splitting operations, allowing the obtaining of work samples within the desired weight.



1. Operation

The MultiX device can be directly attached to any of the Multi-Channel Splitter modules, according to the drawing below:



Warranty

The information contained in this manual is considered correct until the date of its publication and is included in the sale invoice of the product.

Gehaka excludes any liability claims whatsoever which may arise resulting from incorrect use of the product, nor is it responsible for failure to observe the information contained in this manual, and the company reserves the right to change it without prior notice.

Gehaka is not liable, directly or indirectly, for accidents, damages, losses or gains, good or bad results of analysis, processing, purchase or sale of goods based on this instrument.

The devices sold are warranted against defects caused by defective materials or workmanship, for a period of one year from the date of manufacture or sale.

Gehaka's liability, within the limits of this warranty, is limited to repair, replacement or optional credit posting of any of its products that are returned by the user / purchaser, during the warranty period.

This warranty does not cover damage or malfunction caused by fire, accident, alteration, negligence, misuse, repair or maintenance without the manufacturer's permission, or by negligence, malpractice and reckless use.

Gehaka shall not be responsible, expressed or implied, except for what it has been established herein.

Gehaka does not guarantee the continuity of the product commercialization or suitability for any particular use.

Gehaka's liability shall be limited to the unit price of sale, declared on the invoice or price list of any defective merchandise and shall not include compensation for material and / or moral damages, loss of profits or any other damage resulting from the use of the equipment other than those previously provided for above.

The validity of the warranty of this product is one year, based on the date of issuance of the Invoice. However, the paintwork warranty of the product is thirty days from the date of issuance of the invoice.

The product that needs technical assistance during the warranty period shall have the freight for the shipment of the product to Gehaka and for its return at the customer's expense.

Sellers or representatives of Gehaka are not authorized to offer any additional warranty to the one that was explicitly foreseen in this Manual.

TECHNOLOGY AT THE CUSTOMER'S SERVICE

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