Datasheet

MID Micro Ingredient Dosing

Process

The Van Aarsen MID is designed to dose and weigh small quantities of ingredients which are suitable for a wide range of products used in the animal feed milling industry. These ingredients all have different bulk densities and flowing characteristics.

The Van Aarsen ingredient dosing weigher range consists of 3 types:
1) Small Ingredient Dosing system, SID (max. 200 kg),
2) Micro Ingredient Dosing system, MID (max. 50 kg)
3) Precision Ingredient Dosing system, PID (max. 1 kg).



Benefits and features

High effectiveness

- Large dosing and weighing range, from 20 to 50 kg
- Very accurate dosing with V-shaped slide openings operating in sequence for fine and coarse dosing
- Short dosing time
- First-in first-out principle
- Two butterfly valves under the hopper
- Pneumatic beater on the weighing hopper
- Stirring device in the product hopper(s) (option)

Energy efficiency

- Total installed power only 1.2 kW

Low maintenance costs

- Due to the application of self-lubricating plastic frames around the moving parts, the machine operates smoothly with a minimum of wear
- Very low maintenance due to minimum of moving parts

Easy and safe operation

- All moving parts are shielded for the safety of operating personnel
- Good accessibility to the weighing hopper

High feed quality

- Parts in contact with product made of stainless steel
- Dosing by means of slides resulting in gentle product handling and no product damage
- Minimum contamination of product
- Built completely according to the latest regulations and standards for homogeneity, hygiene and safety

Flexibility

- Wide dosing and weighing capacity range
- Integrated PID (optional)
- Silos on top of the dosing unit (optional)
- The MID has a weighing and dosing range from 20 to 50 kg and an accuracy of 10-20 gram, depending on the type of machine

High automation level

- In case of a power breakdown, the dosing slides will automatically return to a closed position thus avoiding loss of product
- Integrated electrical control panel with reusable data
- Accurate monitoring of dosing slide position
- Operating in ‘slave function’ to the feedmill automation

Design

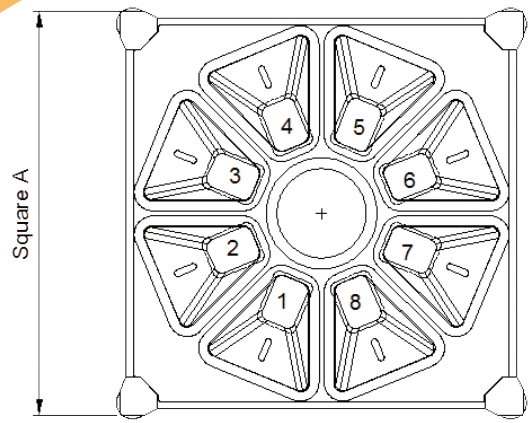
- Compact design
- Durable construction
- Product hoppers integrated in design
- Silos on top of the dosing unit (option)
- Stirring device in the product hopper (option)

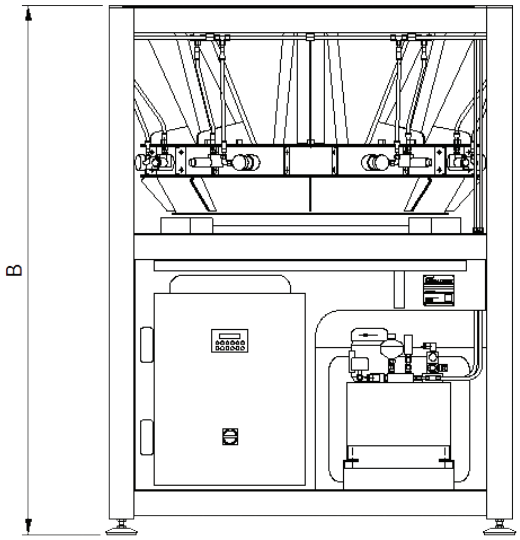


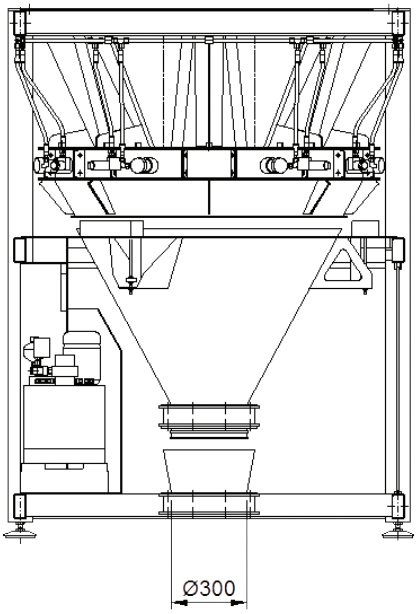


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Datasheet







Dimensions	A=1600 mm B=2100 mm		
Product silos	8		
Volume weighing hopper	0.2 m^3 (gross volume)		
Discharge outlet	300 mm		
Maximum batch weight	Smallest component:	Read out:	Weight accuracy: *
20 kg	500 g	10 g	10 g
50 kg	1000 g	20 g	17 g
Mechanical dosing accuracy **	5 g		
Load cell accuracy	0.02%		

* Weight accuracy (system) describes the maximum deviation of the weight indication from the real value of the weight.
** Mechanical dosing accuracy describes the maximum feasible accuracy done by the dosing slides.

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