Datasheet

SID Small Ingredient Dosing

Process

The Van Aarsen SID 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 flow 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 75 to 200 kg
- Very accurate dosing with 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
- Silos on top of the dosing unit (option)
- The SID has a weighing and dosing range from 75-200 kg and an accuracy of 20-50 gram, dependent on machine type.
- Vitamins, minerals and additives can be dosed with high accuracy for premix/concentrate production or direct mixing into finished feed.

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

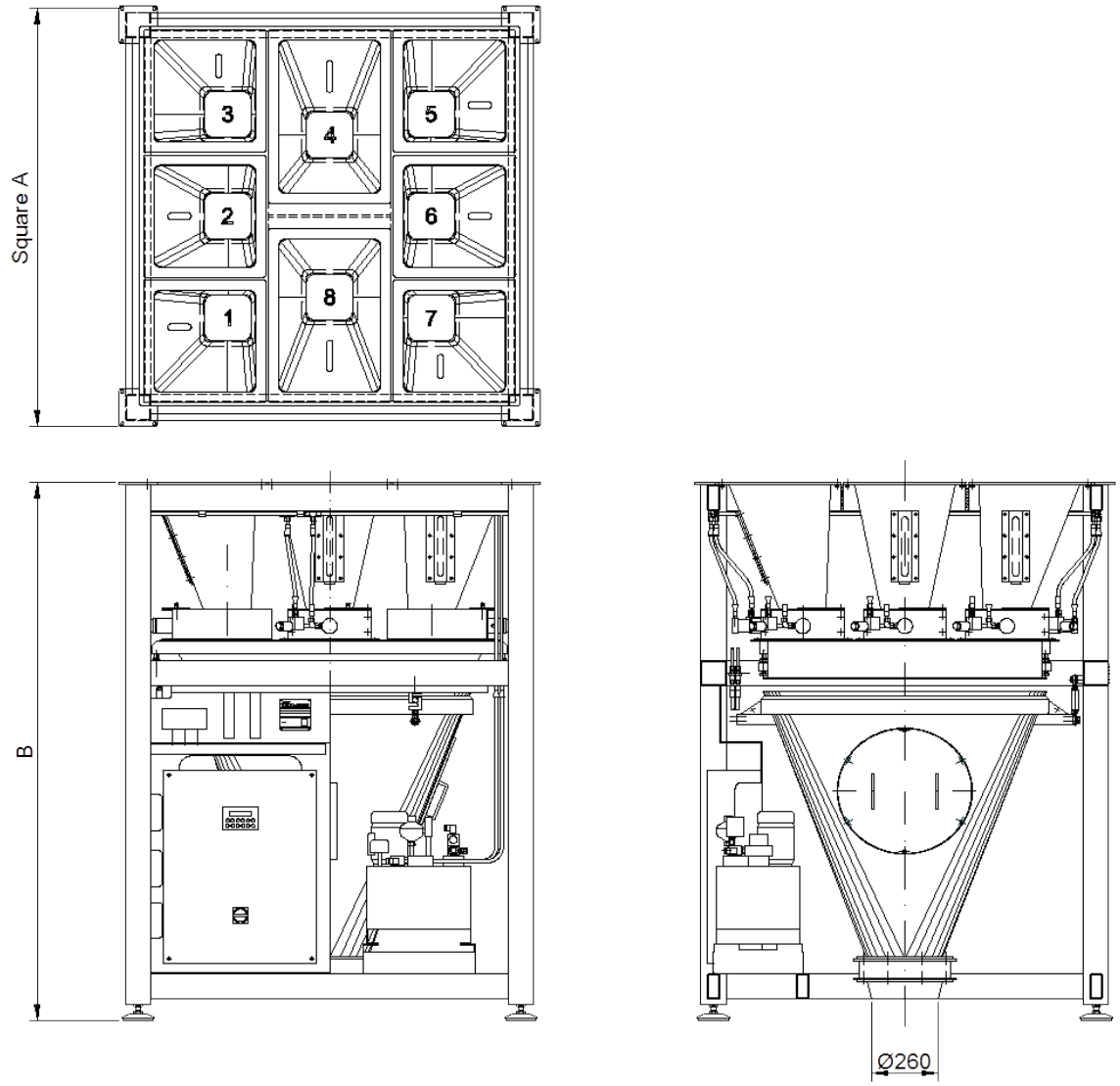
- Compact design
- Durable construction
- Product hoppers integrated in design
- Silos on top of the dosing unit (option)
- Stirring device in the product hopper (option)





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Dimensions	A=1600 mm B=2100 mm		
Product silos	8		
Volume weighing hopper	0.5 m^3 (gross volume)		
Discharge outlet	300 mm		
Maximum batch weight	Smallest component:	Read out:	Weight accuracy: *
75 kg	1500 g	20 g	35 g
100 kg	2000 g	20 g	35 g
200 kg	4000 g	50 g	52 g
Mechanical dosing accuracy **	10 g		
Load cell accuracy	0.04%		

* 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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