

FCD Flexible Component Dosing System

The ALFRA FCD doses raw materials, like dry powders, granulates and pellets, using an innovative 'weigher-in-weigher' system for extremely accurate dosing of quantities ranging from 20 g to 100 kg. It uses ALFRA Dosing Slides and the ALFRA dose&weigh controller.



The ALFRA FCD Flexible Component Dosing System uses a dosing plateau with ALFRA Dosing Slides. Therefore it very accurately doses large and small quantities.

Weigher-in-weigher system

The weigher-in-weigher system incorporates two weighing hoppers for a very wide dosing range. Large quantities are being dosed directly into the 100 kg weigher. Small quantities are initially being dosed into a 5 kg weigher after which this is being emptied into the 100 kg weigher. This system reduces the number of silos required since large as well as small quantities can be dosed from the same silo.

Reduced risk of contamination

The combined weighing system is mounted on a moveable frame that enables it to be located under each dosing position and above the discharge position(s). This significantly reduces the risk of contamination.

Self-learning ALFRA dose&weigh software

The FCD uses ALFRA dose&weigh software that can increase the dosing performance by 20%. This program is self-learning to optimize the dosing performance without having to separately fine-tune individual parameters. This gives a more consistent production capacity because the influences of differing product characteristics are limited. It also reduces required operator interaction. The system has a user-friendly touch-screen control panel and information can standardly be duplicated in a central control room.

Dust extraction and easy to clean

To simplify cleaning, inspection and maintenance, the FCD has a special cleaning position for the weigher-in-weigher system. The FCD also features a dust extraction system to avoid dust residue in the weigher and for a cleaner workplace.

Why choose the FCD?

- Extremely accurate dosing from 20 g to 100 kg
- Reduced risk of contamination
- Flexible system thanks to moveable weigher
- High throughput with consistent results
- Self-learning, optimizing dosing control
- Minimal operator interaction

Specifications

| | |
|---------------------------|----------------------|
| Dosing range ¹ | 20 g to 100 kg |
| Weighing accuracy | +/- 1 g and +/- 20 g |
| Weighing capacity | 5 kg and 100 kg |
| Number of silos | 4 to 48 |

Applications

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|------------------|--|
| Feed and food | Compound feed, Premix Mineral, pet food, fish feed, milk replacers, food ingredients |
| Industrial | Building materials, rubber, industrial components, plastics, chemicals |
| Special products | (Grass) seeds, washing powder, grinding discs, gypsum, plaster |

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¹ Dosing range depends on required relative dosing accuracy.