

ALFRA FCCD ELIMINATE CROSS CONTAMINATION

CONTAINER-BASED DOSING FOR MICRO AND SMALL COMPONENTS



VERSATILE DOSING & WEIGHING WITH SPEED AND ACCURACY

EXTREMELY FLEXIBLE MANUFACTURING DUE TO “DOSINGTAINERS”

- Dosing container enables raw materials to be replaced without first having to empty a silo
- Change ingredients quickly for fast changeover times between products
- Compact machine virtually eliminates cross contamination and residues
- High throughput for micro- and small components like dry powders, granulates and pellets
- Dose any quantity from 20 grams to 100 kg quickly and accurately

Dose even small, regular quantities of materials efficiently

Our FCCD safely doses rarely used ingredients that can spoil if they remain in the silo for too long. It uses unique exchangeable “dosingtainers”, giving efficient and contamination-free dosing of even small quantities of materials. Ingredients from up to 24 dosingtainers can be combined automatically.

Combining high throughput with outstanding accuracy, the ALFRA FCCD features our unique dosing slide, which ensures that dosing and weighing is no longer the factory bottleneck. Uniquely, it eliminates labour-intensive and error-prone hand dosing – and the alternative of a separate machine for small amounts – by handling from 20 grams right up to 100 kg in a single machine.

Design features like an in-built dust extractor help ensure a clean workplace with minimum or even zero cross contamination. Cleaning, inspection and maintenance are all simple, and running costs are low.

Unique concept makes full use of enormous slide range

With two weighing scales in one hopper (Weigher-in-Weigher) we make full use of our pioneering dosing slide concept. Dosing large quantities directly into the large weigher – with smaller quantities first going into the small weigher – means high throughput combined with excellent accuracy. Now, the appropriate weigher is selected automatically, reducing the number of silos you need.

Smart software ensures maximum throughput

The embedded ALFRA dose&weigh software uses historical data to start the coarse dosing and then adjusts the fine product flow profile dynamically, achieving up to 20% more throughput – even for materials with varying flow characteristics. The improved accuracy saves raw materials, while batch times are shorter and more predictable. Now, materials dosing is no longer a process bottleneck!

INNOVATIVE CONTAINER-BASED DOSING

‘Dosingtainers’ for large numbers of ingredients

Companies using hand dosing – especially for large numbers of components – are taking an unacceptable risk.

To eliminate this, ALFRA has developed its unique FCCD system for cost-effective production of premix, animal feed and pet food products that contain a large number of raw materials. The FCCD uses dosing containers (called DOSINGTAINERS) rather than silos to limit the number of dosing positions. Dosingtainers have no drive mechanism, and the dosing slide and other equipment connect automatically when placed on the FCCD frame using a standard forklift truck. Dosing occurs directly from the container, which is registered automatically by the control system using RFID, so the raw materials are ready for production quickly.





Dosing & Weighing Technology

Specifications

Dosing range	20 g to 100 kg
Number of containers	4 to 24
Container volumes	Up to 1500 litres
Container capacity	Up to 1000 kg
Weighing capacity	5 kg and 100 kg (WiW)
Dosing accuracy	+/- 2 g and +/- 20 g
Available types	FCCDx and FCCDxy

Applications

Feed and food	Compound feed, minerals, premixes, pet food, aqua feed, milk substitutes, food ingredients
Industrial	Building materials, rubber, industrial components, plastics, chemicals
Special products	Seeds, washing powder, gypsum, plaster, raw materials for grinding discs, etc.

See also:

Datasheet	ALFRA FCD
Datasheet	ALFRA dose&weigh

KSE: what we do

KSE Process Technology is a family business that has grown steadily over the last 40 years to become a worldwide concern. We supply everything your factory needs to dose, weigh and transport your materials. Besides dosing and weighing systems themselves, we provide automation solutions and services for producers of powders, pellets and granulates for the animal feed and related industries.

The portfolio of KSE dosing and weighing solutions covers everything from micro up to macro components, with dose rates from 1 gram to above 6,000 kg. Next to this, KSE's future-proof PROMAS ST process control system completely automates animal feed and food industry factories. Remote support with on-line diagnostics and a 24-hour helpdesk are available to customers around the world.

Although many of our products are standard, all our systems can be optimized to your requirements with different options and modifications.

KSE Process Technology B.V.
Rondweg 27
5531 AJ BLADEL
The Netherlands

Tel. +31 (0)497 38 38 18
info@kse.nl

www.ALFRA.nl



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