

ALFRA Dosing & Weighing Technology

FCCD Flexible Container Component Dosing system

The ALFRA FCCD doses dry powders, granulates and pellets extremely accurate directly from containers into the weigher. Thanks to the ALFRA dosing slides, which are integrated in the ALFRA dosingtainers, the FCCD doses quick, accurate and reliable.



The ALFRA FCCD (Flexible Container Component Dosing system) with dosingtainers adds a new dimension to ingredients dosing. Now it is possible to dose ingredients directly from exchangeable containers, instead of from fixed silos, into the weigher. And with the ALFRA dosing slides under the dosingtainers, dosing is fast, accurate and reliable as well.

Maximum flexibility at minimum required space and minimum contamination risk

Dosing directly from a container is a unique innovation and has many benefits. Sometimes certain raw materials in the production are rarely used, so that it is inefficient to reserve fixed dosing silos for these, or they are processed in the recipes in such small quantities that the risk arises that they remain in the silo for too long. Furthermore, with fixed silos, product residue often creates contamination at product changeover. With the FCCD, you avoid this inefficient use of silos and increased contamination risk. The flexibility also increases by storage of the raw materials in dosingtainers. The raw materials can namely simply be replaced without having to empty a silo first. Thus with a limited machine size nevertheless a very wide recipe range can efficiently be produced.

Weigher-in-weigher system and accurate dosing slide

By using a system with two weighing hoppers, one for large quantities and another for small quantities, the FCCD has a very wide dosing range from a few grams to 100 kilograms. At the same time a very high dosing accuracy can be guaranteed by using the ALFRA dosing slide technology. The weigher-in-weigher system is mounted on a moveable frame, enabling it to be positioned under each dosingtainer. This means that large as well large as small quantities can be dosed from the same dosingtainer. The FCCD is executed with the ALFRA dose&weigh software that can increase dosing performances by as much as 20%.

Why choose the FCCD?

- Extremely high dosing accuracy
- Simply changing containers without product residue
- Reduced risk of contamination
- Limited height and floor space required
- Easily switching between recipes

Specifications

Dosing range ¹	20 g to 100 kg
Weighing accuracy	+/- 1 g and +/- 20 g
Max. weighing capacity	5 kg and 100 kg
Number of containers	4 to 24

Applications

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

ALFRA is a product of KSE Process Technology.

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¹ Dosing range depends on required relative dosing accuracy.