

Dosing & Weighing Technology



ALFRA GCD CLEAN PROFESSIONAL WORKHORSE

A DOSING SYSTEM FOR MEDIUM COMPONENTS



ALFRA Medium Component Dosing System (KSE)



Best Dosing, Filling and Packaging Solution

WEIGH DOSES QUICKLY AND ACCURATELY



PIONEERING DOSING SLIDE IMPROVES ON SCREW DRIVES

KSE's pioneering dosing slide makes fundamental improvements over traditional dosing systems using screw drives. It has few moving parts for easy maintenance and long life (>20 years). It delivers raw materials with greater speed and accuracy, and has an enormous dynamic flow range (1:1000 !!!).

The unique KSE dosing slide maintains the all-important First-In-First-Out material flow, eliminating dead zones in the silo. With its very large discharge area it is highly effective at avoiding bridging and rat holing. Vertical delivery means no product damage or compaction.



ACCURATELY

- Extremely robust with low maintenance and running costs, >20-year operational life
- High throughput for small components like dry powders, granulates and pellets
- Dose any quantity from 1 kg to 1000 kg quickly and accurately
- Closed design for clean workplace

Workhorse for medium component doses

Our ALFRA GCD dosing & weighing system with stationary weighing hopper is closed for low-dust operation. The system combines ingredients from up to 24 silos automatically.

Combining high throughput with excellent accuracy, the system features our unique dosing slide, which ensures that dosing and weighing is no longer the factory bottleneck. This workhorse machine is low cost yet has high performance. It handles from 1 kg up to 1000 kg in a single machine.

Self-learning software optimizes the flow profile for highest speed and precision (so saving on expensive raw materials). When the batch is complete, the correct weight is discharged onto a transport belt or into an under hopper or mixer positioned below the machine.

Materials are traceable through all the process stages. Cleaning, inspection and maintenance are all simple, and running costs are low.

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!

A PROFESSIONAL WORKHORSE FOR
MEDIUM COMPONENTS RANGING FROM
1 kg to 1000 kg





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Specifications

Dosing range	1 kg to 1000 kg
Number of silos	6 to 24
Weighing capacity	100, 200, 500 or 1000 kg
Dosing accuracy	+/- 40, 100, 200 or 400g

Applications

Feed and food	Compound feed, mineral 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 Dosing Slides
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.

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more about the ALFRA GCD