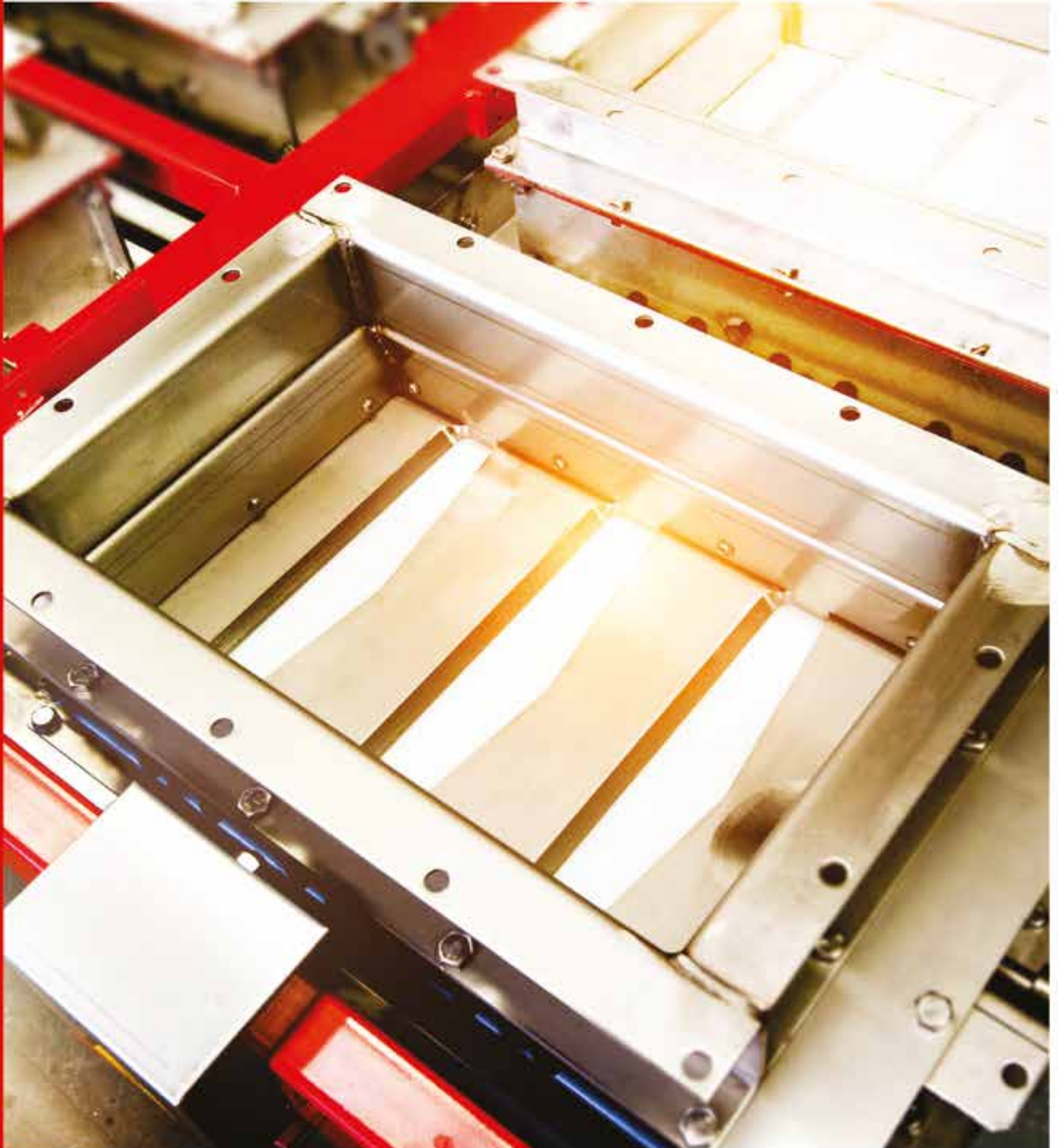


Dosing & Weighing Technology



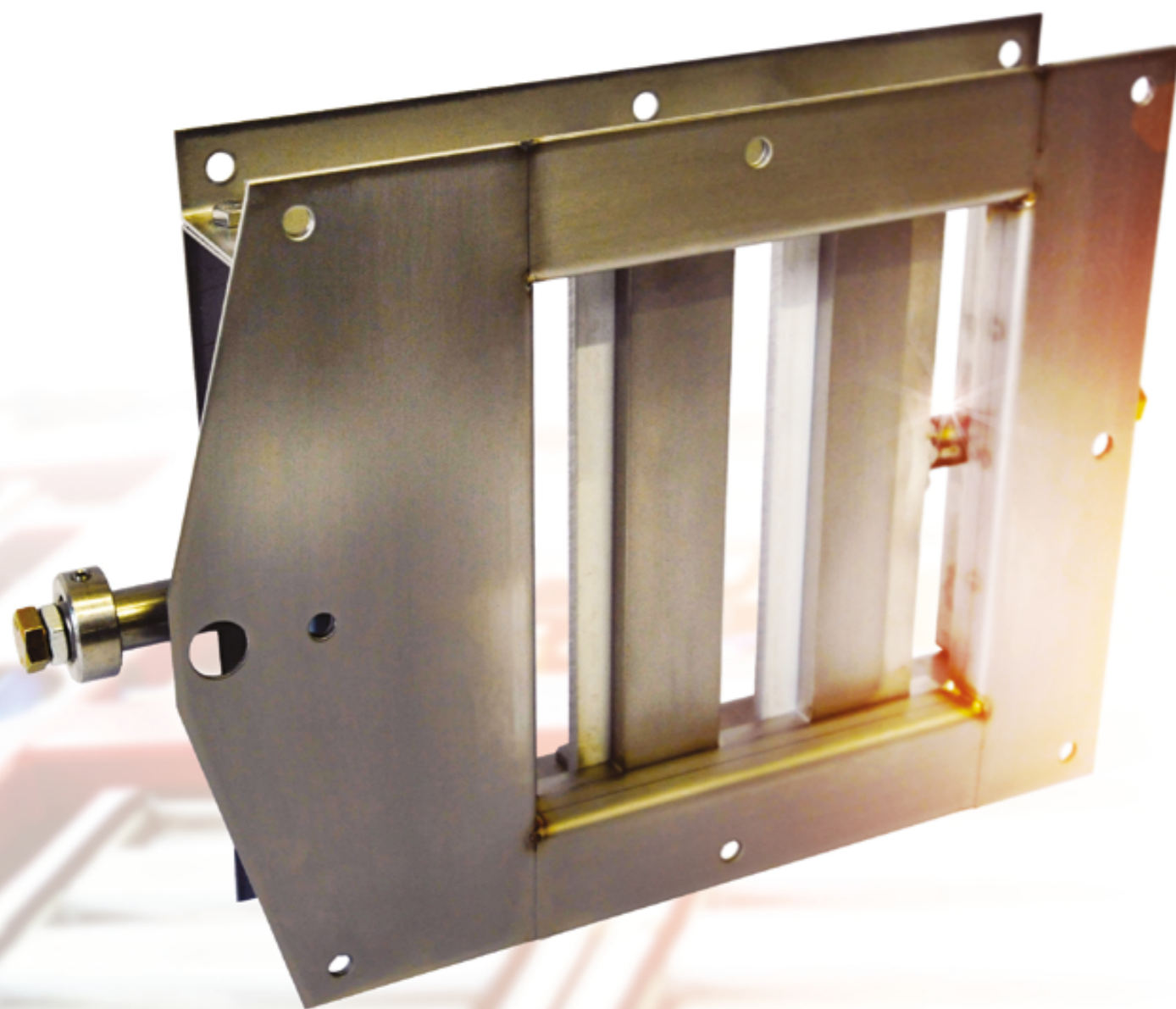
# ALFRA DS THE BEATING HEART

OUTSTANDING ACCURACY ACROSS HUGE DOSING RANGE



# FAST, ACCURATE SUPPLY TO ANY DOSING & WEIGHING MACHINE

- Fast and accurate dosing over a wide range of material flow characteristics
- Huge dosing range: from 0,5 gram/second to 277 kilogram/second
- Reduced product bridging, compaction and damage
- Large discharge surface for funnel height savings
- Very low energy costs
- Extremely robust with low maintenance and >20 year operational life



## Fast and accurate

KSE's pioneering grid dosing slide makes fundamental improvements over conventional dosing methods. It delivers raw materials with greater speed and accuracy (down to a few grams/second), and has an enormous dynamic flow range (1:1000).

The slide has few moving parts for easy maintenance and long operational life (>20 years). Multiple slides can be powered by a single electric motor and hydraulic system, which can save thousands of currencies per year on power consumption alone.

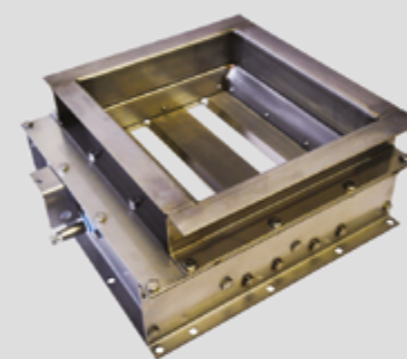
**1 : 1000**  
DYNAMIC FLOW RANGE

## Excellent material flow

The dosing slide has a reciprocating upper grid and a fixed lower grid for good material flow. There are no dead zones, so maintaining important First-In-First-Out order. Gravity supply and a large surface area means no product bridging, compaction or damage. Any number of slides can be combined into a plateau to be placed (for example) underneath a complete block of silos. The large discharge surface of the slides require less funnel height, resulting in less overall building height. That saves on expensive building space.

Product flow can be cut off at any time, with a constant and predictable after flow. The minimum dose of a screw system is determined by the volume between two blades, where for a dosing slide it is determined by the smallest possible opening. This is another benefit of the 1:1000 dynamic flow range.

Different versions are available, and slides can be quite easily adapted to the process and environment they are used in. Premix dosing slides can have a special seal to avoid leakage, with special (FDA approved) seals suiting fluidizing materials like milk powders or seeds. Slides can also be fitted with scrapers so that silos containing (for example) pet foods can be emptied 100 %. The slide chosen depends on the silo size, product properties, desired flow capacity and accuracy, and type of process.



## BROAD RANGE OF POSSIBILITIES

### Different slides with different capabilities

The dosing slide is used in KSE's complete range of ALFRA dosing and weighing machines. It is also available as a separate product. There are many standard slide sizes from 200 x 200 mm up to 1 x 1.635 m.



## Dosing & Weighing Technology

### Specifications

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Dosing range	<20 grams/second to over 1000 tons/hour
Standard slide sizes	200 x 200 mm (0.04m <sup>2</sup> ) up to 1 x 1.635 (1.6m <sup>2</sup> )
Dynamic flow range	1:1000

### Applications

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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:

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Datasheets	ALFRA KCD / GCD / GCDx(y) / FCD / FCCD / LBW / BUY
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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Scan the QR code to see  
the ALFRA DS in action