

Mixer feeding from the market leader:

AZO suction weighing systems for large and medium-sized components

8001 SYSTEMS



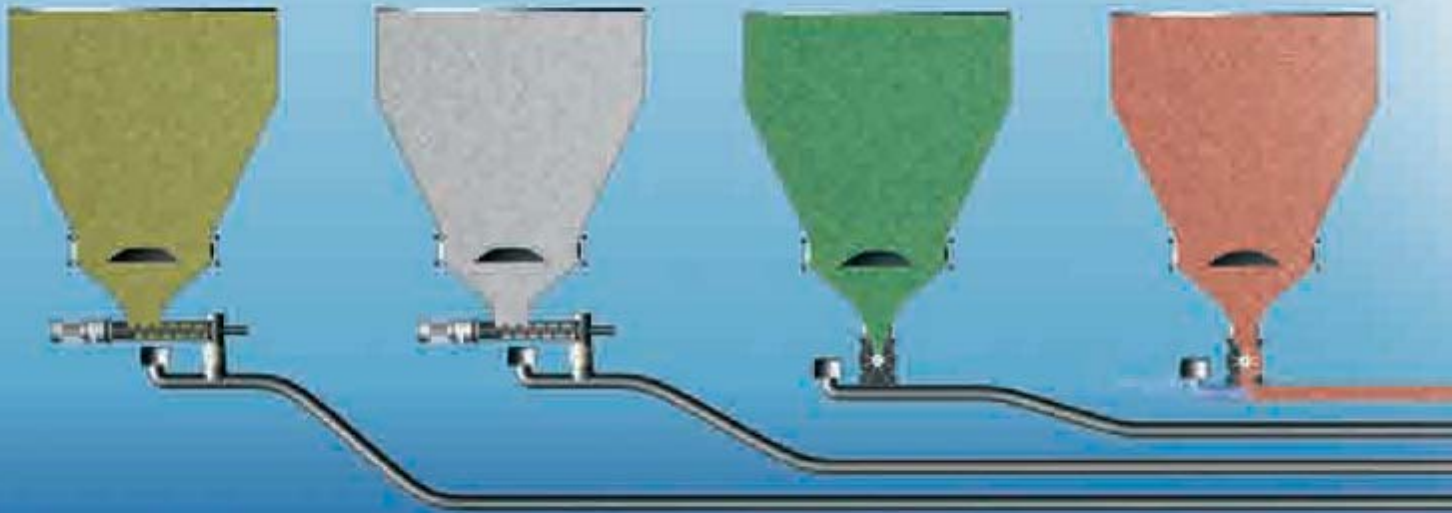
Safe mixer feeding

Economic automation

Space and height
saving design

Flexible system solutions





Discharging, dosing, conveying, consolidation and weighing: Many process steps – one system

Discharging, dosing, conveying, consolidation and weighing – AZO suction weighing systems are truly multitasking. The principle works as follows:
A container in the form of a conveyor scale is put under vacuum using vacuum pumps, ring compressors and/or rotary piston blowers. This vacuum proceeds through the conveying line up to the product intake. The individual components are thus aspirated into the conveying line in a dust-free manner and transported to the conveyor scales. There the product is separated from the conveying air by filters. It remains in the weighing container, where it is accurately weighed.

Discharging:

The vibration bottom has become widely accepted as a discharge system since it is universally usable. It has smooth surfaces and no mechanically moved parts, making it very easy to clean as well as wear and maintenance-free. Water condensation in the silo is avoided as no heated air is blown into bulk materials. In association with a correctly dimensioned silo cone the vibration bottom provides symmetrical descent of the bulk material columns without funnel

and bridge formation, thus guaranteeing "first in - first out".

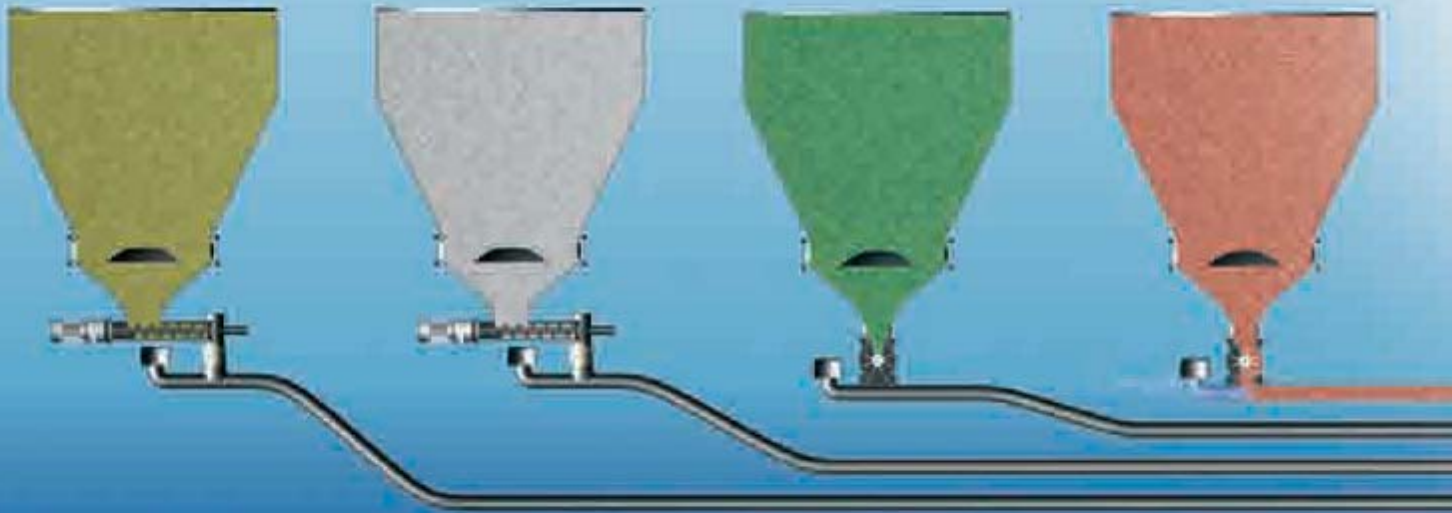
Dosing:

A dosing device is located under the discharge equipment for channelling raw materials into the conveying line: Either a rotary valve or a product feeder with rotating rotor, or a dosing screw with worm thread continuously transfer bulk materials into the conveying line. Dosing screws dose poorly flowing products



Raw material storage in outdoor silos

Dust free product intake and clean frame skirt through suction conveying: left – vibration bottom with dosing screw, right – with dosing rotary valve



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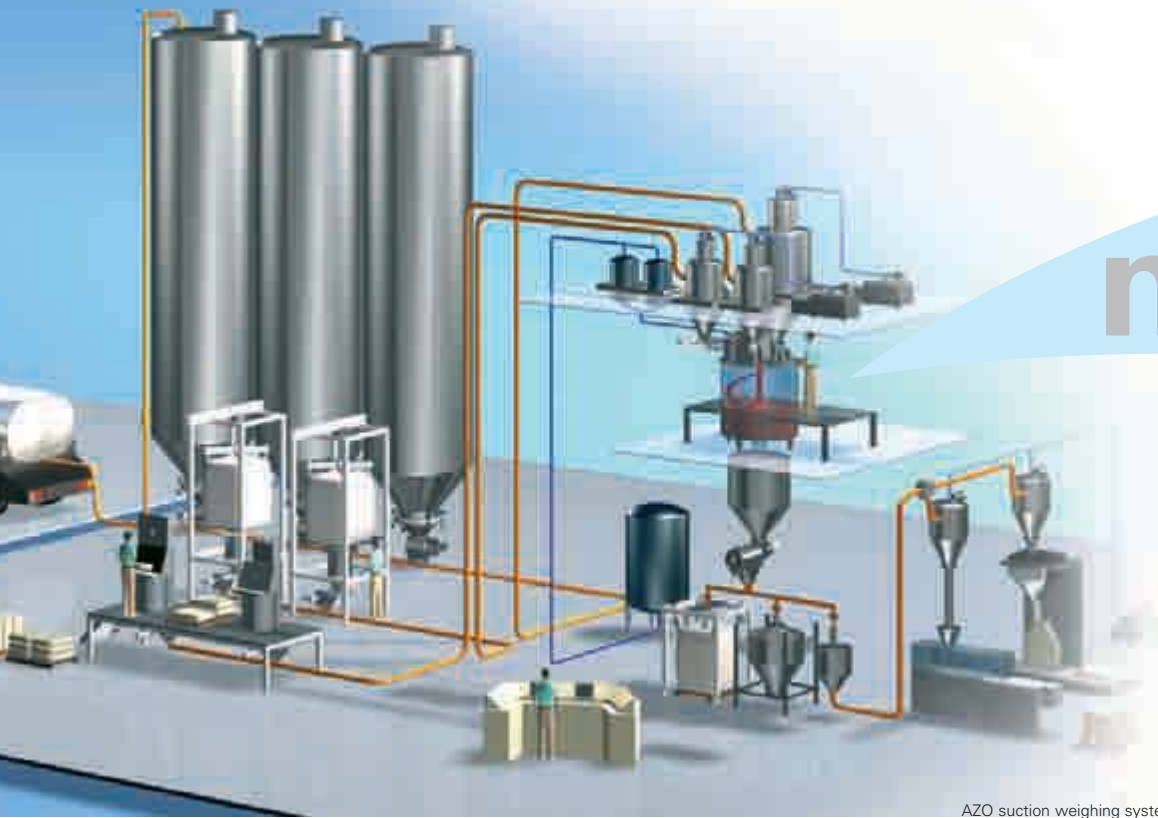
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heater/co
dissolver
mixer



AZO suction weighing systems get your raw materials right to the point

More than 7,500 convincing arguments for suction weighing systems from the market leader!

Pneumatic suction weighing systems with conveyor scales are today widely accepted for the economic automation of precisely weighed large and medium-sized components. With more than 7,500 suction weighing systems installed, as the inventors of suction weighing technology we are not only the technological leader, but also the market leader for fully automatic mixer loading.

The result of this is a high level of experience with conveying characteristics and flow speeds for many different kinds of bulk materials and liquids which, in combination with innovative

process leading control technology, we introduce all raw materials into your production processes at exactly the right time and in exactly the right quantity:

Right to the point.



Horizontal mixers in the dairy industry

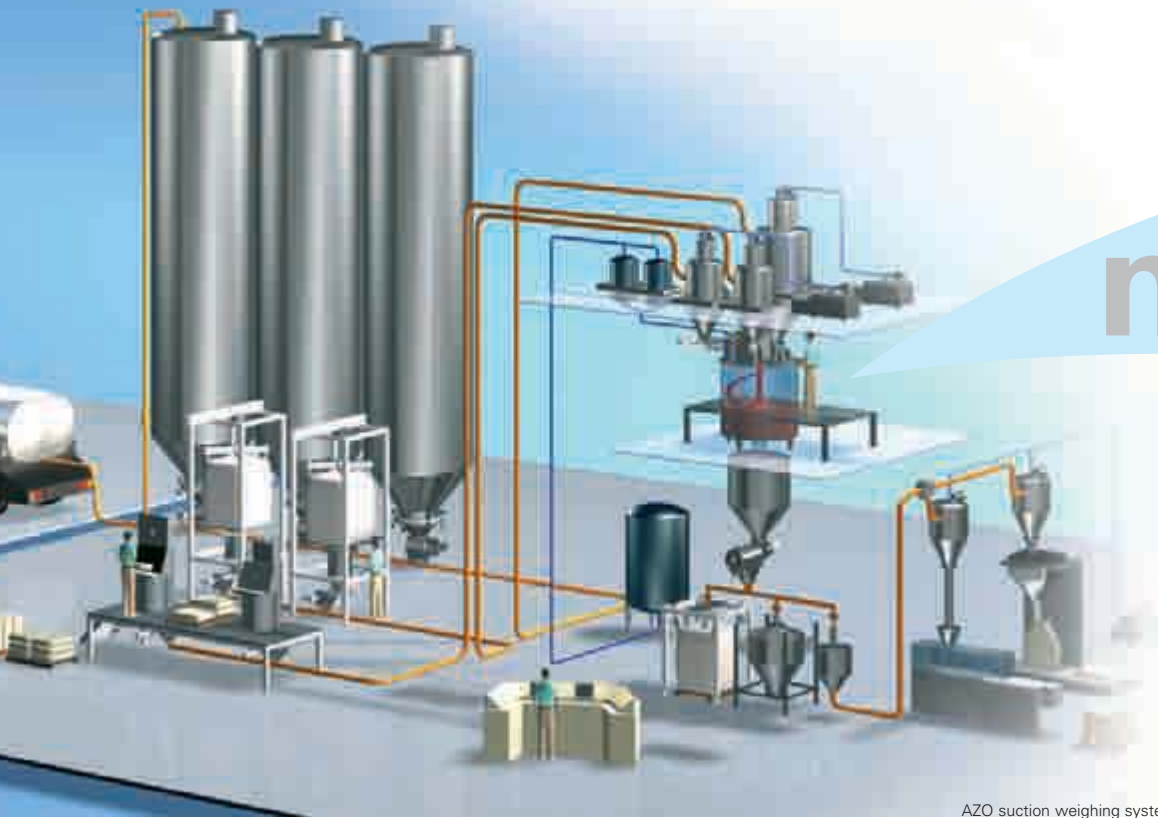


Mixer feeding in the baby food production



Dissolver feeding in the floor production

heater/co
dissolver
mixer



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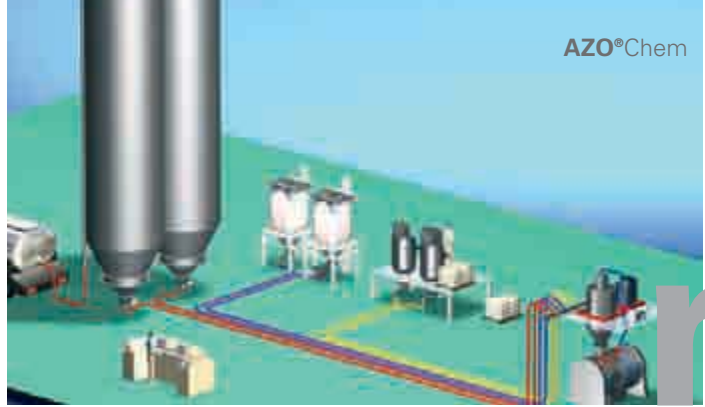
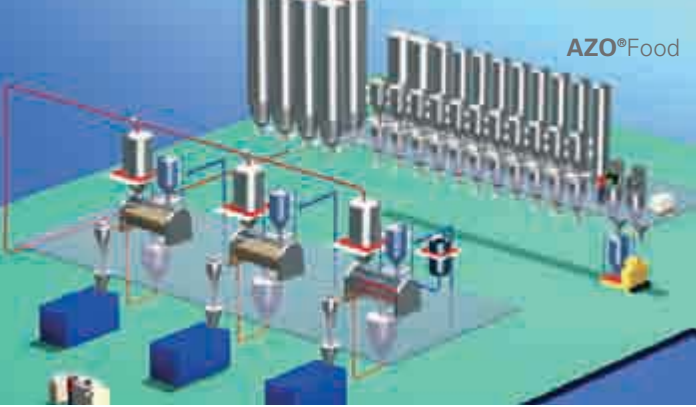
Horizontal mixers in the dairy industry



Mixer feeding in the baby food production



Dissolver feeding in the flour production



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Reliable conveying technology for precise mixing results

Whether food, pharmaceuticals, plastics or chemicals – in many industrial production processes, product quality and the success of the company depend crucially on the precise mixing of raw materials. The basis for this is the reliable, high-precision feeding and dosing of individual components into the mixing process.

Whenever there is a requirement to convey numerous bulk components fully automatically to one or more dispensing points such as mixers, kneading units, stirrers, dissolvers and extruders, AZO suction

weighing systems will give you confidence. Even when there are large numbers of components to be delivered, AZO suction weighing systems are not only a reliable, but also an economical solution.



AZO®Food

- Convenience foods
- Spices / flavours
- Baking / baking mixtures
- Bakery products
- Animal feed



AZO®Vital

- Pharmaceuticals
- Dairy products
- Luxury food / tobacco
- Confectionary
- Beverages



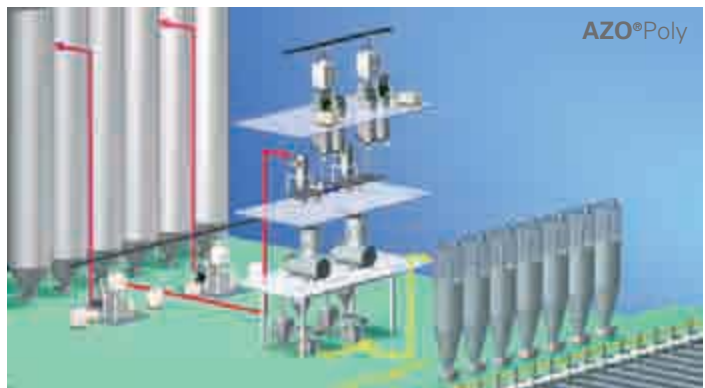
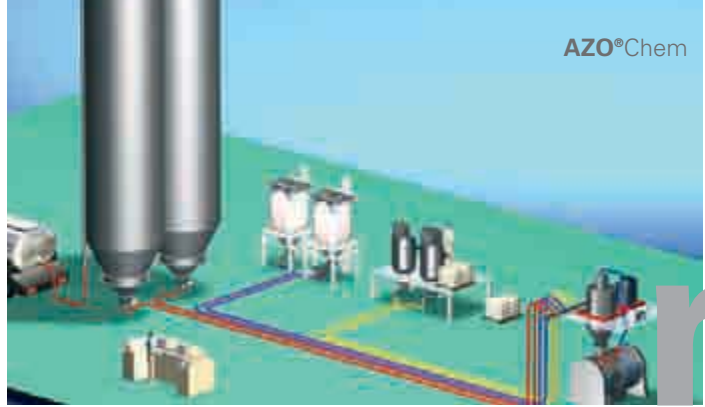
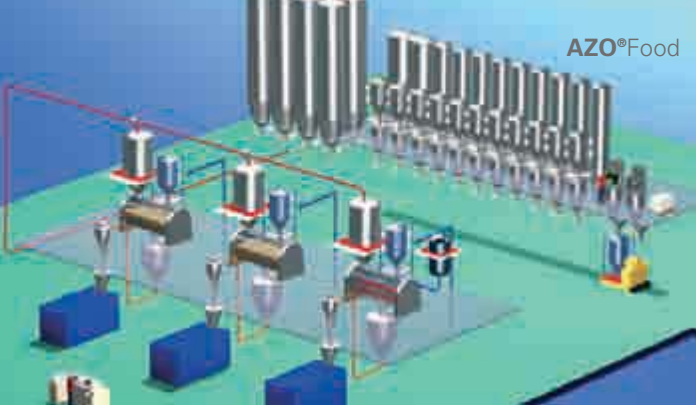
AZO®Chem

- Hygiene / cosmetics
- Paints / lacquers / powder coating
- Cleaning products / protective agents
- Fine chemicals / final products
- Basic chemicals



AZO®Poly

- PVC dryblend / extrusion
- Compounding / surface improvement
- PVC coating systems / plastisol
- Additives/master batch production
- Processing of plastics



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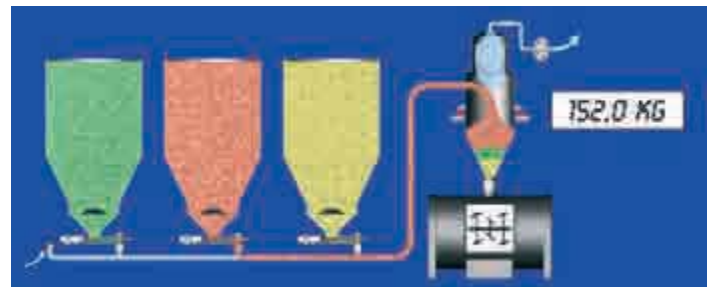


A question of requirements: Mixer loading by single pipe system

With the single pipe system, a conveying line carries products to the conveyor scales from all product feed points such as hoppers, big bag dumping stations and outdoor or indoor silos. The scales control compensates for the different in-flights resulting from varying distances. This increases system accuracy.

Benefits:

- Lower system costs and lower assembly expenses, since only one pipe is required
- Emptying of conveying pipe after each component
- Conveying, dosing and weighing processes run automatically thanks to recipe specification by the control



Conveyor scales with single pipe system for additives in filler production

Feeding of kneading unit with a single pipe system

Tri-blender feeding in the dairy industry

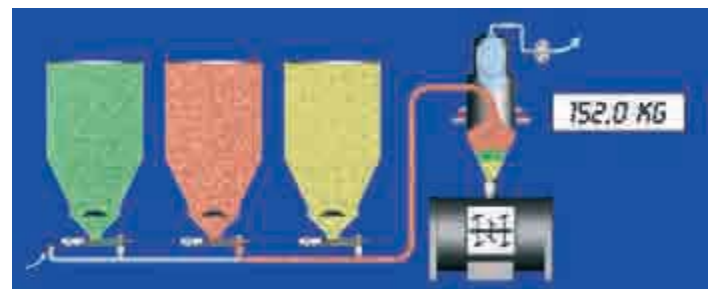


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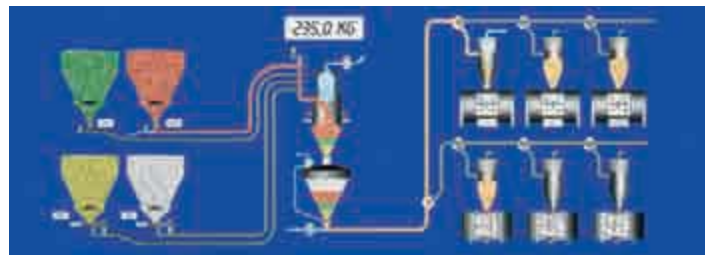


Perfect combination: Central weighing systems from AZO

A central weighing system is available for many intake points and discharge points. It combines the benefits of suction weighing and pressure conveying systems. With this system, individual components from the product intake points are sucked into central conveyor scales equipped with an electromechanical weighing device and weighed. The weighed batch is then emptied into a buffer container and conveyed from this point by a pressure conveying system to consumers such as kneading units, mixers or stirrers. In order to achieve high throughputs, the next batch is already assembled in the central scales during conveyance.

Benefits:

- Perfect solution at many intake and discharge points
- Accurately weighed batches for many consumers
- Optimum for long conveying distance and high throughputs
- Simultaneous weighing and conveying to several distant consumers



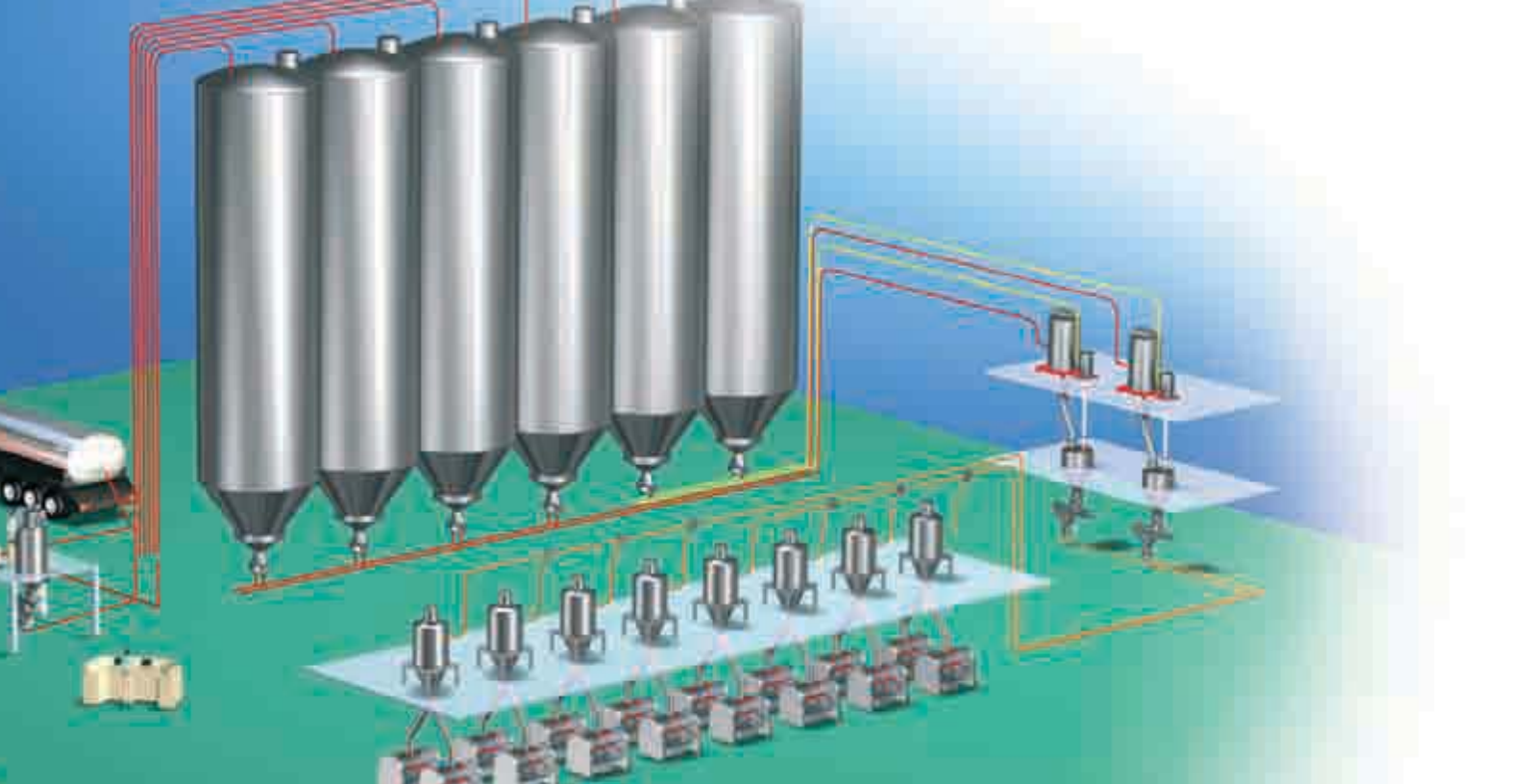
Central weighing station with conveyor scales and buffer container for downstream conveying



Central weighing station for long-lasting bakery products



Recipient hopper for flour and sugar in a system with central weighing system

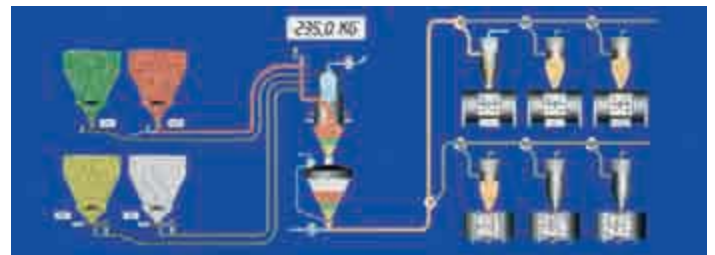


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Central weighing station with conveyor scales and buffer container for downstream conveying



Central weighing station for long-lasting bakery products



Recipient hopper for flour and sugar in a system with central weighing system

Always an economical solution – from the market leader for mixer feeding systems

Whether bulk materials, ingredients in powder form, flavours, additives, micro components or liquids – reliable AZO feeding and process leading systems provide economical, fully automatic mixer feeding in every situation.

AZO systems for the full automation of your raw materials in the mixer feeding field:

For large and medium-sized components in powder form:

AZO suction weighing systems

For medium-sized and small quantities in powder form:

- AZO COMPONENTER®
- AZO DosiBox® and DOSINENTER®
- AZO ShuttleDos®

For liquids:

AZO weighing systems for liquids

For micro quantities:

ManDos, the operator-guided, manual weighing centre



AZO suction weighing systems, the optimum solution for large and medium-sized components



AZO COMPONENTER® small quantity automation from the market leader



AZO DosiBox® and DOSINENTER®, inexpensive automation of small quantities



AZO ShuttleDos®: The new dimension in speed during batch preparation



Patented AZO weighing systems for liquids



Operator-guided weighing of micro quantities with ManDos

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