

The AZO product and service spectrum - right to the point.

**Systems and individual
solutions for bulk material
handling.**



 **AZO.**[®]
Right to the point.



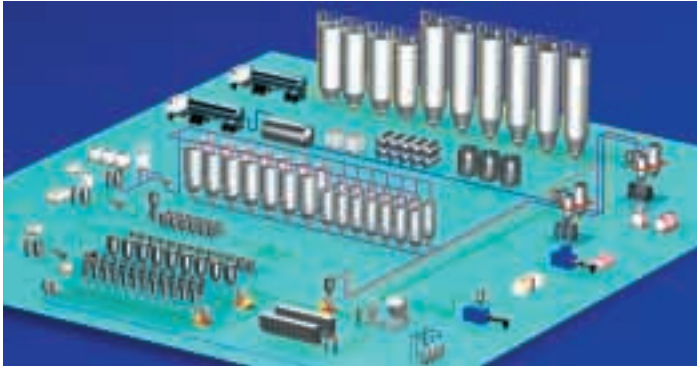
Reliability you can count on

About us:

AZO heads the field where quality and technology in the construction of plant and equipment for handling bulk materials are concerned. For decades we have been creating trends that revolutionize our sector of industry. Indeed, bulk material handling today is simply inconceivable without AZO innovations such as cyclone screeners, vacuum weighing systems, pneumatic conveying systems, the AZO Componenter™ and process control and graphics systems.

Our customers are global market leaders in their spheres of activity, and place their special trust in AZO's reliability. As a family-run company, we regard ensuring the quality of our products and services as our personal responsibility. And that's the way it's been for over 50 years.

Reliability is the keyword



- **Storage / Product input**
- **Dosing and weighing**
- **Automation of minor and micro ingredients / Container systems**
- **Process control systems**
- **Feeding / Individual solutions**



Storage

equipped for the future

You need the reliable support of your storage technology to enable flexible response to new market requirements in the future too.

AZO helps you create additional storage capacity, the high standard of which is designed to cater for various types of bulk material.

Special filters and discharge systems ensure efficient and safe dispensing, even of bulk materials that are normally hard to handle. We provide silos, hoppers and containers made from a range of different materials with a selection of various surfaces to meet your specific requirements.

- First in first out
- Rust-free, no maintenance required
- Special discharge module
- Wide range of standard and safety accessories
- Efficient, safe dispensing, even of materials normally hard to handle



Product feeding

Ensure optimum storage in closed systems of bulk material delivered in sacks, Big Bags or drums.

Product feeding systems from AZO are precisely geared to the working conditions under which they are to be used. Various different modular systems are available to suit the bulk material in question.

Comfortable docking systems and highly efficient vacuum facilities prevent any dust accumulation.

- Tried and tested
- Ergonomic design
- Individually configurable
- Various forms of installation
- Flexible modular technology
- Combined feeding systems
- Dust kept to a minimum
- Specific solutions

flexible

Dosing

accurate

High-precision dosing of bulk material in batch or continuous processes.

Dosing systems from AZO are equipped with dosing screws, in most cases with vibration support. High dosing outputs are achieved in coarse-flow operation, and the dosing of materials in fine-flow mode is highly precise. A pneumatic valve prevents any trickling after the dosing process. Quick-release locks make AZO dosing systems easy and quick to clean and inspect.

- **Discontinuous or continuous dosing**
- **High dosing accuracy**
- **Can be fully integrated in the production flow**
- **Large output range**
- **Easy to clean**



Weighing

AZO's invention of the vacuum weighing system has revolutionized the entire bulk materials handling process.

The vacuum weighing system permits implementation of three functions within one single work operation, namely conveyance, dosing and weighing. This enables a high degree of accuracy when handling large throughput volumes. Horizontal material flow means that a large number of components can be conveyed to the mixer whilst requiring less space and height.

- **Conveyance, dosing and weighing in one single system**
- **Less space and height required**
- **Horizontal material flow**
- **Efficient handling of a large number of raw materials**

The AZO product range:

Vacuum weighing systems, batching scales, liquid weighing systems, electromagnetic weighing devices and hybrid scales.

innovative





Integration of minor and micro ingredients

automatic

The AZO innovation for high-precision dosing, weighing and integration of minor and micro ingredients.

The AZO COMPONENTER® offers a wide variety of solutions covering the complete automation of a large number of minor components such as ingredients, additives, colouring agents, etc.:

- Verifiable
- Highly accurate
- Fully automatic or operator-controlled
- Consistently high quality
- No excess dosing
- Documentable
- Controlled

AZO COMPONENTER® circular system

Cost-effective system for up to eight components

AZO COMPONENTER® linear system

For an unlimited number of components

AZO COMPONENTER® in-cycle system

For difficult products, such as pigments



Operator-controlled weighing of micro ingredients with MANDOS:

Adding of micro ingredients via manual, computer-aided weighing stations.

Container systems

Benefit from the flexibility and hygienic characteristics provided by AZO containers when frequent recipe changes are called for.

AZO's range of containers run from basic models right through to high-end systems. Irrespective of whether the bulk material in question tends towards funnel flow, segregating or arching, AZO has the right solution. Batch separation and trackability are guaranteed. Fully automatic container systems can be realized in conjunction with driverless transportation systems and the AZO COMPONENTER®.

- **Hygienic**
- **Optimum stability and accuracy of fit**
- **Fully automatable modules**
- **Optimal outlet geometry**
- **No contamination**
- **Easy to clean**

contamination-free





Process control and graphics systems custom-tailored

You can achieve the highest level of efficiency in bulk materials handling by way of AZO's process control systems that we program specifically for your plant.

Minimize your personnel requirements, maximize production efficiency and ensure optimal transparency via centralized control, monitoring and documenting of the entire procedure. Comfortable operator control and modern

identification systems make for reliability and offer valuable potential for rationalization.

At the same time, you increase your plant's utilization capacity and avoid over-aging in the warehouse.

tems transparency

- Plausibility checks
- Maintenance software
- Optimized throughput rates
- Optimum scheduling of orders
- Operator-controlled dosing procedures
- Process documentation
- Teleservice





Feeding systems reliable

Place your trust in tried-and-tested AZO technology and ensure the availability of your production operations.

More than anyone else, we at AZO have consistently come up with innovations to spur on the development of pneumatic conveying plant. We offer a complete range, covering vacuum, pressure and impulse conveyor systems. Benefit from our specially developed vacuum conveyor systems that are capable of ensuring careful, segregation-free conveyance, even of delicate and abrasion-sensitive raw materials.

We developed the impulse conveyor system for temperature-sensitive bulk materials.

- Large-surface, self-cleaning filters
- High output over long conveying distances
- Electronically monitored
- Careful conveying
- Segregation-free



Intelligent individual solutions

Go for quality, and for quality of detail too. After all, a system is only as good and reliable as the sum of its components.

- Level indicators
- Cyclone screeners
- Diverter valves
- Screeners in the conveying flow
- Vibration dischargers
- Feeders
- Filters

- Robust
- Tried and tested
- Sophisticated technology
- Cost-effective due to modular system structure
- Can be seamlessly integrated in any system
 - Reliable

Quality of detail



Advisory services

- comprehensive
- solution-oriented
- holistic approach
- individual
- worldwide

Planning

- Individual solutions
- Expert implementation
- Fast and non-bureaucratic
- Cost-minimized
- Sophisticated technology

Know-how

The **AZO Product Configurator** enables the development of individual solutions via coordination of modular systems. Within this framework you benefit from our **AZO database**, in which the characteristics of over 3500 types of bulk material are stored.

www.azo.de

Always at your

AZO Pilot Plant

- Application-oriented development
- Tests and trials under practical conditions

Production

- State-of-the-art, computerized machines and NC-controlled processing centres for the highest levels of quality and punctuality in production.

Service

- Reliable, efficient installation and maintenance
- Modular structure for cost-effective, problem-free expansion
- Teleservice for remote diagnosis and maintenance
- Intensive training courses



service

AZO – Certainly your ideal partner.

We at AZO know the ropes. For decades we have generated new impetus and repeatedly come up with exciting technological innovations.

Let AZO develop an efficient, cost-effective individual solution or a complete, intelligent and custom-tailored system for you.

The wide extent of our trade knowledge is reflected in AZO's various business units. And the specialists there know your requirements.



AZO®Food

Cost-effective, automated feeding of bulk materials, ingredients, minor components and liquids for the manufacture and processing of basic foodstuff materials, bread, cakes and pastries, nutrients, convenience food and condiments.



AZO®Vital

Systems for hygienic, closed handling of bulk materials, carrier and active ingredients, as well as minor ingredients and liquids for the manufacture and processing of dietary foods, confectionery, luxury foodstuffs, beverages, milk products and pharmaceuticals.



AZO®Chem

Automatic feeding systems for closed handling of bulk materials, additives, minor ingredients and liquids for the manufacture and processing of chemicals, adhesives, cosmetics, cleaning and protective materials, paints and lacquers.



AZO®Poly

Efficient, automated feeding systems for handling bulk materials, additives and liquids for the manufacture and refining of plastics, dryblend, pastes, synthetic additives, rubber, including recycling technology.



AZO®Plast

Automatic granulate feeding system for storage, feeding and colouring of plastics and ground stock for injection, blow and extrusion moulding plants.



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