

NEXT LEVEL | **Raw material automation**

smart | simple | safe



Digital brochure with
additional features

AZO.[®]

„Your wish is our command! “

AZO is your specialist for raw materials automation and logistics.

The customised combination of durable systems and components, tailored to your specific requirements and based on our extensive expertise in raw materials, results in high-performance overall solutions that meet your exact needs.

Thanks to its expertise in various sectors, AZO has established itself as a trustworthy partner and is known for its reliability and quality.

Our solutions



CHEMISTRY



PLASTICS



**ADDITIVE
MANUFACTURING**



FOOD



DAIRY PRODUCTS



PET FOOD



PHARMA



**COSMETICS/
PERSONAL CARE**



BATTERY



As a solid family business, AZO has a powerful workforce that contributes to its extensive expertise and experience. Thanks to our global presence, we are able to offer worldwide expertise in plant engineering and process technology from a single source.



Our range of services

Our applications



STORAGE /
DISCHARGE



PRODUCT
FEEDING



SCREENING



PNEUMATIC
CONVEYING



TRANSPORT /
LOGISTICS



DOSING /
WEIGHING



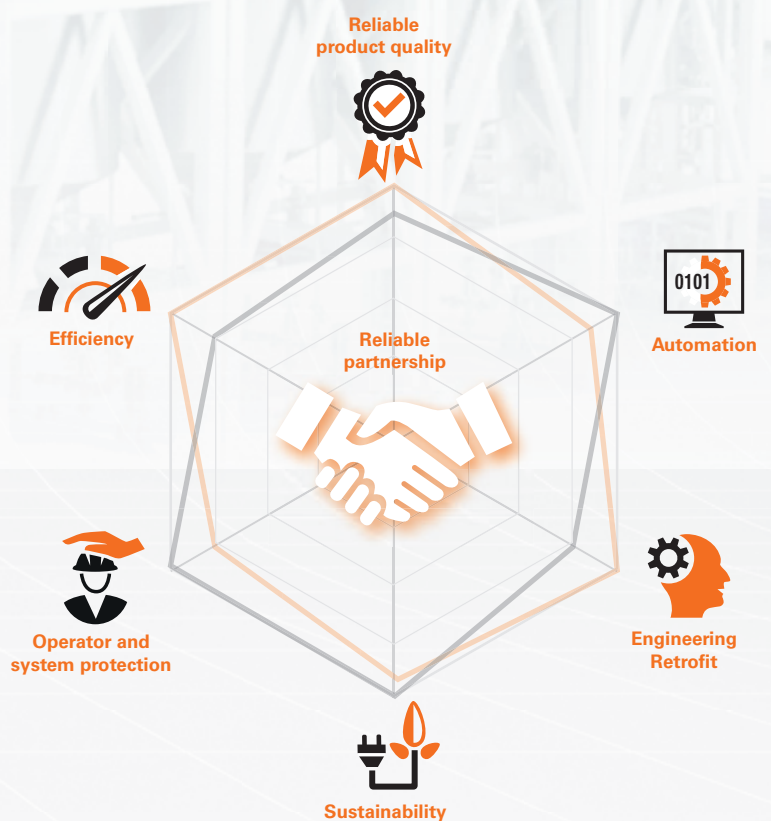
MIXING /
HOMOGENIZATION



CONTROL /
AUTOMATION

State-of-the-art production technology, technological openness and extensive experience in a wide range of industries ensure durable and sustainable automation solutions.

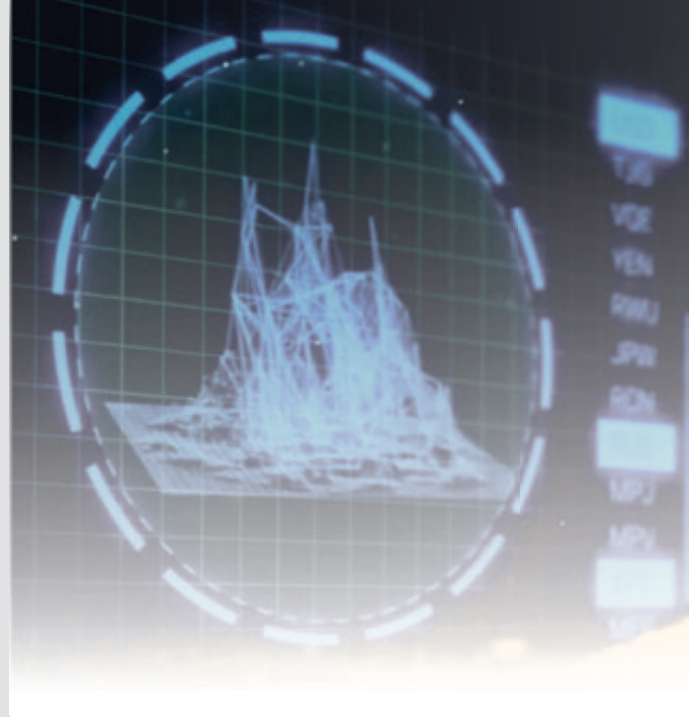
With a strong focus on innovation and customer satisfaction, AZO has been setting new standards for efficiency, accuracy and speed in raw material automation for over 75 years.



Knowledge leads to better solutions

The automation of previously manual processes begins with a look at the raw material.

At AZO, this is done either through the comprehensive raw materials database or through in-depth **examination in the AZO laboratory for raw material analysis.** Important physical properties are examined there in order to assess the process engineering behaviour.



In addition to bulk, tapped and density determination, the particle shape and size distribution are also recorded using various methods.

This is because bulk materials vary greatly in their behaviour due to their different properties.

AZO knows the challenges and finds solutions for every raw material, no matter how demanding.

Your personal AZO Taskforce



In addition to raw material analytics, a deep understanding of process engineering aspects is crucial for the future-proof automation of bulk solids processes.

Consideration of quantities, throughputs and customer targets is essential, as is experience with topics such as contamination prevention, ATEX, product and operator protection, batch tracing, validation in accordance with GMP/FDA, HACCP and much more.



The competent and experienced AZO engineering team will support you with any questions you may have about plant engineering and the sustainable optimisation of your production plants.



Major and medium components – efficient automation

Major components are mainly delivered by silo trucks and stored in silos.

AZO cyclone screeners remove impurities after discharge.
Dry materials are dosed with vacuum weighing systems that convey and weigh precisely.



Medium components, delivered in bags or containers, are transferred to closed systems using big bag or bag discharge systems.
Intelligent docking systems and powerful suction systems minimise dust generation.

From single components to innovative systems



Silo and discharge systems



Product feeding systems



Screening systems



Pneumatic conveying systems



Vacuum weighing systems

Minor and micro components – exact composition

AZO offers various systems for the handling of small components. Your requirements - Our customised solutions

In the manufacture of foods, pharmaceuticals, chemicals and plastics, precise adherence to recipes is crucial to the quality of the products. As a producer, you must therefore be able to rely on the exact supply of your raw materials.

The sustainable AZO systems offer high precision, complete documentation and reliable batch traceability. Product and operator protection and a user-friendly control system are a matter of course.



With the AZO RoLog® a variable number of very small quantities of up to 5 kg can be dosed fully automatically.



Always the right solution from AZO



AZO COMPONENTER®



AZO COMPONENTER® Step



AZO DOSINENTER®



AZO ShuttleDos®



ManDos

How much automation does your production need?



The answer depends on your specific requirements.

The successful automation of your production processes requires not only in-depth expertise in raw materials, but also the integration of modern technologies and processes. This includes not only classic control solutions, but also the maintenance and modernisation of your systems so that they are always up to date.

The higher the level of automation, the more you benefit from consistently high product quality, improved traceability, shorter downtimes and optimised system performance. Not only innovative and mobile operating concepts play a role here, but also regular security updates that keep your systems reliable and secure for many years to come.

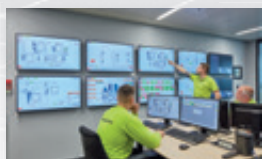
- **Product quality and safety**
- **Production safety**
- **Production planning safety**
- **Economic efficiency**
- **Reliability**
- **Future security**



The gamechanger from AZO



Plant controls



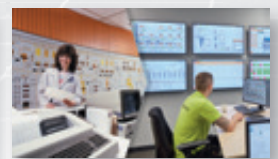
MES systems



Production control system
KASTOR



Data evaluation



Retrofit – Control system
modernisation

If it needs to run liquidly



AZO LIQUIDS offers innovative solutions for mixing, dispersing and homogenising in liquid and semi-solid semi-solid processes.

The new generation of batch and conti process systems with fully automatic raw material feed is based on decades of experience.

The range of services includes systems for the pharmaceutical, cosmetics, food and chemical industries as well as customised solutions. Process-relevant properties are tested and innovative solutions are developed in the Customer Process Centre.



AZO LIQUIDS provides engineering services for production plants and offers customised solutions for your specific requirements.



AZO LIQUIDS: Fully automatic solutions for liquid and semi-liquid processes



Batch vacuum processing plants



Homogeniser



Continuous plants



Plant Engineering



Automation

Less risk, **more reliability**



You can also rely on AZO at all times when it comes to service, be it commissioning and installation, maintenance and inspection or the fast and reliable supply of spare parts.

We have a permanent team of qualified service staff who will support you in all matters relating to your AZO system and provide you with fast and competent help if you have any questions.

- Maintenance
- Inspection
- Spare parts
- Hotline
- Consultancy
- New assembly / Installation
- Remote maintenance
- Retrofit



AZO[®]CARE



Also via remote maintenance on request – This keeps your AZO system running reliably and safely, minimises downtimes and optimises operating processes.

Good for you – and the environment

Sustainability and resource conservation in production play a central role today.

Modern raw materials logistics, energy-efficient container logistics and the latest control systems offer important solutions.

Outdated existing plants can be modernised efficiently and sustainably with the help of modern systems and components from AZO.



Thinking and acting sustainably is what drives us to develop innovative and environmentally friendly solutions for raw material automation. And it motivates us to be a reliable and strong partner for our customers.

Ecology



Society



Economy



For AZO, sustainability is not just a new 'megatrend'. We have been doing many things intuitively 'sustainably' for years, not least because it has always been about more than just ecological sustainability.

Sustainability in all its social and economic facets is an essential part of our corporate philosophy and, together with our values, is the driving force behind our constant transformation and the handover of the company to the third generation of the Zimmermann family.

Sustainability thrives on continuity, not perfection. That is why we at AZO holistic responsibility for our actions and are committed to a sustainable future.

Ingo Gramlich, Head of Integrated Management System



On site worldwide

Global presence, personal contact on site -

Here you will find your contact person.



Worldwide.



AZO.[®]

We Love Ingredients.

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