

AZO RoLog®

Automated dosing of bulk solids in micro quantities

Automatic, flexible dosing

Efficient management of resources

Consistent, strict adherence to formulation

Operator and product safety

Tracking & tracing

Preferred applications

By using a robot, it is possible to dose an extremely variable number of micro quantities up to 5 kg in a fully automatic process. This is how AZO RoLog® replaces complicated and expensive manual weighing of micro quantities. The safety cage surrounding the robot provides complete protection for the product and the machine operator.

This means extremely critical and harmful raw materials can also be dosed without difficulty. This system can be implemented in the pharmaceuticals, food,

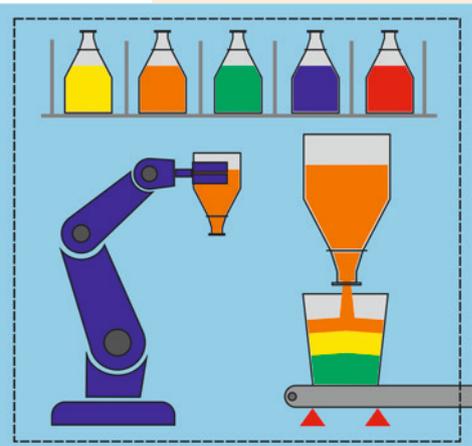
chemicals and plastics industries to meter pigments, dyes, aromas, additives, active substances and numerous other micro quantities. The modular structure also makes it possible to achieve maximum versatility, regardless of whether it is an individual solution or a solution integrated into the overall logistics system.

Special advantages

- High throughput and 24/7 production
- Reduces costs and saves on resources

- Extremely reliable
- Flexible formulations
- Reproducible dosing results
- Consistent formulation accuracy
- Easy to clean
- Shielded work envelope
- Dosing of extremely critical raw materials without operator contact
- Simple to transport and easy to upgrade thanks to modular structure
- Variable number of raw materials
- Continuous traceability of batches
- Tracking & tracing

SYSTEMS



System description

The machine operator first ensures that the raw materials are prepared ready for automated further processing in dispensing and storage units (DLE). A safety cage separates the automation range (the robot's work envelope) from the production environment. The raw materials logistics system, in a shielded cage, offers maximum protection for the machine operator and the product. In addition, the modular design of the storage module for raw materials ensures a high degree of flexibility when expanding raw materials

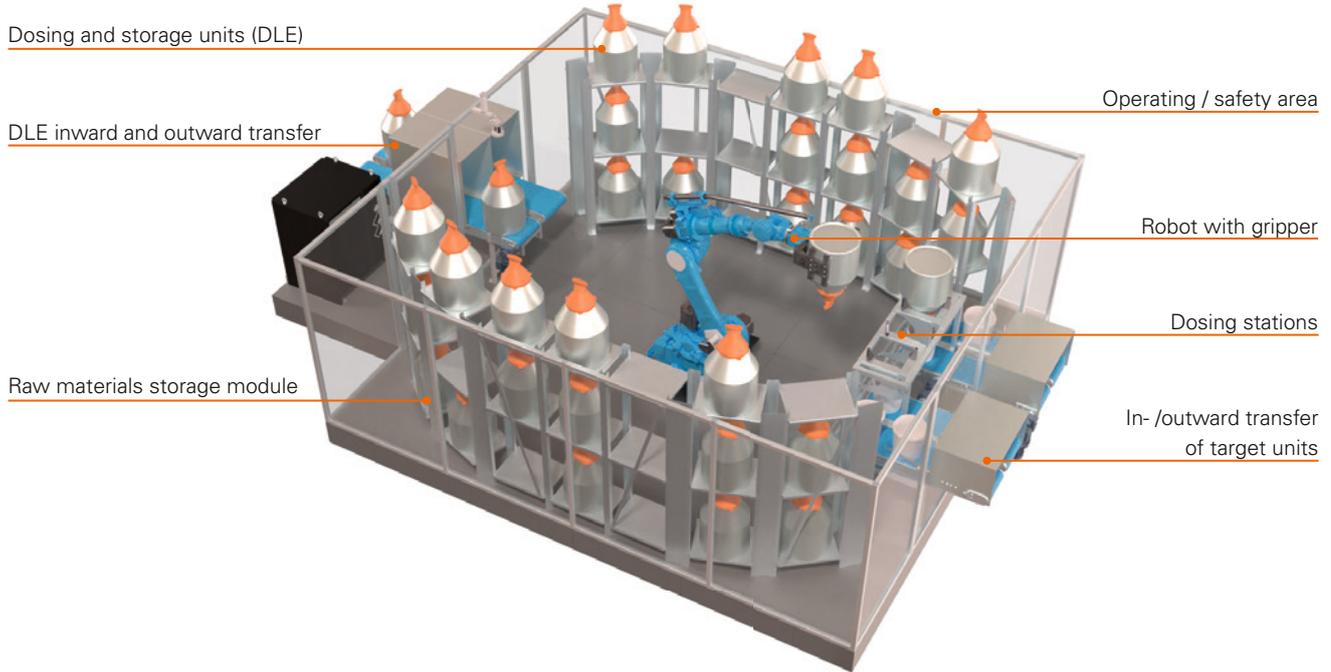
components. The robot assembles the batch in accordance with the required formulation in a fully automated process by preparing the correct dispensing and storage units. At the dosing point, the required micro quantities are dosed by means of the AZO®eDos reliably and accurately from here into the target containers. Reproducible dosing results are achieved in the range from 100 g to 5 kg.

After weighing all components into the target container, the latter is placed ready at a specific intersection for further processing.

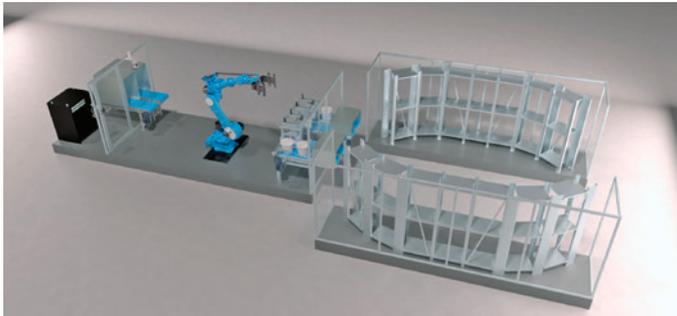
AZO RoLog® is now immediately ready for processing further production jobs. This means the system operates efficiently and without losing time. 24/7 production is possible with constant provision of raw materials and receptacles. AZO RoLog® can be operated as a standalone system or it can be fully integrated into an overall logistics system.

AZO®

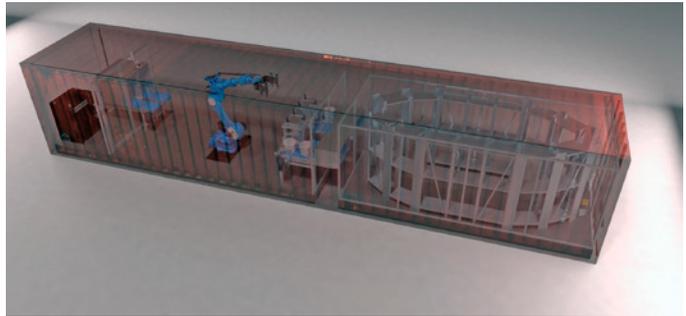
Design of the AZO RoLog® system



The modular concept



Complete pre-assembly including functional test at AZO. Easy to disassemble thanks to the modular design



Easy transportation with standard ISO containers. Fast installation and commissioning times on site



The products are dosed into the target container with an accuracy of up to ± 2 g (depending on the raw material and flow behavior) via the AZO®eDos dosing system. Advantages: simple geometry, easy to clean, hygienic, easy to dismantle



AZO®RoLog can be operated as a standalone system or fully integrated in an overall logistics system.



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The design is subject to change due to our continuous improvement program.