

AZO®eDos

Dosing system for precise dosing of small quantities

High dosing accuracy

No moving metal parts in the product flow

High abrasion resistance

Simple design

Preferred applications

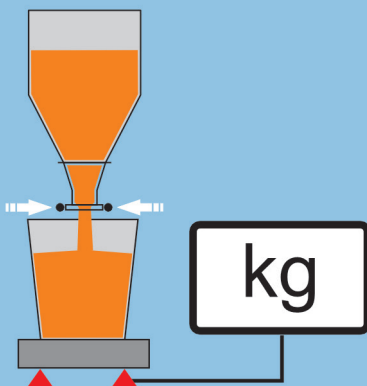
AZO®eDos was developed specifically for the precise dosing of small quantities in automated processes – in particular for use in the AZO RoLog®, the AZO COMPONENTER® and in compact dosing stations.

The patented dosing unit can be used for almost all bulk materials in the food, plastics, chemical, and pharmaceutical industries.

Special advantages

- **High dosing accuracy**
up to ± 1 g – depending on the product.
- **Simple design**
This results in low maintenance costs.
- **Product safety**
Since there are no moving metal parts in the product stream, there is no friction or metal abrasion.
- **High abrasion resistance**
even with abrasive raw materials such as quartz sand, kaolin or beaded carbon black.
- **Product safety**
Materials comply with requirements, e.g., food-grade or silicone-free.
- **Plant safety and operator protection**
Resistant to static charge – safe in ATEX-relevant environments (according to external expert opinion).
- **Durability**
The dosing unit has a service life of more than 5 million load cycles.

THE INNOVATION



How it works

AZO®eDos consists of a flexible dosing funnel with a replaceable spring element made of high-quality polyurethane (PU). Dosing is carried out by a servo-electric actuator that compresses the dosing lip laterally. This creates a defined dosing gap through which the bulk material flows out. When the pressure is released, the gap closes automatically due to the restoring force of the spring element – without any additional mechanics.

The dosing capacity can be precisely adjusted via the opening width of the gap. The multi-stage dosing process with coarse/fine switching ensures high throughputs and accurate weighing results.

Modular expandability

The system is designed to be adapted to customer-specific requirements. For particularly demanding applications, the dosing station can be optionally

equipped with dust extraction, a pneumatic rapper, and a scale (both positive and negative weighing) – for clean, safe, and highly precise processes.

AZO®

Technical Data

Dosing capacity: up to 650 [l/h]

Dosing accuracy*: +/- 1 [g]

* The dosing accuracy depends on the product being dosed.

Product-specific values can be determined at the AZO Technical Centre.

Design

Dosing station

Discharge aid

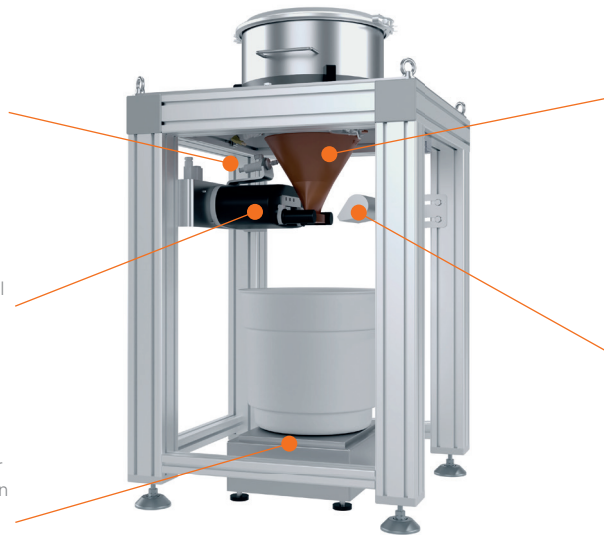
For products that are difficult to flow, a rapper can be used to assist discharge.

Actuator

The actuator enables precise and controlled opening of the dosing device, thus ensuring accurate material delivery. The multi-stage dosing process with coarse/fine switching ensures high throughput rates and accurate weighing results.

Weighing system

In combination with again-in-weight or loss-in-weight scale, the dosing station enables high-precision weighing and dosing – ideal for automated processes with the highest demands on accuracy and process reliability.



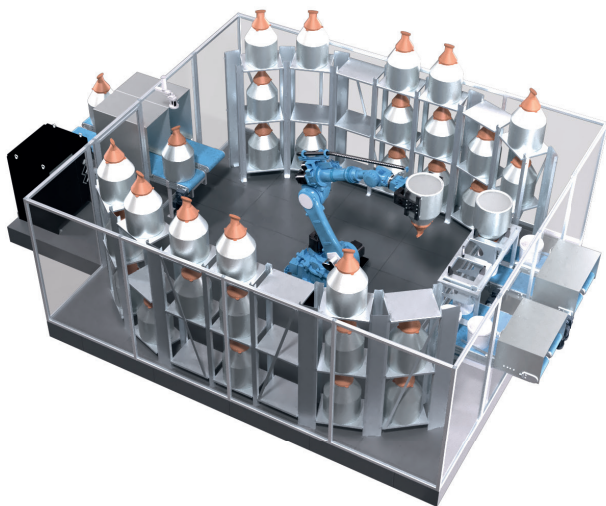
Dosing device

The flexible hopper is made of high-quality polyurethane and is available in a food-grade or silicone-free version. It enables easy and precise handling as well as reliable dosing.

Aspiration

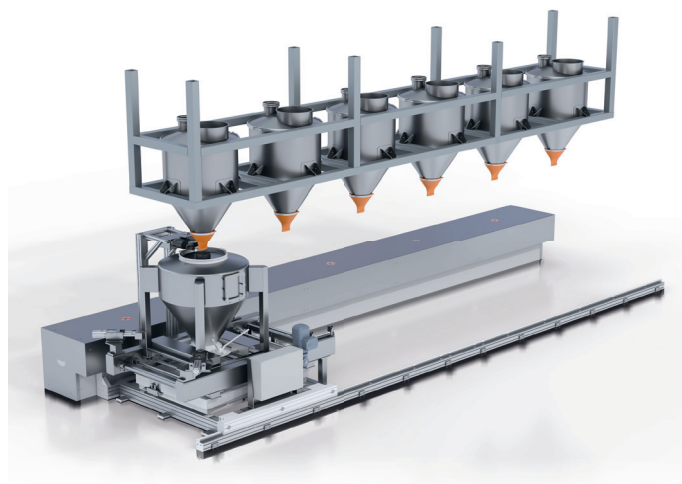
The integrated aspiration nozzle at the outlet of the dosing device reliably removes dust and fine particles. This ensures clean, safe operation and reduces contamination in the process.

Systems



AZO RoLog®

The AZO RoLog® automatically doses small quantities up to 5 kg and replaces manual weighing. The safety cell protects the product and operator, allows the use of critical substances, and offers flexible, modular solutions for various industries and applications.



AZO COMPONENTER®

The AZO COMPONENTER® enables automatic batch composition of small quantities. The solution is ideal when many components are being processed. Dosing takes place automatically into a container that travels along on a mobile scale beneath the dosing points.