

# Big bag dumping systems from AZO: Flexible, high-efficient system solutions

## 6101 SYSTEMS



- Easy handling
- Reliable discharge
- Comprehensive reliability
- Easy to clean
- High system quality
- Low maintenance costs





## Intelligent modules, solutions tailored to requirements

The big bag is a cheap and practical container for conveying and storing bulk goods and has become indispensable over the years. Dumping systems for big bags must meet a wide range of requirements and must function under many different circumstances. For example, big bags have different sizes and designs, different purposes and have to operate in different types of space.

Irrespective of whether you use big bags as storage containers or whether you want to discharge them completely into silos: AZOs coordinated modular technology always offers a clean solution.

### Our sophisticated system solutions for dumping big bags guarantee:

- Easy handling in transport and docking
- Continuous conveying, even with difficult products
- High standards of safety with protection for the operators, plant and product
- Low-dust discharging
- ATEX-compliant solutions
- Easy to clean
- Meet all customer requirements fully, even in the food and pharmaceuticals industries
- Efficient systems for almost every throughput capacities
- High quality systems and low maintenance costs



Hopper combined with big bag dumping system used in a bread factory



Big bag dumping station in a brewery used for storing kieselguhr which is required for filtering beer. These big bags also hold supplies in readiness. The transparent fabric makes the quantity of product in the bag easily visible.

## The components that make AZO a success

The range of big bag dumping systems from AZO is modular in design and can be easily enhanced to reflect any changes in your production processes. More than 50 years experience in automatic handling of bulk quantities of a wide range of raw materials have created a broad skill and knowledge base that guarantees the best economic solutions for you.

### Dumping stations fully tailored to your requirements

Our range includes different dumping stations. The individual conditions of your production line dictate which dumping stations are most suitable for your purposes.

### Reliable discharge

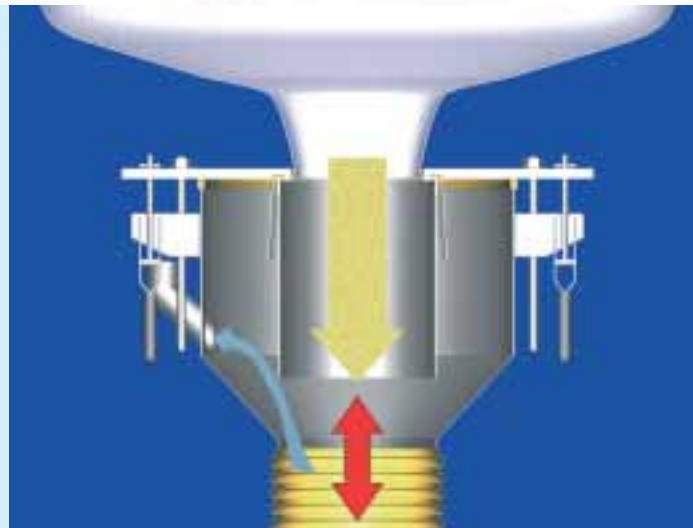
Depending on the bulk goods involved, we use different methods to ensure continuous discharge, even with difficult products.

### Discharge aid

- Spring tension or chain hoist tauten the big bag outlet.
- Connection systems can be lowered to tension the outlet
- Vibrator or massager device



Big bag dumping station for pharmaceutical products with downstream safety screening



Big bag docking system with pneumatic lowering device to tauten the outlet



Big bag dumping station with message device. A vibrator can also be used as an alternative.



## Your AZO advantages

- Uncomplicated handling
- Continuous discharge
- Full protection for operators and product
- Ergonomic operating height
- Big bags emptied completely by means of evacuation
- Very easy to clean
- Intelligent modular technology

### Smart connection systems

We use various connection systems which keep dust levels particularly low when discharging.

- Fixed twin-ring connection system
- Drop-down twin-ring connection system
- Inflatable collar

### Special protection for the product and the operator

The laminar air flow barrier technology provides additional protection for the product and the operator. It ensures that the required OEL ratings are met.

Our big bag dumping systems are constantly being developed. We are currently working on contamination-free docking and connection systems which prevent any dust escaping.



Big bags with 2,000 litre capacity and fixed docking systems i.e. the tension to allow complete discharge is achieved by the lifting device. The big bag is raised just before it empties completely, creating a funnel shaped cone.



Discharging granular bulk material into collecting hopper without a big bag docking system, as no dust is created.



Pharmaceutical industry solution: big bag with forklift cross-bar - outlet tightened by means of lifting device



In these big bag dumping stations, the crane gantry equipped with super powerful magnets places the big bag on the dumping station with the magnetic cross-bar. The operator can decouple the chain hoist at the touch of button.

## Flexibility with a system

Our wide range of cross-bars means that there is a suitable solution for every application and every environment. The forklift cross-bars allow existing forklifts to be used for easy transport and precise positioning of big bags on the dumping station. Magnetic

cross-bars are used to make it easier for the operator to position the big bags in the dumping station. Big bags with inlets are used for particularly sensitive products so that they do not come into contact with the outer fabric. In these cases, big bag lifting

equipment with an integrated device to roll up the inlet can be used to ensure that the bag is emptied completely.



Standard cross bar with locking system



Big bag lifting equipment with an integrated device to roll up the inlet for use with highly sensitive products

## Smart accessory modules, Almost unlimited options

The big bag dumping systems from AZO can be enhanced at any time with tried and tested accessory modules. For example, low-level indicators to ensure

continuous operation, closures which allow the big bags to be partially emptied, cyclone screener for safety screening or dosing systems for controlled intake of

raw materials into the production process can be integrated into the big bag handling systems. There is no limit to their flexibility.



Big bag dumping station with buffer container and downstream dosing in pneumatic conveying systems.



Big Bag dumping station for discharging pharmaceutical products into a buffer hopper



Big Bag dumping station with integrated lifting device for positioning big bags for baking mixes. After discharge, the products pass through rotary valves to the pneumatic conveying systems. Via a manual coupling station it is possible to feed different indoor silos.



AZO also offers efficient solutions for filling big bags.

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