

BIG-BIG

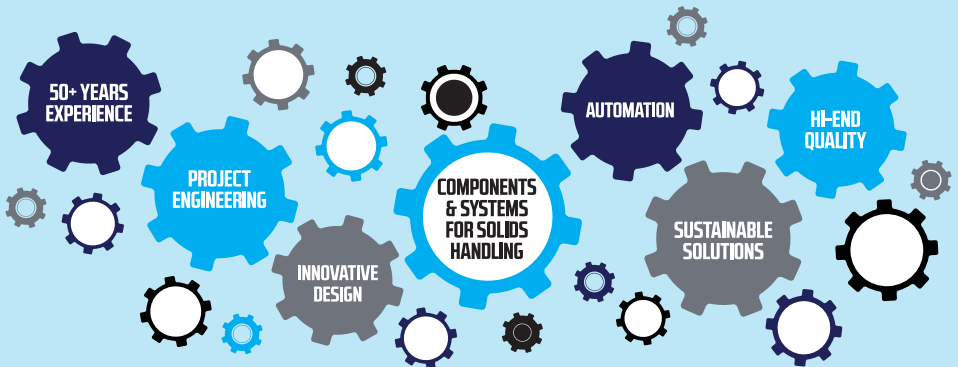
DISCHARGING SYSTEMS



WHO WE ARE

TBMA are specialists in the design and supply of components and systems for bulk solids handling. Our extensive range of high-quality processing equipment is suitable for handling powders and granules with proven reliability in practice in a variety of processing industries. The highly qualified and experienced TBMA staff are well able to translate your requirements into the right execution and application of our components. We also offer the design and execution of complete projects, thus providing you with an efficient, reliable and sustainable solution for your process.

Solutions beyond bulk handling



BIG-BAG DISCHARGING SYSTEMS

The transportation and delivery of raw materials happens more and more with the help of FIBC's (Flexible Intermediate Bulk Containers), also known as big-bags. For efficient discharging, we offer sophisticated systems to optimally utilise the benefits of these bags.

DUST-FREE, EFFICIENT AND HYGIENIC

TBMA big-bag discharging systems are designed for trouble-free discharging of various products from different types of big-bags. Dust formation, product loss and contamination are thus prevented. Products can vary from free to poor-flowing. Our big-bag discharging systems are suitable for processing single or multi-trip bags, with or without a plastic inner liner. Discharge takes place in, for example, a hopper, screw, rotary valve and/or pneumatic transport.

MODULAR CONCEPT

The TBMA big bag discharging system consists of a simple but very clever and flexible modular concept in which the standard models can be expanded with various options. This allows us to easily meet customer-specific requirements regarding product, bag type, working conditions, capacity and budget. TBMA standard range systems are available with short delivery times.

CUSTOMISATION

Our big-bag discharging systems can also be custom-engineered according to your wishes. These special versions can be stationary or mobile, e.g. provided with a glove box, incorporated into pneumatic conveying, weighing and dosing systems or bulk truck loading installations. Several unique options have been designed for value added logistics applications or the safe and hygienic release of foodstuffs or toxic products.



IN BRIEF

- Suitable for almost all big-bags from 500 to 1.600 kg
- Suitable for almost all free to poor-flowing products
- Discharge capacity depending on buffer/conveying
- Dust-free release due to a tight-closed dust membrane
- Dust-free release by clamping hopper for big-bags with spout
- Discharging with accurate weighing (optionally stamped and certified)
- Sanitary high-care execution according to EHEDG guidelines
- Custom-engineered solutions

APPLICATIONS



BIG-BAG DISCHARGING SOLUTIONS

BASE | ECONOMICAL SOLUTION

The base system for big-bag discharging can be used in combination with an overhead crane or forklift. The system consists of a hopper with a supporting frame and can be extended with ancillary equipment. Activation is done by a vibratory motor on the hopper. The discharging capacity is approx. 10-20 bags per hour.

These big-bag discharging systems are suitable for processing single or multi-trip bags, with or without a plastic inner liner. Discharge takes place in, for example, a hopper, screw, rotary valve and/or pneumatic transport



FORKLIFT | HIGH-CAPACITY SOLUTION

Big-bag discharging systems for forklift loading are designed to use a forklift truck to hang the big-bags in a dedicated discharging frame. The system consists of a special steel construction with a rigging frame and can be extended with ancillary equipment. Activation is done by a vibratory motor on the hopper. The discharging capacity is approx. 20 bags per hour, partly depending on the (exclusive) availability of a forklift.

These big-bag discharging systems are suitable for processing single or multi-trip bags, with or without a plastic inner liner. Discharge takes place in, for example, a hopper, screw, rotary valve and/or pneumatic transport.



GANTRY | STAND-ALONE SOLUTION

Big-bag discharging systems with integrated crane loading hoist are designed to work locally and autonomously. The system consists of a steel structure with gantry and hoisting device to lift and process the bags and can be extended with ancillary equipment. Activation is done by a crane and a vibratory motor on the hopper. The discharging capacity is approx. 10 bags per hour.

These big-bag discharging systems are suitable for processing single or multi-trip bags, with or without a plastic inner liner. Discharge takes place in, for example, a hopper, screw, rotary valve and/or pneumatic transport.



MOBILE | FLEXIBLE SOLUTION

Mobile big-bag discharging systems are designed as a flexible and smart solution to accommodate multiple floor silos. These systems are often used in animal feed applications. The system consists of a mobile steel structure that supports the hopper and optional ancillary equipment, e.g. a filter unit. The hoppers are provided with a docking system for a dust-free connection to the floor silo.

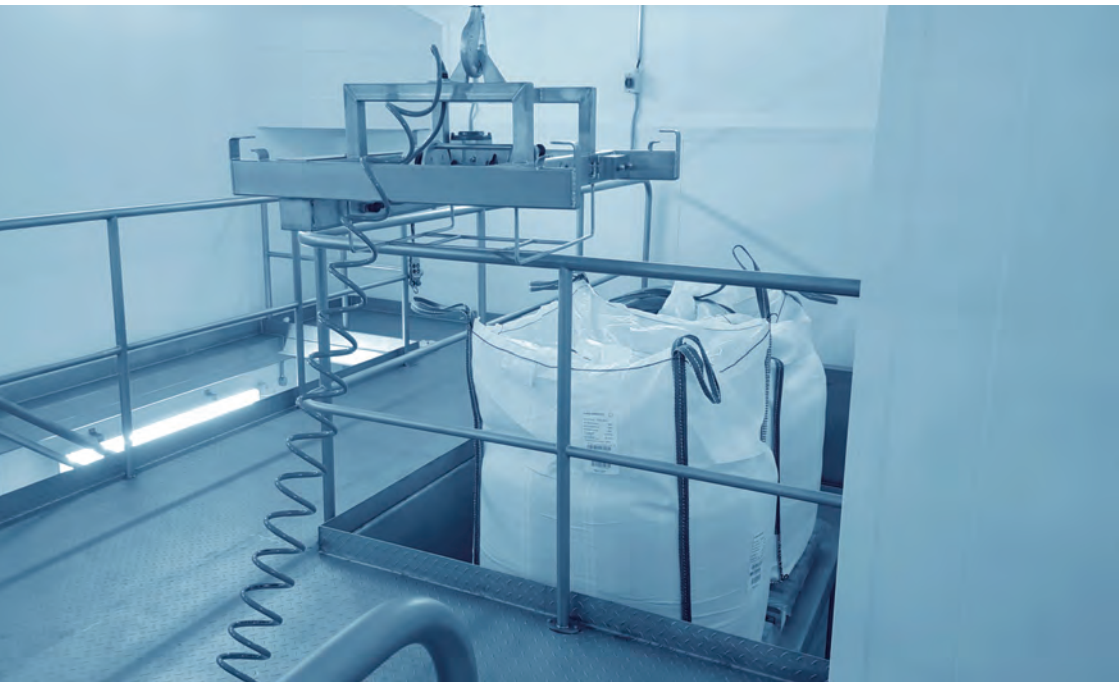
These big-bag discharging systems are suitable for processing single or multi-trip bags, with or without a plastic inner liner. Discharge usually takes place in a floor silo.



HIGH-CARE EXECUTION

Stationary TBMA big-bag discharging systems are available in sanitary, high-care execution for hygienic discharging of products such as baby and infant milk powder etc. These systems consist of a dedicated construction in stainless steel with 45° rotated and fully closed profiles with grinded welding $Ra < 0,8$. Liner tensioning and a liner retractor are optionally available.

These systems are suitable for processing single or multi-trip bags, with or without a plastic inner liner. Discharge takes place in, for example, a hopper, rotary valve and/or pneumatic transport system.



Options	BASE	FORKLIFT	GANTRY	MOBILE
Hopper suitable for most types of big-bags	+	+	+	+
Bag dumping lid for bags (max 25 kg)	+/-	+/-	+/-	+/-
Vibrating motor on hopper for efficient product discharge	+	+	+	+
Rubber dust membrane for low-dust emission	+	+	+	+
3-bladed cutting knife for emptying single-trip bags	+	+	+	+
Clamping hopper for dust-free discharge of big-bags with or without inner liner	+	+	+	-
Vacuuming on clamping hopper to minimise dust emission	+	+	+	-
Drop-stop for interim closure of the bag	+	+	+	-
Roll-up mechanism for empty inner liner	-	+	+	-
Integrated filter for dust-free working	+	+	+	+
High-care execution	+	+	+	-

+ suitable | +/- sometime used | - not applicable



Mobile system with cutting device



Mobile system with removable bag dumping lid and integrated dust filter

COMPONENTS

SYSTEMS

PROJECTS

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