

Big Bag Discharge Station

Mobile and Fixed Lifting Column for Big Bag Discharging

EMPTYING SOLUTIONS FOR BIG-BAGS



Big Bag Discharge Station

The Big Bag Emptying Station is a modular system used to discharge quick and complete Big Bag emptying. products from Big Bags (also known as Bulk Bags or FIBC). It is available Upon request, the Big Bag Unloading System can be placed on load cells in different configurations suitable for different application types.

stainless steel. It consists of two main parts: the base structure fixed to A Big Bag Docking Station creates a closed system for product the ground and a lifting frame that supports the Big Bag.

The upper part of the frame has two configuration types for the Big Bag connection: one using the forklift and an alternative structure to discharge phase. support the beam, where there is an electric hoist motor with a cruise to support the Big Bag.

the Big Bag is placed. During the product suction phase, pneumatic ATEX classified zones. actuators in pairs drive the massagers into rotary motion, allowing

that measure and visualize the actual weight remaining in the bags and The frame can be made of painted steel or satin-finished AISI 304 that of the product transferred and/or dosed into the receiving system. unloading that prevents any powder or dust exposure into the atmosphere and ensures maximum operator protection during the

The whole system is controlled by a PLC and designed under the Machinery Directive 2006/42/EC in correspondence with all safety Big Bag Discharge Station has pneumatic massaging paddles on which regulations. Upon request, it can be manufactured for applications in

Frame with Big Bag hoist



Used to lift and position Big Bags without using the forklift





Used to attach and support the Big Bag

Lump Breaker



Used for crushing clumps, chunks, or blocks into smaller, more manageable sizes

Weighting unit



Used to measure unloading and dosing operations





INSTALLATIONS & APPLICATIONS



Frame with sockets for forklift connection Used to lift and position Big Bags without using the forklift



Side massagers





static





open





It is installed on the Big Bag Discharge Station outlet point and creates a closed system, allowing direct powder transfer by vacuum from the Big Bag into the other machinery

Integrated Big Bag Unloading System with Vacuum Conveyor for Bin



Big Bag Discharge Station installed on Ioad cells



Big Bag Discharge Station for feeding reactor using Vacuum Conveyors



Big Bag Discharge Station for feeding dissolvers using Vacuum Conveyors



Fixed / Mobile Big Bag Lifting Column with Mobile Docking System



This type of AGR-LIFT series Lifting Column is designed and manufactured to lift, support, and handle the Big Bags.

The Lifting Column for Big Bags finds its primary applications in the chemical, pharmaceutical, and food industries, especially in those powder handling processes where there is a need to optimize the production flow and prevent "cross pollution" cases. Upon request, it can be manufactured for installation in dusty environments and ATEX classified zones.

The Column features a simple design consisting of an external stainless steel AISI 304 structure and an internal galvanized carbon steel load-bearing structure with the attached supporting arm.

The Lifting Column for Big Bags is equipped with a Mobile Docking System consisting of two locking handles. Thanks to a clamping mechanism, it ensures complete powder containment while unloading Big Bags. This Big Bag Docking System is available in manual and automatic versions and can also be integrated with the CIP system.

All functions of the Lifting Column (vertical and horizontal movements, in addition to all customizable specifications) are managed automatically by the control panel installed on board. The rotation and lifting systems are regulated by superior, intermediate, and inferior limit switches adjustable according to the specific installation and application process requirements.

All AGR-LIFT series Lifting Columns are fully compliant with cGMP and UNI EN ISO standards. Upon request, the columns can be manufactured for installations in powdery surroundings and/or ATEX classification zones, adhering to all relevant safety requirements.

Docking system

Mobile Docking System



Mobile Lifting Column for Big Bag Unloading



Mobile Closing System integrated with CIP

