



Lifting Column for VTS (Vacuum Transfer Systems)

Lifting Column for Drums

Lifting Column for Bins/IBC Containers

LIFTING COLUMNS



Lifting Column for Vacuum Transfer Systems

Single Column Lifter for Vacuum Conveyor is an AGR-LIFT series Lifting Column type used primarily to lift and support Vacuum Conveyors, allowing for easier connection to other machinery. The Column has the same structure and working principle as the standard AGR-LIFT series Lifting Columns.

All functions of the Lifting Column (horizontal and vertical movement in addition to all customizable technical specifications) are managed automatically by the control panel with the PLC or pneumatic system. The lifting system has superior, intermediate, and inferior limit switches, allowing for precise manipulations when connecting to other machinery and positioning over the charging point. All Lifting Columns can be manufactured in compliance with ATEX regulations.

Applications

Lifting Columns for Vacuum Conveyors are mainly used in the following scenarios:

- loading the machinery in which the charging point is positioned high above the ground;
- loading the machinery when the direct installation of the vacuum conveyor is impossible;
- loading sachet filling machines, horizontal ribbon mixer, dryers, packaging machines, etc. automatically (not manually) by creating a closed system for product conveying;



Fully automatic vertical rotational movements and Conveyor operations managed via a control panel

In addition to the stationary version, AGIERRE manufactures Mobile Lifting Columns equipped with a wheeled structure to easily move the Vacuum Conveyor, enhancing further the versatility of its applications:

- positioning Conveyor where a fixed installation is not feasible or impractical using the Vacuum Conveyor in several different applications in multiple production areas.



Lifting Column for Vacuum Conveyor for Drum Loading by Mill



Lifting Column with Vacuum Conveyor for Plate Filter Loading



Automatic Mobile Lifting Column for Vacuum Conveyor

Lifting Column for drums

Lifting Column for Drums is mainly used to lift, rotate, position, and discharge cardboard, plastic, and metal drums of different sizes. It has the same structure and working principle as that of standard AGR-LIFT series Lifting Columns: the lifting system comprises a wind-screw mechanism driven by a self-braking gear motor.

All functions of the Lifting Column, including rotational and vertical movements, drum overturning, and activation of the discharge valve (installed on the drum cone), are managed automatically by the control panel that could have a pneumatic, electro-pneumatic, or PLC operating system. All Lifting Columns can be manufactured in compliance with ATEX regulations.

Applications

Drum Lifting Columns are primarily used to charge and feed powders by gravity into packaging or processing equipment.



Motorized Lifting Column for Drums Discharge through Sieve



Fixed Automatic Drum Lifter for Reactor Loading

Stationary Automatic Drum Lifter for Packaging Machine Loading



Lifting Column for Bins

Pharma Bin Lifting Column is designed for lifting, moving, supporting, and positioning pharmaceutical bins (also known as IBC containers). Its purpose is to create a closed system for powder transfer processes to prevent powders from escaping into the external environment and thus avoid "cross-pollution" and "cross-contamination".

Applications: The Bin Lifter is primarily used for discharging and transferring materials from Bins of different shapes and sizes into various processing (mixers, blenders, driers, coaters), packaging (capsule filling machines, tablet presses, blister lines), and storage equipment (bins, drums, containers).

Working Principle: The Column Lifter for Bins uses a mechanical lifting system with a worm-screw mechanism driven by a self-braking gear motor. The arm with a Bin gripping system can be customized according to the Customer requirements. The control panel installed on the Lifting Column automatically manages all of its operations, including vertical and horizontal movements, discharge valve control, and vibration system activation, in addition to the other customizable functions.



Automatic Lifting & Rotation



Automatic Vibrator Activation System



Automatic Valve Opening System

Features: The Pharma Bin Lifter has a simple and handy design with an integrated vibration system and high-quality surface satin finish for internal and external surfaces:

- The external structure: AISI 304 stainless steel casing;
- Internal supporting structure: galvanized carbon steel.

The column height and rotation (automatic or manual) can be personalized according to specific Customer requirements.

Compliance and Safety: Column Lifter has a safety system consisting of a second nut triggered when the first nut wears out, accompanied by an "anti-fall protection" warning light activation on the control panel. In a row with all AGR-LIFT series Lifting Columns, the Lifters for Pharma Bins 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.



Bin Lifting Column connected to the sachet packaging machine

Stationary Bin Lifter with brushless motor for the correct position of the Split Valve



Lifting Column for Bin with an integrated vibration system