



MIX S.r.l.

MIXING SYSTEMS AND
COMPONENTS FOR PLANTS

www.mixitaly.com

Conveying Division

Loading bellows



ATEX RANGE AVAILABLE

Quality and Innovation

TRANSPORT

MIX s.r.l. is specialized in the research, design and construction of loading bellows in different solutions:

- with preparation for connection to a dedusting system
- with built-in filter

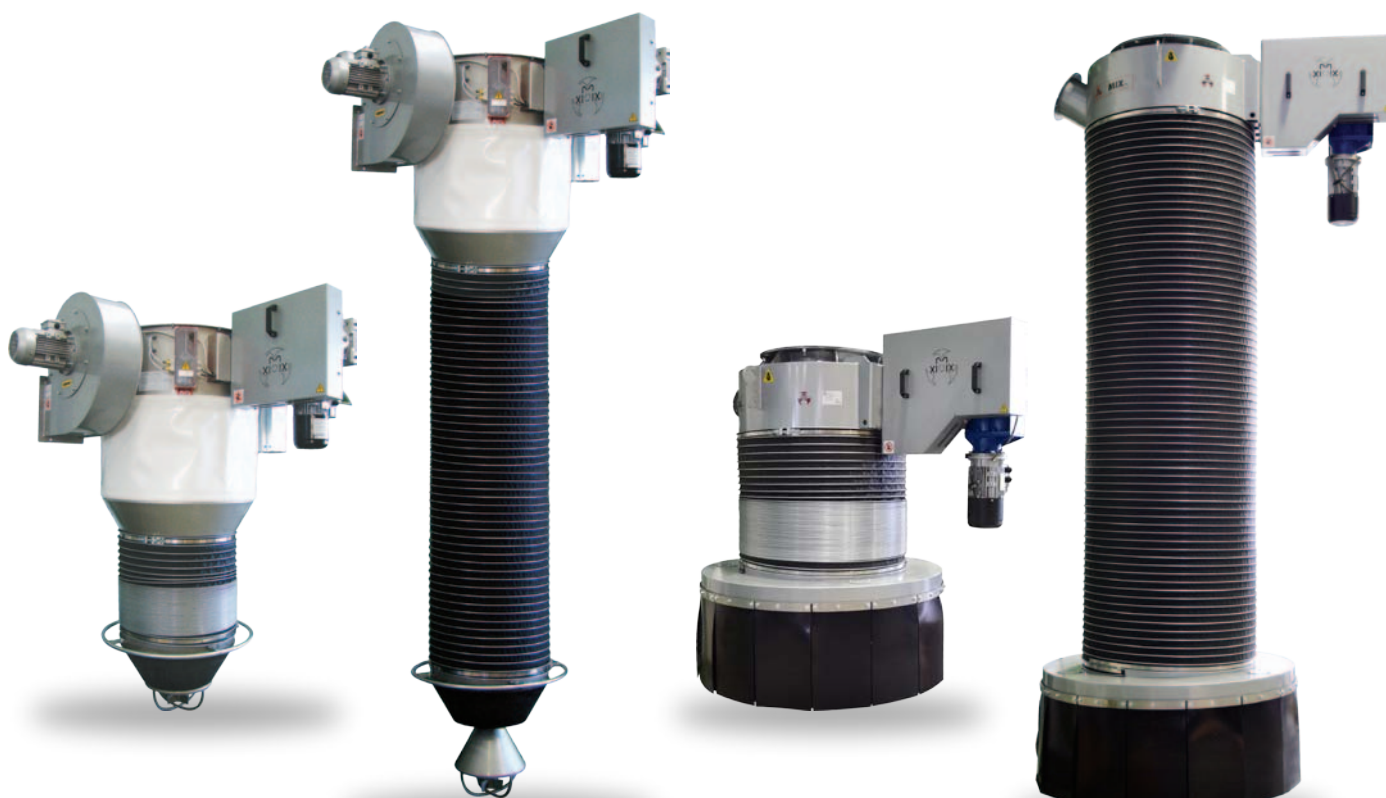
Construction materials: stainless steel AISI304(L) - AISI316(L) - AISI316(Ti), carbon steel and wear-resistant steel

The XIMIX© loading bellows, with product conveying system with double duct or with internal tubes and outer duct, are proposed in different versions and design solutions in reference to the materials to be transported.

To complete the supply of loading bellows, various accessories are available:

- Manual control with winch
- Capacitive level indicator
- Vibrating level indicator
- Electrical control panel
- Junction box
- Butterfly valve / Slide valve on top
- Flap for the fan

The loading bellows and accessories comply with the **European Directive 2006/42/EC**.



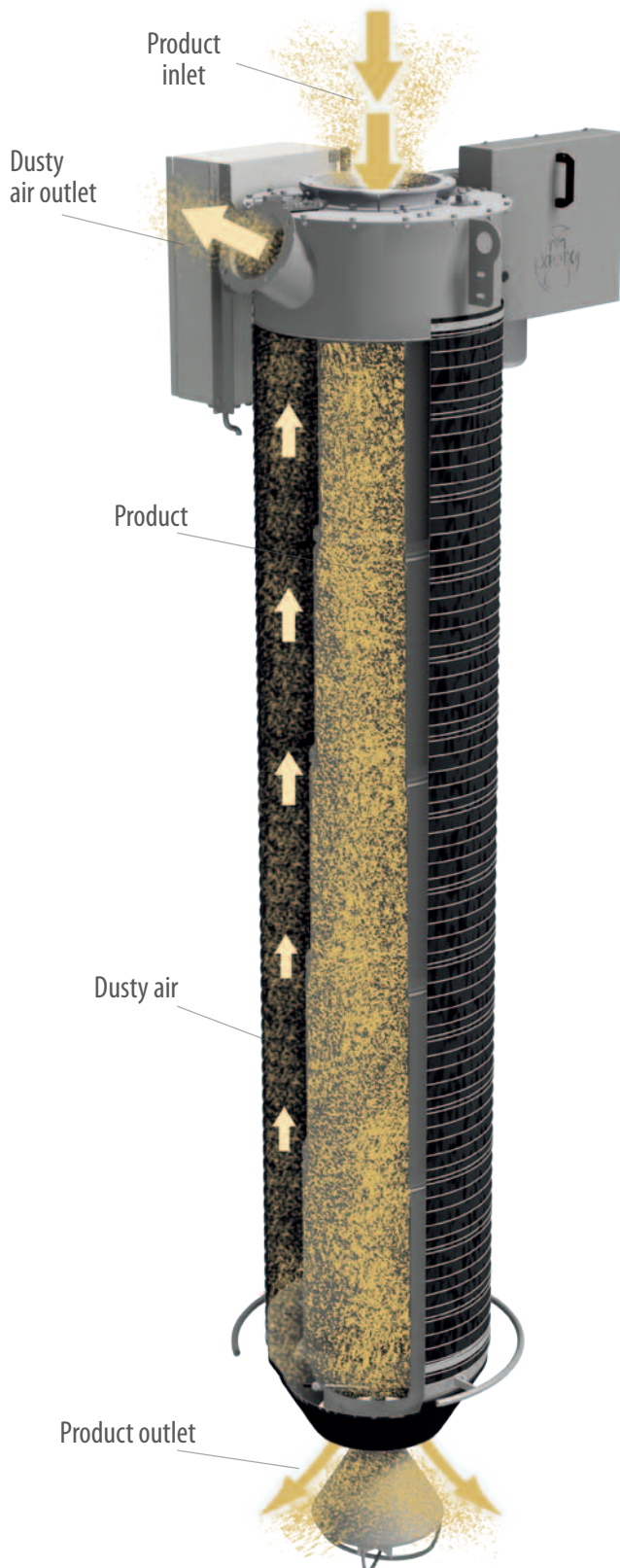
The special features and advantages of the XIMIX® loading bellows are their efficiency, low maintenance costs, modularity of the components and their safety in use.

- ✓ Constant product flow thanks to the internal telescopic tubes.
 - ✓ Efficiency and reliability over time are ensured by the high quality of the materials used and in particular by the components in contact with the product subject to wear and tear.
 - ✓ Low maintenance costs, achieved through advanced technical solutions and limited and simple maintenance.
 - ✓ Correct positioning guaranteed by inductive limit switches.
- Further precision and safety of positioning are obtained with the self-braking motor.

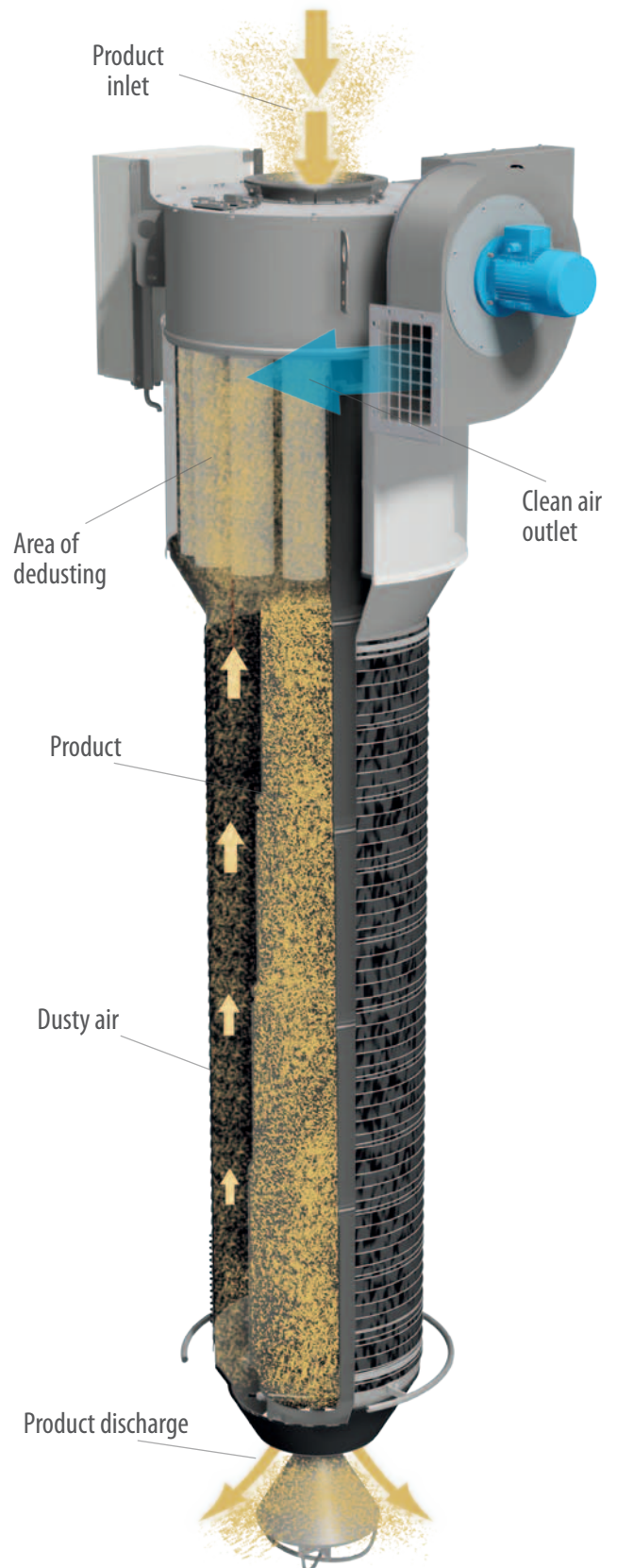
Functioning principle

The XIMIX® loading bellow is used to transport and convey powder and granule flows in most industry sectors: Food, Chemistry, Construction, Ecology, Food. The most frequent uses are under the outlet cone of silos, hoppers, mechanical and pneumatic conveyors, weighing systems, etc.

WITH PREPARATION FOR GENERIC FILTER



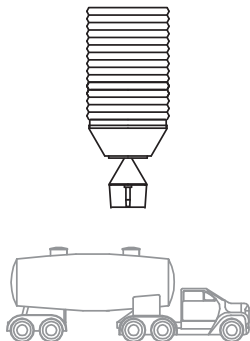
WITH BUILT-IN FILTER COMPLETE WITH FAN



Product description

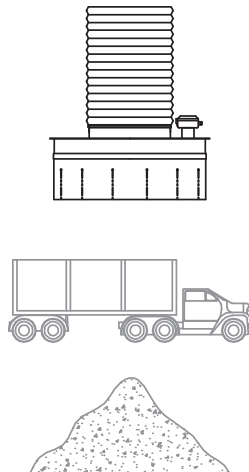
Loading Bellows for closed loading

Loading bellows for closed tank trucks, suitable for conveying products (powder, granules and fibers) from the storage containers to tanks.



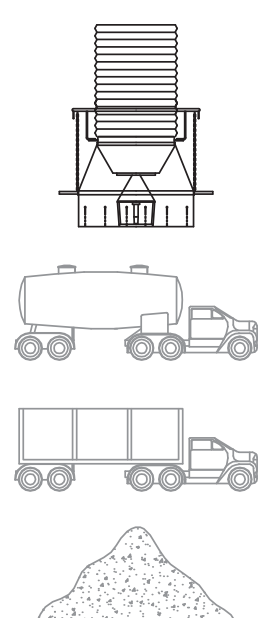
Loading bellows for pile loading

Loading bellows suitable for conveying products (powder, granules and fibers) from the storage containers to open trucks or body wagons, creating piles of high height.



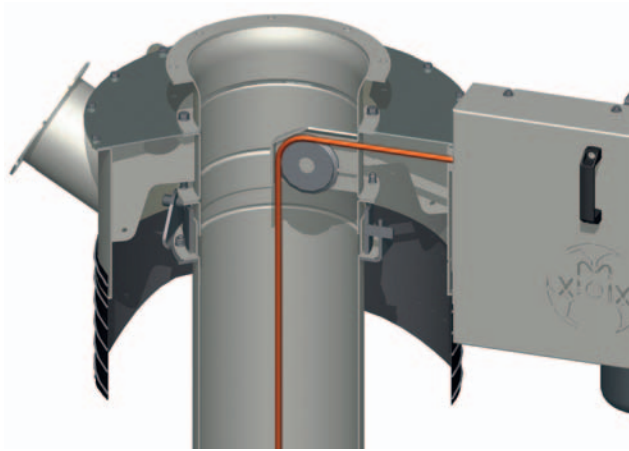
Loading bellows for mixed loading

Loading bellows for combined loading, suitable for conveying products (powders, granules and fibers) from the outlet of the storage containers to tanks, trucks or other containers.



Characteristics

EXTENSION CABLES

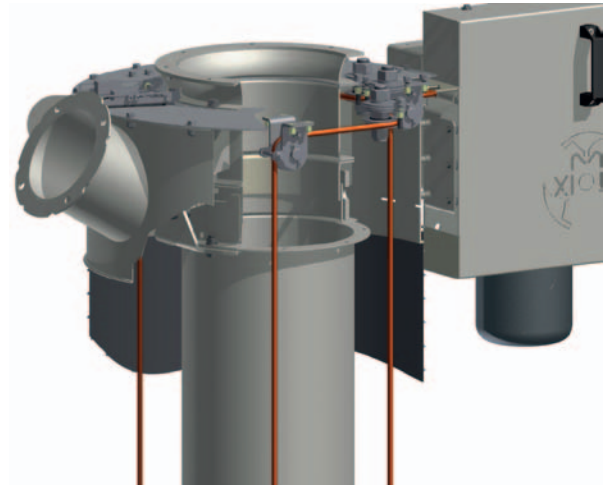


1 extension cable:

Simple, but sturdy design.

Suitable for all non-sticky and non-food products.

CLOSED - MIXED LOADING



3 extension cables:

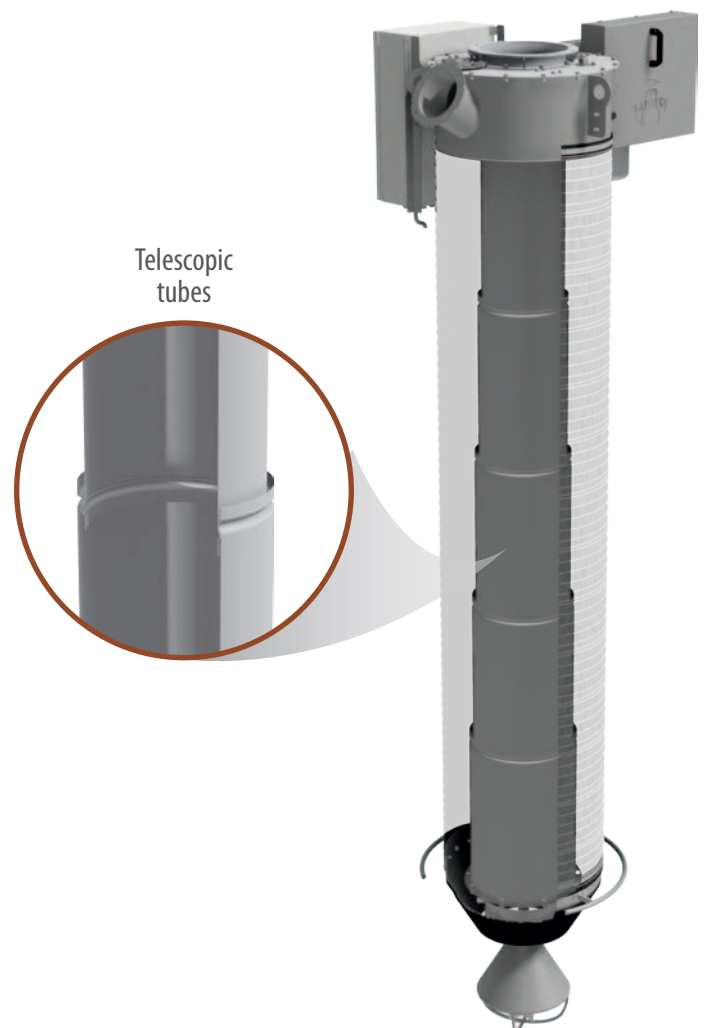
For all types of products.

CLOSED - PILE - MIXED LOADING

PRODUCT CONVEYING TUBES

The version with telescopic tubes is advantageous compared to other solutions:

- grants a limited product flow towards the filter (the tolerance between the ribbed tubes is lower than the cones solution, and significantly reduces the quantity of ascending product)
- favors the discharge of the product (the increasing diameter of the tubes reduces the density of the product and facilitates its descent)
- reduces the wear (the tube with the increasing diameter creates a reduction of the contact surface and a lower concentration of the product as it approaches the discharge)
- ensures the correct extension or retraction of the tubes (the tube spacers guarantee constant self-alignment)



Electric control panel and the CE regulations

ELECTRIC CONTROL PANEL

The MIX electric control panels type KQR provides the plant engineer with:

- 1 "normally closed dry contact" to detect the THERMIC INTERVENTION
- 1 "exchange dry contact" to detect that the loading bellow is COMPLETELY UP
- 1 "normally open dry contact" to detect that the DISCHARGE CONE IS CLOSED
- 1 "normally open dry contact" to detect that the ROPE IS LOOSE



PARTLY COMPLETED MACHINE

Declaration of Incorporation



Junction box with electric connection to the loading bellows

MACHINE

Dichiarazione di Conformità CE

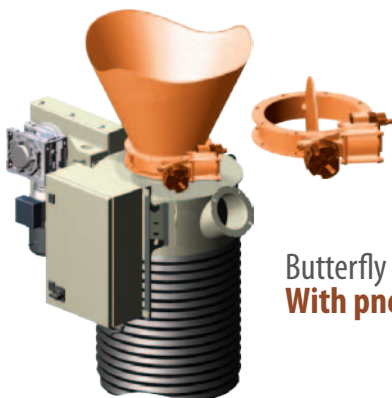


Installed junction box and electric control panel supplied separately

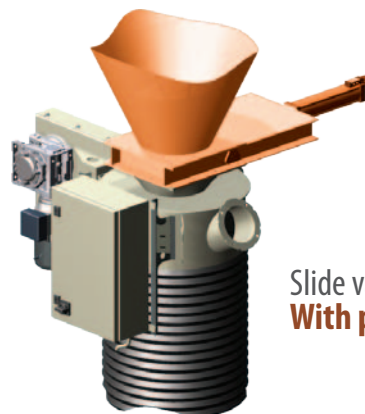


Electric control panel and push-button panel

FEEDING OPTIONS WITH MIX CONTROL PANEL



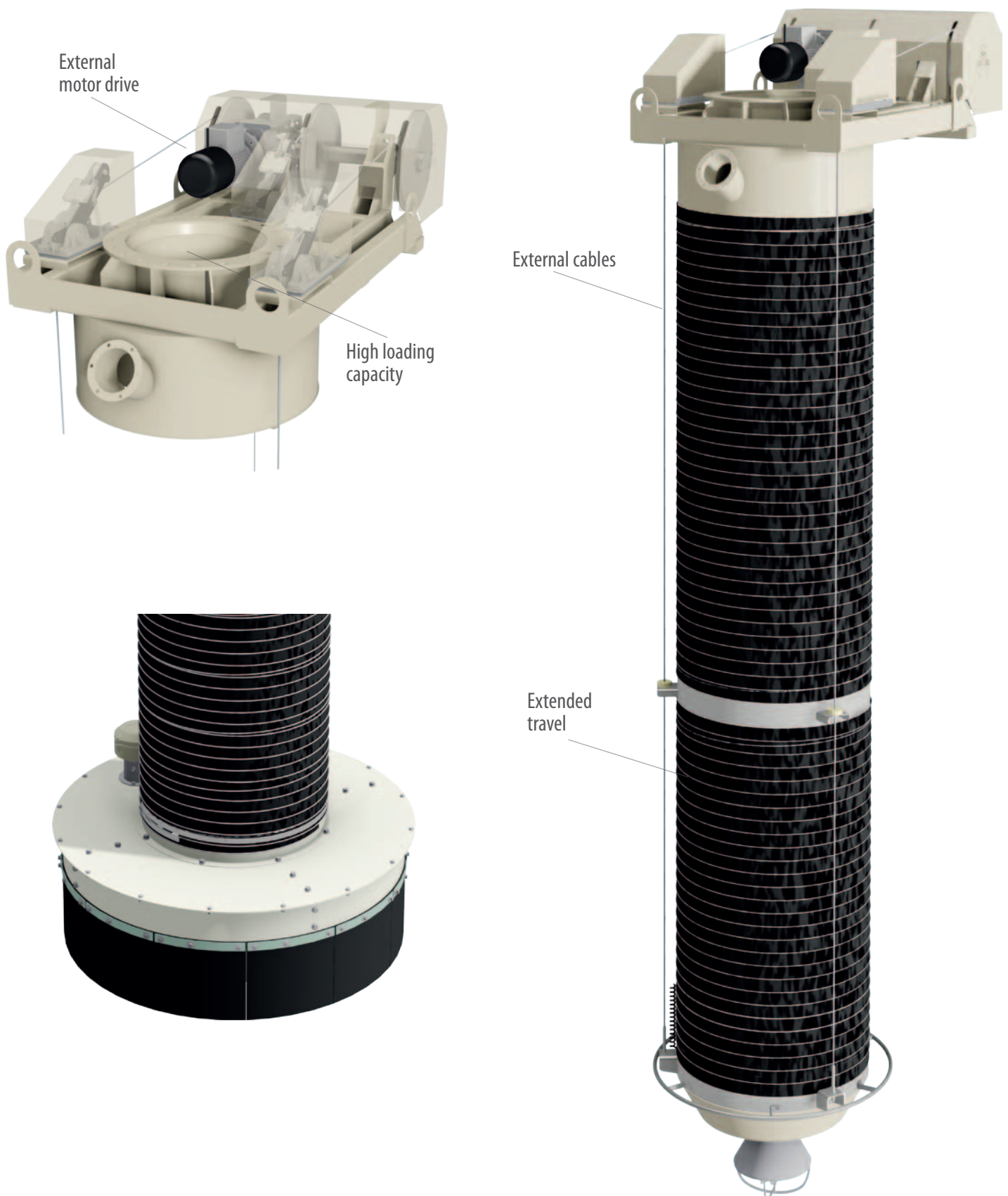
**Butterfly valve
With pneumatic control**



**Slide valve
With pneumatic control**

Loading bellows for high throughput

- ✓ Sturdy design
- ✓ Cables on the outside for easy maintenance
- ✓ Construction according to customer needs
- ✓ Suitable for high throughput and/or long travels, used for loading of freight wagons and ships



CONVEYING SYSTEMS AND COMPONENTS FOR PLANTS

QUALITY
SERVICE
TECHNOLOGY
INNOVATION

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