



LUTENA-VAKUUM

Easy Conveying



VACUUM CONVEYING TEC.



DUST AND PARTICLE FILTERS



CONTROL UNITS



PNEUMATIC SUPPLIES



BIG-BAG STATIONS



Greater productivity in industrial materials conveying through modern vacuum technology.



Heavy lifting and dusty working premises are now consigned to the past.

State-of-the-art vacuum technology is used to transport a wide range of materials. In principle, this involves the same technology as in a vacuum cleaner – with the difference lying only in the goods to be transported, the applications and the class rating. Increase your productivity by means of more effective materials transport.

In vacuum conveying the transport takes place inside a completely closed system. Heavy lifting, dusty processing rooms and other sources of contamination belong to the past.

Individual configurations!
Give us a call on: +49 [0]4181 / 39502

The principle of vacuum conveying in detail

A vacuum pump powered by compressed air (A), which functions on the Venturi principle, and therefore has practically no moving parts, generates the vacuum.

When the bottom valve (B) closes, a vacuum is created in the material container (C) and in the transport line (D).

The material is transported from the feed station (E) through the transport line to the collecting vessel.

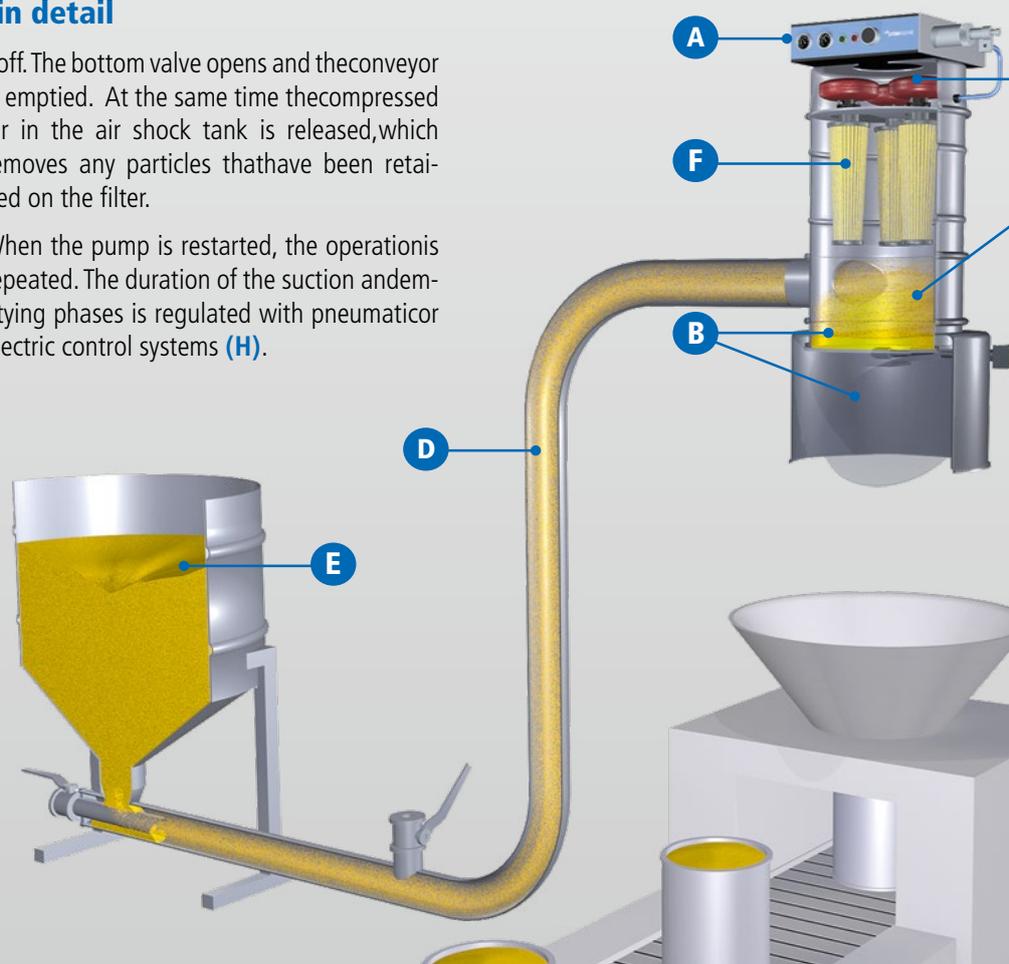
The effective filter (F) prevents dust and smaller particles from entering the pump and the surrounding air.

While the material is being transported, the air shock tank (G) is filled with compressed air.

When the desired quantity of material has been reached, the vacuum pump is switched

off. The bottom valve opens and the conveyor is emptied. At the same time the compressed air in the air shock tank is released, which removes any particles that have been retained on the filter.

When the pump is restarted, the operation is repeated. The duration of the suction and emptying phases is regulated with pneumatic or electric control systems (H).



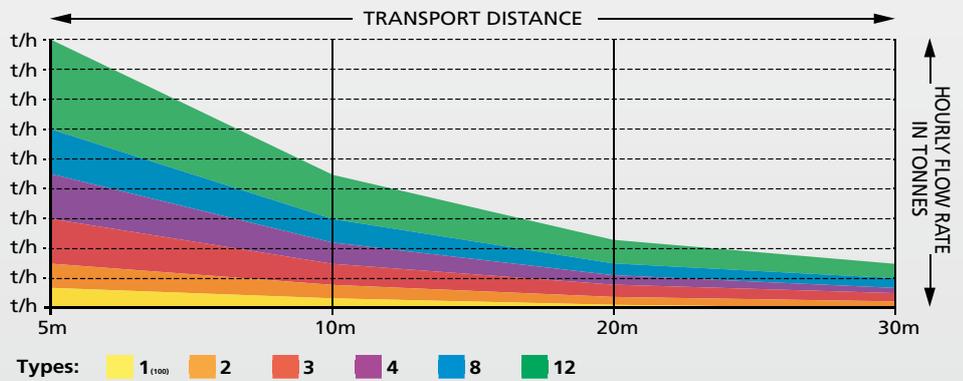


The right performance range for your tasks



The design dimensions of the conveying system depend on the properties of the material to be conveyed. Use the material properties to find the appropriate solution.

- fluidity/angle of repose
- bulk density
- wear/abrasion
- particle size (distribution, shape, density, hardness)
- sensitivity to moisture
- risk of explosion
- level of danger/toxicity



Use the transport distance and the weight of the bulk material to determine the class rating. We will be glad to meet you on site to advise you on a tailormade solution.

G

C



The unbeatable advantages of vacuum conveying:

- easy installation
- dust-free conveying
- ease of cleaning
- minimal maintenance
- automatic filter cleaning
- low noise level
- low energy consumption
- fully pneumatic operation and control
- flexible modular system

Its versatile applications make vacuum conveying an efficient investment

Modern vacuum convey technology offers numerous benefits when compared with other solutions. Particularly when occupational safety, hygiene and material loss are at stake. For substances in powder and fibrous form as well as when dealing with solid chemicals and foods, there is no alternative to vacuum conveying. The modular form of construction enables this technology to be combined simply with existing transport solutions.

Our systems offer a high level of operating safety and can be integrated into almost every existing process.

After analysing your production processes and the existing site conditions, we will offer you tailor-made solutions. The individual modules of our systems use state-of-the-art technology and are especially low in maintenance. The investment pays for itself after only a short time.

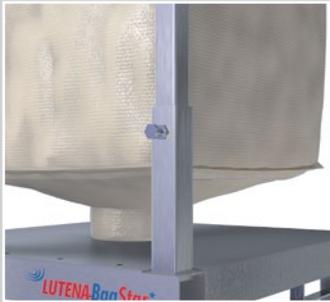
Allow us to give you our advice without any obligation. Return the fax reply form or simply contact us by telephone. You will receive an offer without delay or we will advise on site at your production premises.



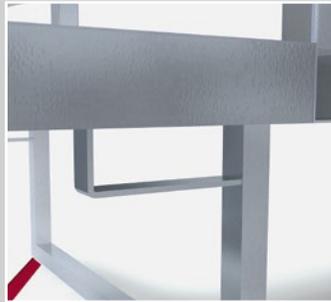
The Big Bag Station for vacuum conveying

This practical Big Bag Station for vacuum conveying is one of our latest products. It offers several advantages compared to a smaller silo. The filling funnel, pipe connections, filters and taps are already pre-installed. This means that it can be easily connected directly with the pipeline of a vacuum conveying system. In addition, LUTENA-Bag-Star is highly versatile in terms of its usage, is easy to transport and is also very cost-effective.

Besides the standard model, all conceivable modifications are possible. These include modifications relating to the size, loading capacity, safety and hygiene regulations as well as any process conditions. In each case, you receive a turnkey system that is ready for immediate use. Dusty processing rooms and other sources of contamination are a thing of the past.



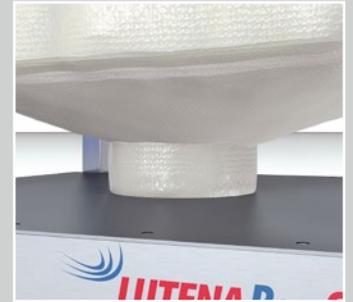
Height-adjustable support rods



Option of forklift shoes for transport with a forklift



Integratable connection for conveyor adapter



Solid product retaining plate with adapted opening for independent, dust-free connection of the Big-Bag outlet.



The practical benefits of LUTENA-BagStar:

- Can be used directly for vacuum conveying
- Portable and easy to transport
- Individual configurations
- Low costs



Freely configurable to the customer's requirements



DUST AND PARTICLE FILTERS

Dust and particle filters of the highest standard

Our many years of experience in the field of vacuum conveying technology have led to the development of special filters for the various models of vacuum conveyors.

Examples include stainless steel filters made of woven material, ideal for pharmaceutical, food and chemical applications.

PTFE-coated filters with a grade of filtration of 0.5 µm are also available. These are used for very fine products such as toner powder. A wide range of materials and filters can be supplied.



CONTROL UNITS

The Lutena-Vakuum control unit

All of our vacuum conveyors can be delivered with and without a control unit. Conveyors without a control unit can easily be retrofitted.

Individual configurations!
Give us a call on: +49 [0]4181 / 39502



CONTROL UNIT CCLU

To control the feeding and discharge times with battery piezo timing module.



CONTROL UNIT CCLUR

(Programmable logic controller SPS)

The CCLUR processed level messages from Min / Max and controls the discharge aid and the pipe emptying.



PNEUMATIC SUPPLIES

Pneumatic, hydraulic and industrial equipment

We supply everything required for using vacuum and compressed air technology in industry. You can order accessories and spare parts from us. In addition to this,

you will also find many other items from the field of industrial supplies, tools and consumables in our catalogue and online shop.

Up to 100,000 different items!

- pipe junctions
- threaded fittings
- coupling technology
- hoses, pipes, clips
- shut-off valves
- control, measurement, processing
- valves, cylinders, vacuum
- industrial equipment
- tools



Katalog anfordern:
Tel.: +49 [0]4181 / 39502

Online bestellen:
shop.lutena-vakuum.de



Dipl.-Ing. Kay Haegermann

Reliability has been creating trust – for more than 15 years

As a modern company based in the business location of Hamburg, we have been serving companies throughout Germany for a number of years. The reliable support that we offer our clients and the development of our own patented engineering solutions have enabled us to establish a name for ourselves.

As specialists in industrial vacuum conveying, we are regarded as the first port of call for production optimization and also for assistance in the development of completely new plants. New innovations and the extension of our product range will ensure that we will remain an expert partner for our clients in the future as well.



Advice

Telephone support and orders:

+49 [0]4181 / 39502



Online-Shop

Order items from this catalogue online:

shop.lutena-vakuum.de



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