

# AERO-LIFT VACUUM TUBE LIFTER



## Material handling

flexible  
gentle  
versatile  
efficient



# AERO-LIFT vacuum tube lifter: The all-rounder for almost every application

Be it boxes, bags, drums or wood panels. Be it cabinets, enclosures or crates. Be it in the food processing industry, in chemical companies or a logistics company: Vacuum tube lifters from AERO-LIFT facilitate work in almost all areas of application and can improve the workflow in almost every sector. This saves time and ensures that your employees have a pleasant workplace. And it motivates and makes processes more efficient.

The major advantages of AERO-LIFT vacuum tube lifters are obvious – **Try and discover them!**

- ✓ Even **large loads of up to 300 kg** can be moved easily and flexibly by only one person. They no longer have to be dragged, but almost „float“ to their destination.
- ✓ Boxes, drums and even bags can be handled with the aid of vacuum technology and thus transported **without suffering damage**.
- ✓ The numerous options such as adjustable operating handles further increase the **range of applications**: While turning or swivelling the product to be transported, you can reach precise high levels in your warehouse or easily feed your downstream machine tools.
- ✓ A wide variety of **different suction cups** adapts the vacuum tube lifter optimally to your applications.



# Flexible and material-friendly handling method

## Wide variety of industry solutions

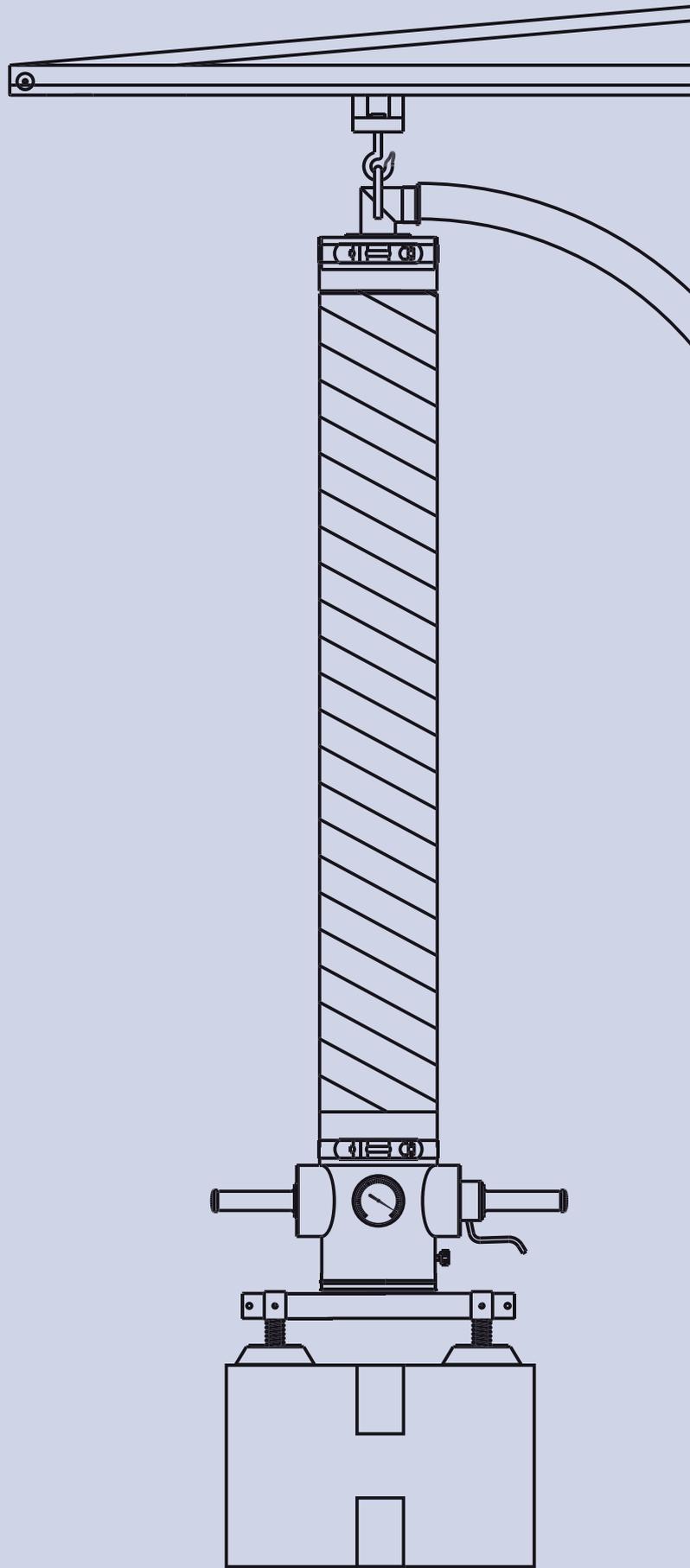
Drums    Pharmaceutical    Boxes    Food stuff    Logistics  
Plastics    Particle boards    Shipment    Bags    Electrical  
Glass    Packaging    Enclosures    Furniture    Chemicals  
Sheet metal    Canisters    Food & Drug    Wood    Lumber



# AERO-LIFT modular system: flexible and secure

The proven AERO-LIFT modular system applies to all of our products, also including the vacuum tube lifter product line. Different components like suction cups and mechanical holding devices, options or peripheral devices facilitate a fast re-fitting to reflect new conditions. Are you restructuring your workshop? Are you planning to extend the scope of application of your vacuum tube lifter? Are you switching materials? No problem. AERO-LIFT vacuum tube lifters can be refitted and retrofitted individually and as a result are ready to reliably and quickly handle the new tasks again. With all of the individuality of a modular system we still attach great importance to safety. For instance, each and every one of our components are subject to the same high safety requirements on materials and workmanship and we make sure during retrofitting that the corresponding components are able to optimally work together.





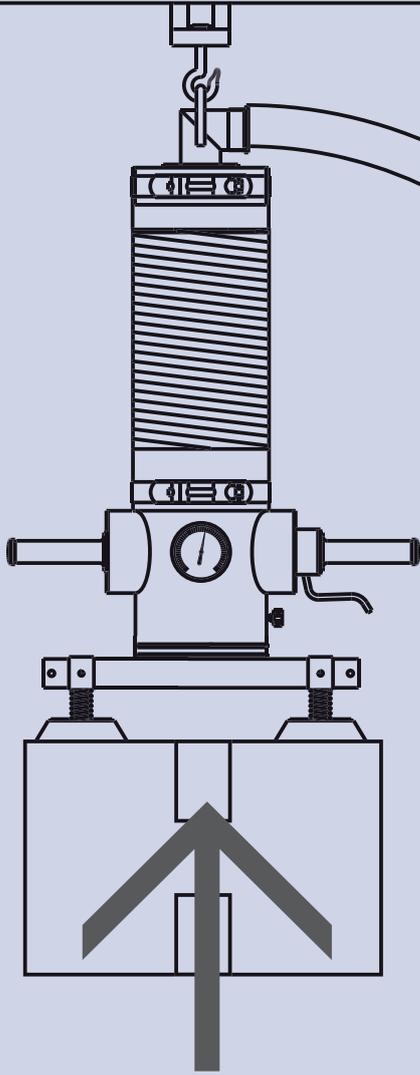
## Basic configuration

- ✓ continuously variable SUCTION/LIFT/LOWER/RELEASE with the aid of an one-hand throttle lever
- ✓ safety check valve, prevents a load from being dropped in case of power outage
- ✓ standard safety interlock, i.e. the load cannot fall due to operating error when the load is lifted
- ✓ powerful, two-stage high-performance vacuum blower
- ✓ multilayer braided lift tube with cured-on sleeve ends
- ✓ ball-bearing-mounted, continuously rotatable vacuum tube lifter
- ✓ control head and suction cup shot blasting and powder-coated
- ✓ vacuum feed tube (connection blower-lift tube)
- ✓ filter unit to protect the blower (3mp)

## Additional options (see pg. 12)

- + sound-proofing enclosure for reducing sound to 65dB/A
- + quality of food certificate for special seal (pharmaceutical / food industry)
- + two-component seal for uneven surfaces
- + extended, continuously adjustable manipulation handle for an ergonomically comfortable operating position, even at extreme working heights
- + rigid extended control handle for large-scale transport goods
- + individual holding units or suction cups
- + mechanical or pneumatic swivelling unit
- + radio control for switching on and off the blower
- + complete stainless steel version
- + rotating unit for stacking in different positions
- + quick-change coupling for split-second and tool-free replacement of suction cups
- + lift tube cover
- + submersible cylinder
- + special solutions for low overall heights

safe handling  
maximum mobility  
up to 300 kg  
working efficiently  
easy to use



## Carrying capacity for every requirement

MINI-LIFT 30	30 kg
FLEX-LIFT 35	35 kg
MULTI-LIFT 50	50 kg
MAXI-LIFT 75	75 kg
MAXI-LIFT 100	100 kg
MAXI-LIFT 200	200 kg
MAXI-LIFT 300	300 kg

You will feel as if you are able to defy gravity when you use an AERO-LIFT vacuum tube lifter. One employee can effortlessly lift large loads on his own and immediately move them by using the one-hand control handle, turn around on one's own axis, swivel, if need be, and put a load down at another location. Different safety mechanisms prevent a product being transported from being dropped in case of a power failure or even operator error before reaching its destination. In other words, we have made safety a top priority and taken steps to guarantee it.

## Quick, simple, ergonomic: **The FLEX-LIFT**



Be it bags, drums or boxes, the FLEX-LIFT from AERO-LIFT is able to transport almost everything. Loads weighing up to 35kg can easily be lifted, transported and rotated. That makes work quick, simple and ergonomically correct.



# FLEX-LIFT Ergo Plus+

The new FLEX-LIFT Ergo Plus has an angled handle that enables the operator to be in an ergonomically comfortable operating position, even at extreme heights, whether lifting and depositing.



Back-friendly lifting and lowering of a product being transported



Ergonomic even in case of depositing at heights

## Advantages:

- ✓ ideal for loads up to 35 kg
- ✓ back-friendly and ergonomically correct posture
- ✓ one-handed control lever that supports the natural movement of the hand
- ✓ short cycle times and quick stacking thanks to simple repetitive movements
- ✓ quick-change coupling for split-second replacement of the suction cup
- ✓ „Quick-Release“ function for a simple and quick release
- ✓ integrated vacuum meter
- ✓ integrated radio control (optional)

# FLEX-LIFT Variable

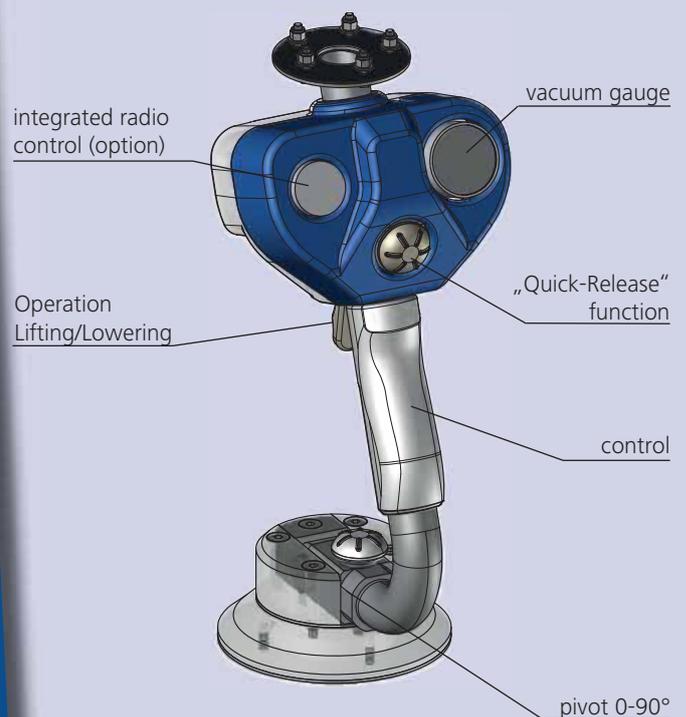
The FLEX-LIFT Variable can be, as the name indicates, adjusted variably. The handle, which is adapted to the natural movement of the hand, is easy to swing in the direction of the operator and swivel by 180°. In addition to that, it is ideal for both right and left-handed persons.



Operating position for right-handed persons



Operating position for left-handed persons



# Carrying capacity of up to 300 kg: AERO-LIFT vacuum tube lifter standards

All AERO-LIFT vacuum tube lifters fulfill the current safety requirements according to EN 14238 for „manually controlled load manipulating devices“ and thus ensure maximum safety for loads weighing up to 300kg. Even in case of a power failure, the load can be lowered safely to the floor.

From the smallest to largest vacuum tube lifters, we utilize high-quality and durable components to ensure a long-term

and safe production process for our customers.

Our trained service technicians will happily carry out the annual accident prevention inspection of the vacuum lifting equipment and tube lifters in accordance with BGR 500, even at your premises, and will thoroughly test your vacuum lifters once a year.



type	work load max. (kg)	lift height max. (mm)	lift speed	vacuum generator	lift tube Ø (mm)
MINI-LIFT 30	30	1700	0 - 50 m/min	Blower 3kW 400V / 50 Hz	120
FLEX-LIFT 35	35	1700	0 - 50 m/min	Pump VAL 40 T 400V / 50 Hz	120
MULTI-LIFT 50	50	1700	0 - 50 m/min	Blower 3kW 400V / 50 Hz	160
MAXI-LIFT 75	75	1700	0 - 50 m/min	Blower 3kW 400V / 50 Hz	175
MAXI-LIFT 100	100	1620	0 - 30 m/min	Blower 3kW 400V / 50 Hz	200
MAXI-LIFT 200	200	1520	0 - 30 m/min	Blower 3kW 400V / 50 Hz	250
MAXI-LIFT 300	300	600	0 - 30 m/min	Blower 4kW 400V / 50 Hz	300



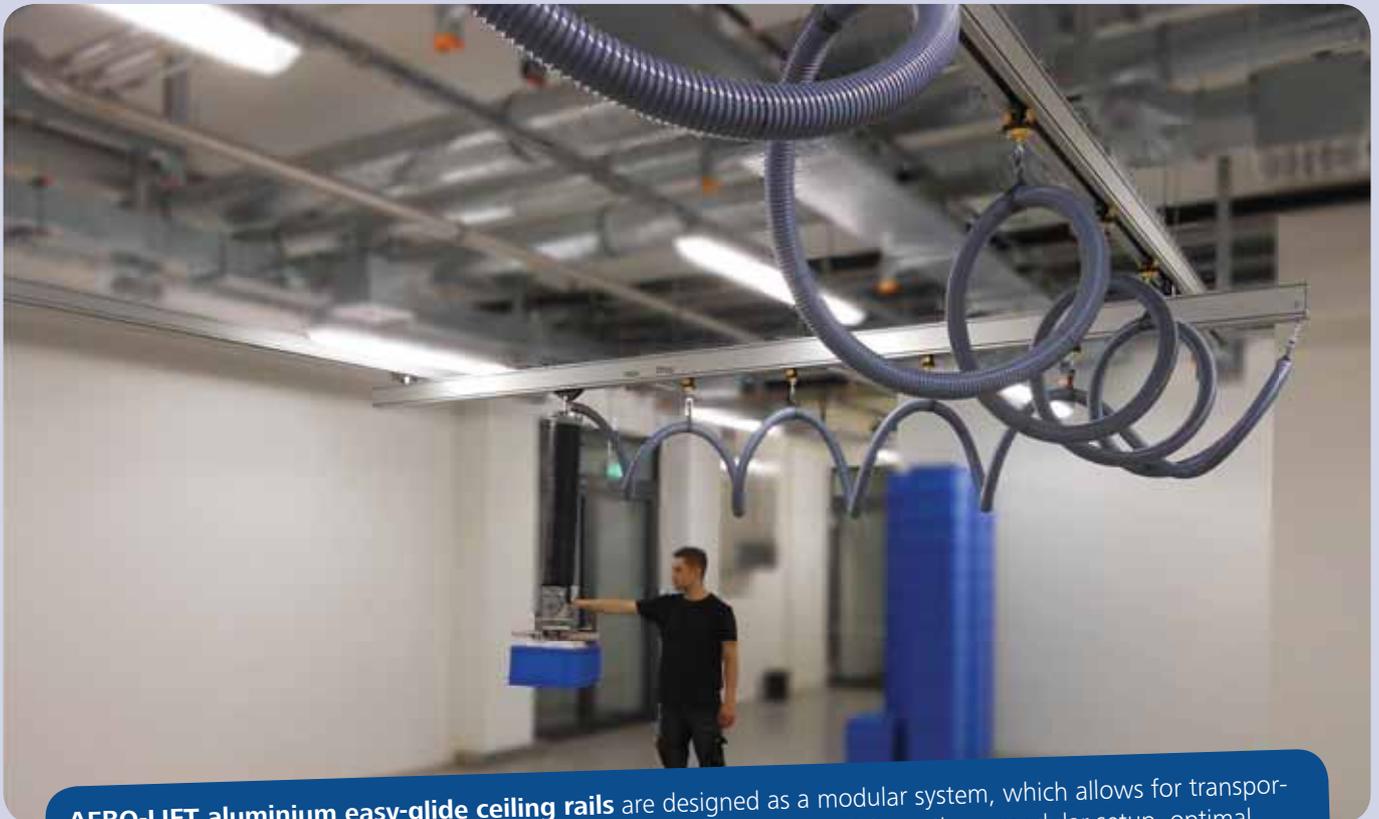
Food-safe suction cup



Vertical holding system for lifting of drums



Lifting of porous wood panels with extended control handle

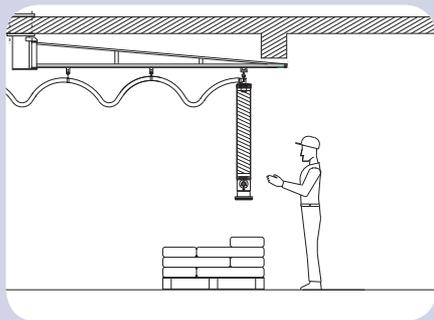
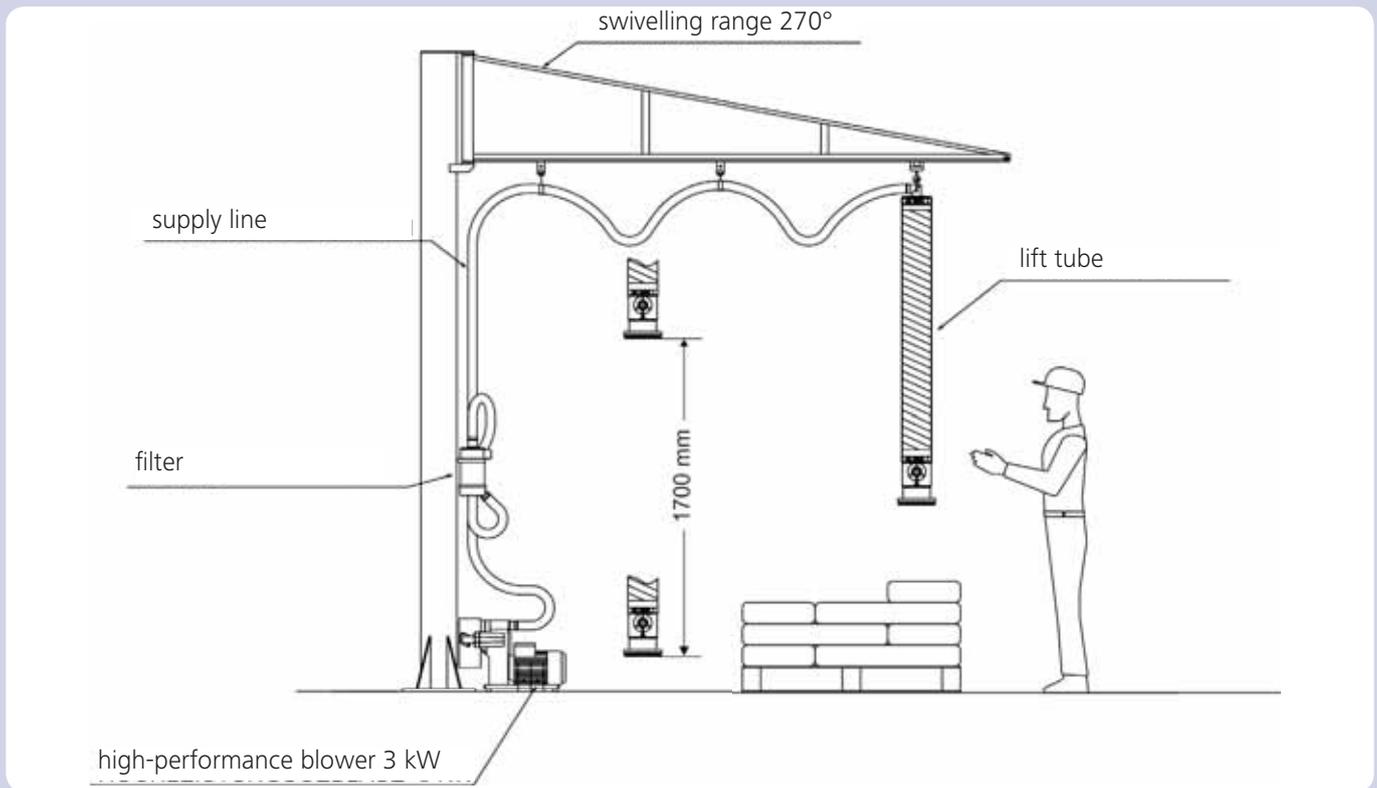


**AERO-LIFT aluminium easy-glide ceiling rails** are designed as a modular system, which allows for transporting materials over large spaces. The advantages: wide range of connectivity options, modular setup, optimal rolling characteristics of running gear, low net weight, and maximum ergonomics and energy efficiency. In short, this system is distinguished by outstanding, innovative components. By utilizing our ceiling-mounted rail systems, you raise the load handling system in your production shops, assembly and production lines or work stations, even in harsh conditions, to a whole different level. More information about AERO-LIFT peripherals can be found on the next page.

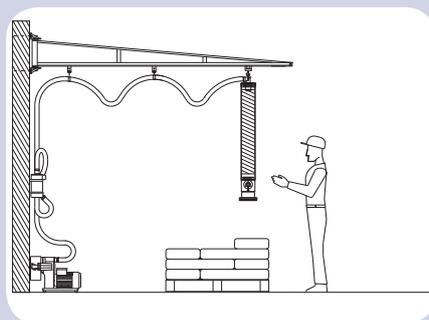
# Peripherals

Do more with your AERO-LIFT vacuum tube lifter by using the right peripherals. Pillar-mounted slewing cranes and jibs for wall or ceiling mounting, geared to your lifting equipment, increase the value of your vacuum tube lifter. With a clamping bracket for connecting to the existing supports, an articulated arm jib for unfavorable room conditions or rail systems, you can adapt the vacuum tube lifter to your work area. Our ceiling rail systems can easily cover, for instance, long distances in a workshop. A cost-effective work area can be flex-

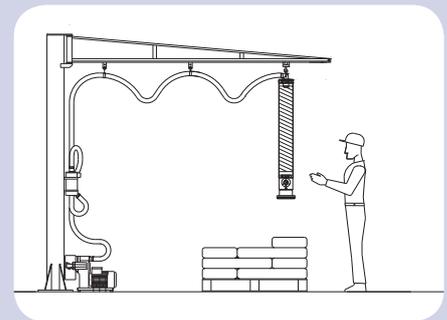
ibly set up by means of individual adaptation and low-wear components. A pillar-mounted slewing crane with a swivelling range of 270° can be delivered with different jib lengths and thus covers a large work area. A flexible solution thanks to the mobile base permits a use at several locations or can be moved, if need be, by using a lift truck or by rolling on castors, anchoring to the floor is not necessary.



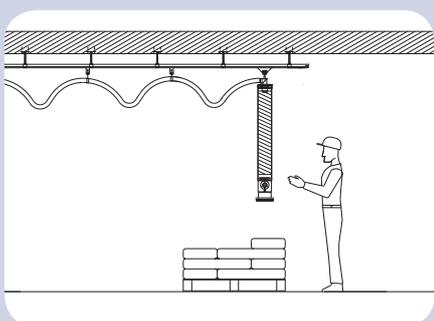
ceiling-mounted slewing crane



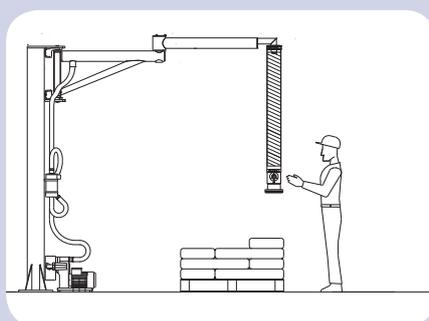
wall-mounted slewing crane



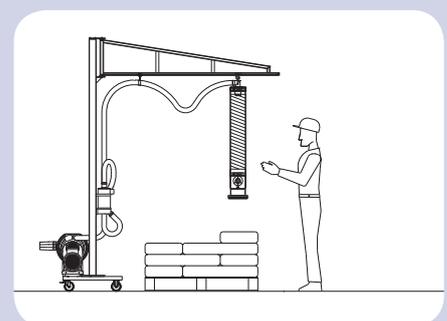
pillar-mounted slewing crane



ceiling rail system



pillar-mounted slewing crane with articulated arm jib



pillar-mounted slewing crane with mobile base

# Suction cups/ holders

We offer a wide variety of holding elements for every product to be transported and every application. Be it considerable uneven surfaces, inherently unstable products, bags not filled properly or boxes with strapping, the right holding elements

will ensure that the products can still be transported. With the quick-change coupling system, your staff is able to quickly switch holding elements to suit a wide range of products.



Drum lift, attached to the top of drum



Drum lift, attached to the side



Box lift



Pallet pickup



Suction cup system for 4 boxes



Paper coil



Box lift, lateral stabilization



Panel lift with pneumatic swivelling unit



Handling of chimney flue tiles



Handling of chimney flue tilesn



Bag lift of V2A design



Foodstuff handling

# Options / individual components

AERO-LIFT vacuum tube lifters are based on the simple basic suction/lift/lower/release principle. Many additional functions make your work easier and ensure a good ergonomic posture. Stresses due to stooping, lifting, and moving loads are eliminated for the most part.

Besides transporting products horizontally, the vacuum tube lifter can swivel loads in a variety of manners: Manually, i.e. by shear muscle and leveraging effect, or just by using the pneumatic system. By doing so, you are able to quickly and easily move large and heavy loads to where they need to go on your own. The adjustable operating handles also allow for handling bulky materials, e.g. lifting at great heights and placing in a warehouse. An extended operating handle can be used for handling panel materials or large-scale products that are to be transported. A small transmitter installed on the vacuum tube lifter allows the operator to conveniently switch the tube lifter on and off wirelessly. The blower can be housed in a sound-proofing box in order to reduce the level of noise.

Brackets for mounting the blower to a wall or pillar are also available as an option.

Would you like to use a vacuum tube lifter for different products? With the quick-change coupling option, your staff can easily and quickly switch out suction cups to suit the relevant application.

AERO-LIFT vacuum tube lifters of stainless steel design (V2A) are available specifically for the pharmaceutical and chemicals industries. A lift tube cover that is resistant to cleaning agents ensures that it is easy to clean the tube lifter.

These and other options can be found at [www.aero-lift.de](http://www.aero-lift.de).



Holding elements/ suction cups with quick-change coupling system



Operating knob in V2A with wireless transmitter



Adjustable operating handle in V2A



Manual pivoting with handwheel

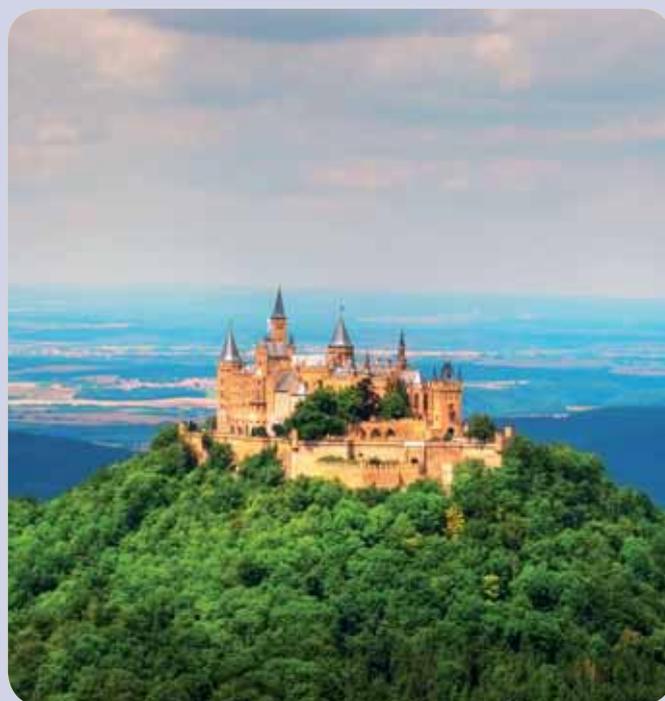


Control head with rotary handle and vacuum meter



Pneumatic swivelling unit

# AERO-LIFT Vakuumtechnik GmbH: Tested quality made in Germany



## Lifters & Components

AERO-LIFT Vakuumtechnik GmbH has more than 25 years of experience in manufacturing lifting equipment designed to transport very large loads with the aid of a vacuum system in a manner that is safe for personnel and materials.

In this regard, we do not only rely on standard products but also offer variations and special solutions that are optimally suited to your task. From miniature electronic components to heavy-weight aircraft elements, from rock slabs to flour sacks – lifting equipment from AERO-LIFT can be used to lift, rotate and move almost all types of materials.

Our product range also includes a large number of components such as seals, ejectors and valves that can be used to optimally equip your machinery used, e.g., in factory automation.

## Production & Service

AERO-LIFT Vakuumtechnik GmbH is a capable, medium-sized company. The people living in the Swabian Alb region, not far from the famous Hohenzollern Castle (photo), are known for their diligence, ingenuity and precision.

These virtues are an integral part of our company – and our aim is to live up to this reputation and improve ourselves on a daily basis.

That explains why the products of AERO-LIFT are of the highest standards, made in Germany, with a high level of vertical integration in the region. When selecting materials and suppliers, we attach great importance to optimum quality and a common goal - to impress our customers!

Contact our AERO-LIFT Service department, should you have any questions relating to our products and industry solutions.



# AERO-LIFT

we are here to assist you,  
even locally!

## AERO-LIFT international



To locate a representation or a contact person for your area - in Germany as well as in many countries around the globe, visit [www.aero-lift.de](http://www.aero-lift.de)

AERO-LIFT Vakuumtechnik GmbH  
Binsdorf, Turmstraße 1  
72351 Geislingen  
Tel (+49) 7428-94514-0  
Fax (+49) 7428-94514-38  
[info@aero-lift.de](mailto:info@aero-lift.de)  
[www.aero-lift.de](http://www.aero-lift.de)

