

#### **HT LYFTSYSTEM**

### Efficient, ergonomic, and safe handling solutions – tailored to your needs!

- We develop and manufacture solutions that meet specific needs and challenges.
- Our range can handle lifting of most materials.
- Sustainability is a priority and our solutions are built to last.
- We value long-term and strong customer relationships.
- Our products meet the highest quality standards.
- We place high demands on our products.
- Our commitment to your work helps us find the optimal solution.
- Ergonomic solutions are a given for us.
- We create solutions that harmonize with people, tasks, and the environment.





### We design customized handling solution



We are a Swedish company with over 20 years of industry experience. Over the years, we have supported customers across various sectors and parts of the world with innovative lifting and handling solutions.

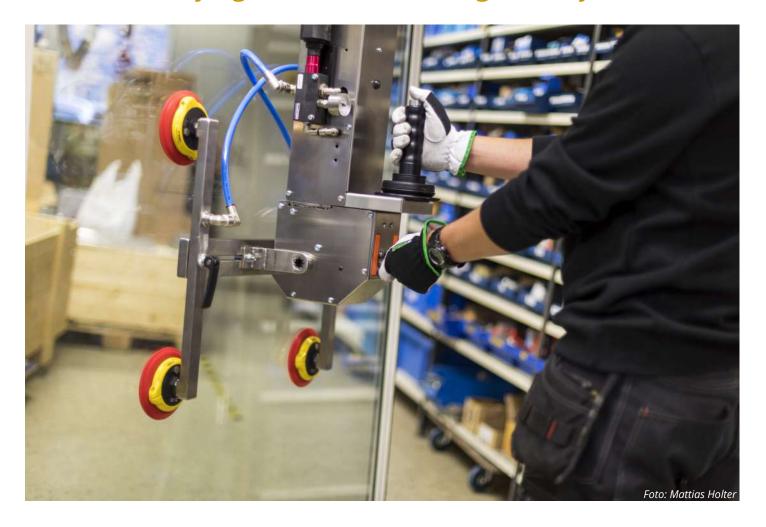
Our main goal is to develop user-friendly solutions that put people at the center of material handling. With our customers' specific needs and challenges in mind, we design and manufacture optimal handling solutions. We achieve this through a smart combination of standard products and customized grippers, both standardized and tailor-made.

We operate within several technical fields, including mechanics, hydraulics, pneumatics, vacuum technology, and electronics. By using core components from leading Swedish manufacturers, we can create unique and efficient combinations. When needed, we also design and manufacture the parts or tools required to ensure that each solution is fully comprehensive.

Our ambition is to fully commit to providing flexible, optimal solutions with long service life, solutions that truly meet your needs.



### From identifying needs to delivering turnkey solutions



### Here's what you can expect when working with us

Consultation

Together we perform a handling

analysis to review your project.

### Handling problem

Contact us and describe your situation and requirements .

# Installation

When the equipment is ready, we make sure it is up and running and that you get started.

### **Proposal**

We provide an offer for a solution tailored to your needs.

### Manufacturing

Once you have chosen our proposal, the products are manufactured at our facilities in Vallentuna.

### Support

After delivery, we offer assembly, training, service, and spare parts.



# Balancer lifter

More efficient and ergonomic handling with our balancer lifts – reduced strain and increased safety.







#### AirHandle - Feather-light lifting with fingertip control

AirHandle is the ultimate balancer lift – smart, user-friendly, and extremely reliable. The air-powered, electronically controlled unit features a unique patented control system and handle. When the handle is not in use, the load becomes weightless and perfectly balanced, allowing easy handling both via the handle and directly on the load.

AirHandle is available in several variants: AHC is a foldable arm crane for floor mounting, AHR is mounted on a rail system and uses an air-powered lifting cable, while AHS is also rail-mounted and lifts with a cylinder for loads up to 150 kg.

Changing application or tool is quick and easy thanks to preset parameters, which can be easily controlled and programmed with four different options.

### **AirHandle AHS** - Air-powered lift with full functionality from the start

The AirHandle AHS lifts with a direct-acting air cylinder, available with a stroke of 800 or 1200 mm and a capacity of up to 150 kg. Lifting is controlled via the unique patented handle, allowing smooth movement that follows the operator's hand, from quick lifts to precise handling.

The lift can be combined with various tools, and loads can be handled directly in the raised position. Since all interlocks and functions are built-in, only one button is needed to activate the gripping function, preventing accidental release of the load. This makes the AirHandle AHS both simple and safe to use. Additionally, the lift can be equipped with a pneumatic tilt module for tilting items such as a wooden panel.

### **AirHandle AHC** - Complete foldable arm crane with 360° rotation

The AirHandle AHC uses a lifting cable for smooth and responsive handling. This complete foldable arm crane controls lifting movement with the unique patented AirHandle handle, allowing motions to follow the operator's hand seamlessly, from quick lifts to precise handling.

All interlocks and functions are built-in, so only one button is needed to activate the gripping function. Accidental release of the load is impossible, as it must rest on a surface before it can be released. The foldable arm is equipped with a pneumatic brake that activates automatically when the handle is released.



# Balancer lifter



# **AirHandle AHR** - Fast and easily maneuverable balancer lift with a large working area

AirHandle AHR can be combined with a rail system or a crane and handles loads up to 60 kg. The lifting function and gripper are controlled by electronic controls, allowing multiple parameters to be set and adjusted according to the specific gripper and load.

In its basic configuration, AirHandle AHR includes all necessary safety and control functions for simple and secure handling. Settings can be configured for up to four different tools, tailored to their characteristics. Lifting and lowering speed can be adjusted to suit the specific application, both in manual operation and in balancing mode.



# **AirHandle IR 100** - Balancer lift easily mounted on a rail system or slewing crane

AirHandle IR 100 can be combined with various tools, such as vacuum cups, magnets, or mechanical solutions. The air-powered lifting cable, together with the AirHandle control system, provides very smooth and responsive handling.

The lift is equipped with an anti-jump function that brakes uncontrolled tool lifts and eliminates excessive acceleration during idle. Since all interlocks and functions are built-in, only one button is needed to activate the gripping function, preventing accidental release of the load in the lifted position. This makes AirHandle IR 100 both simple and safe for the operator to use.

The lift can handle loads, including the gripper, up to 100 kg.



### AirHandle Mechline - Integrated balancer lift with AirHandle control

AirHandle Mechline is a user-friendly balancer lift with automatic balancing, allowing the lifting movement to follow the operator's hand. Regardless of the load weight, it can be moved smoothly in any direction and at any speed.

This design enables simple and intuitive handling, where even the smallest hand movement is mirrored by the lifting tool. The lifting function and gripper are controlled by an electronic control system, allowing various parameters to be set to suit the specific gripper and lifting situation.

AirHandle Mechline handles loads up to approximately 40 kg, and with few moving parts, high operational reliability is ensured.



# **Balans lifter**



### AirHandle Mechline Pro Crane - Flexible foldable arm crane with AirHandle control

AirHandle Mechline Pro Crane is an advanced foldable arm crane equipped with AirHandle control. It is air-powered and features electronic controls for operating the gripper.

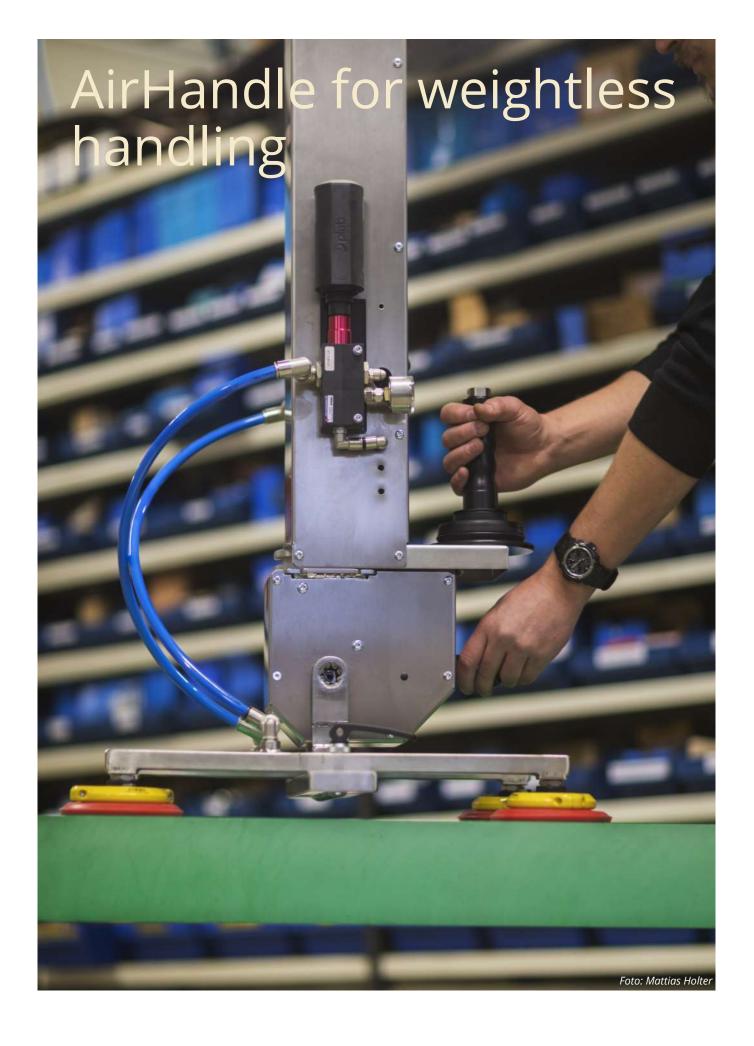
The lift uses a lifting cable for smooth and responsive handling. The foldable arm is available in lengths from 2 to 4 meters and handles loads up to 40 kg. With only one button to activate the gripping function, the risk of accidentally dropping the load is eliminated thanks to a built-in safety feature. Few moving parts ensure high operational reliability, and the lifting movement follows the operator's hand, allowing seamless operation from quick lifts to precision handling.

We offer both standard grippers and can also manufacture customized tools.

### Key advantages of AirHandle - Our intelligent balancer lifter

- High-quality and robust, with few moving parts for a simple design.
- Built-in safety features that prevent accidental release of the load.
- Balanced: when the handle is not in use, the suspended load remains perfectly balanced.
- Loads can be raised and lowered directly by holding them when balanced.
- Versatile applications for various use cases.
- Lifting requires minimal effort and allows precise control.
- Provides feather-light lifts with smooth and responsive movements.
- Allows free rotation of the load around its own axis without limitations.
- Highly efficient and reliable in operation.
- User-friendly and self-explanatory.
- Extremely dependable and stable during operation.
- Reactive and fast.
- Easy to install and start using.
- When the load is balanced in a weightless state, lifting is done with fingertip control.
- Can be customized with specially designed lifting tools.
- Four programmable options that can be easily adjusted with a single button.







# Cranes

Flexible load handling - Lift and position heavy objects with precision.



### **Mechline Pro Crane - Mobile foldable arm Crane with Balancer Lift**

The Mechline Pro Crane is air-powered and uses a lifting cable for smooth and responsive handling of loads up to approximately 50 kg. The foldable arm crane features an adjustable tower for height settings and is available with arm lengths between 2 and 4 meters.

The ball-bearing arm has low friction, providing smooth and easy handling. By choosing a mobile base plate, the crane becomes easy to move. Mechline Pro Crane is available in several pneumatic configurations, including a control handle that functions as an air-powered hoist with buttons for lifting and lowering, as well as a 2-weight balancing system that makes the load weightless and perfectly balanced.



### **Easycrane** - Mobile foldable arm crane with integrated vacuum lifter

Easycrane provides fast and smooth lifting, suitable for loads up to 80 kg of various sizes, shapes, and weights using different suction cups. The generous reach of 2 to 4 meters and the height-adjustable floor column make it flexible for most workplaces. The arm is ball-bearing mounted for low friction, ensuring very smooth and user-friendly handling.

With a mobile base plate, Easycrane can be easily moved between workstations using a manual pallet truck.

Commonly handled items include boxes, sacks, panels, barrels, crates, etc. The lift comes complete with a vacuum pump and start/stop control box.





# Cranes



### **Mobiarm** - Mobile foldable arm crane for all types of lifts

Mobiarm is an ergonomic foldable arm crane that can be adapted to various workplaces. With a generous arm length of 2–4 meters and a height-adjustable floor column, it is flexible for many environments. The ball-bearing arm provides low friction, making it smooth and easy to use.

Mobiarm's flexible design can be combined with lifting devices such as hoists, hose lifts, or balancer lifts.

By choosing a mobile base plate, it can be easily moved between workstations using a manual pallet truck.



# **Mechcrane** - Foldable arm crane, wall slewing crane, and pillar slewing crane. VKA-H with integrated frequency-controlled chain hoist.

The cranes handle loads up to 250 kg and feature a stable, powder-coated steel pillar. The lightweight and strong aluminum arms can be mounted as a foldable arm crane, pillar slewing crane, or wall slewing crane. Each crane arm is equipped with a durable, smooth-running aluminum trolley with premium-quality wheel bearings, providing ergonomic, quiet, and smooth load handling.

The crane arms can be equipped with a range of accessory components, such as cable trolleys, mounting brackets for custom accessories, and more.



Mechcrane - LVS / AVS Wall slewing cranes





# Rail Systems

Efficient and ergonomic handling - Smooth movement of loads with high precision.





### **Mechrail** - Rail systems in strong and lightweight aluminium

Mechrail is an overhead rail system with high strength and torsional rigidity combined with low weight, providing an ergonomic and easy-to-use solution. The crane rail features a durable, smooth-rolling aluminum trolley with premium-quality wheel bearings, ensuring quiet and smooth load handling. Its low rolling resistance makes operation exceptionally easy for the operator, among the lowest on the market.

Modular profiles allow for custom designs, and the system is easy to install, expand, and complement. A wide range of standard mounting brackets is available for installation on beams and ceilings. Designed for indoor use in industrial environments such as production facilities, Mechrail can be combined with lifting devices like AirHandle, vacuum hose lifters, torque arms, or hoists.



# Lift Trolleys

Lift and rotate everything from barrels, boxes, rolls, and much more.



### **PRX-trolleys** – Versatile, flexible, and mobile with capacity up to 325 kg

PRX and P trolleys offer extensive customization options for various needs and are available in models 325PRX, 225PRX, 175PRX, 130PRX, and 90PRX. The choice of model depends on the specific load and requirements. The trolleys can be configured with a wide range of standard tools, such as clamping units and tools with rotation and tilt functions, or with custom solutions.

The lifting trolleys feature 4 swivel wheels, with the rear wheels equipped with directional locks for easy maneuvering. They are user-friendly and require minimal maintenance. The column has screw drive and can be supplied in any height. For maximum safety, the trolley includes a built-in disengagement function, acting as a clamp and tip protection.



#### **IE-trolley** - Up to 90 kg with fully welded leg

The IE trolley is easy to maneuver, lightweight, and 555 mm wide. It can be customized with various options and standard tools, such as lifting forks in desired dimensions. The lifting height is determined by the chosen lift column, available in three standard heights.

The trolley is battery-powered and features a pedal-operated wheel brake on the rear wheels. The lift column uses screw drive, and for added safety, the trolley is equipped with a disengagement function to protect against clamp and tip accidents.



#### E-trolley - Compact and agile - Up to 90 kg

The E-lifting trolleys are compact and very maneuverable, with a width of only 435 mm. They offer various options and customization possibilities. The lift column uses screw drive and is available in three standard heights.

The trolley is battery-powered and features a pedaloperated rear wheel brake for safe and easy maneuvering.

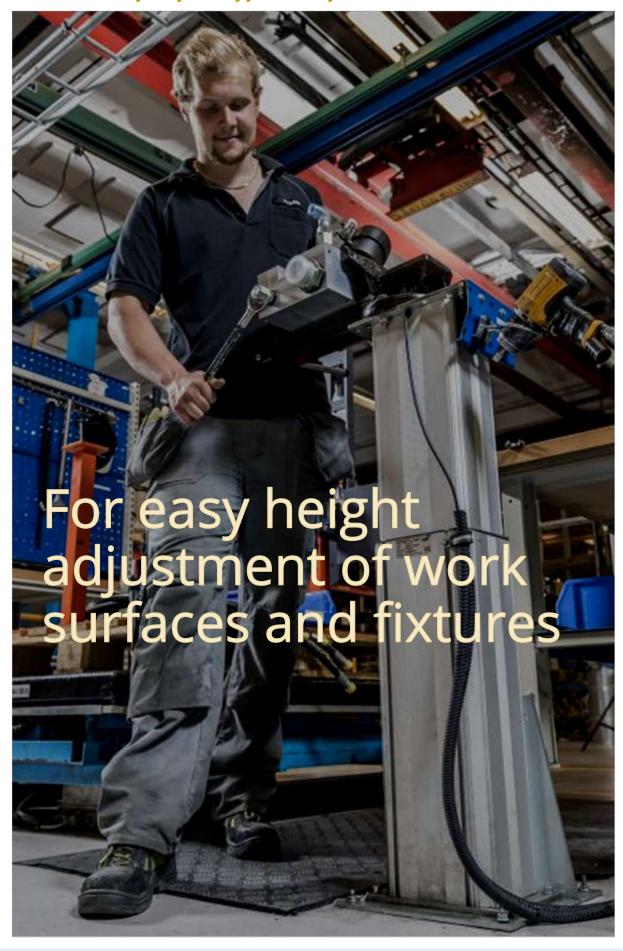


All lift trolleys are available in painted and stainless steel versions as well as in ESD versions.



# Lift columns

Stability and flexibility for assembly lines and workstations





# Lift columns



#### Electric lift columns - Quiet and stable

Used in assembly lines and workstations, lift columns adjust the height of work surfaces, tools, and fixtures for ergonomic work and increased productivity. Large sliding bearings ensure high stability.

Can be used individually or in parallel with up to four columns. Optional accessories include floor foot, foot frame, and control unit mount.

Made of natural anodized aluminum and maintenance-free.



# **Hydraulic lift columns -** Quick and easy height adjustment

The LP200 is a powerful lift column with high lifting capacity, suitable for single use or parallel systems. Available in various heights, stroke lengths, and capacities, it is made of sturdy aluminum. Designed for precise adjustment of tables, fixtures, and workstations.

The telescopic section is made of natural anodized aluminum, making it recyclable and maintenance-free. LP200 offers exceptional lifting force, torsional rigidity, and resistance to moment loads. Large sliding bearings ensure optimal stability, and the outer telescopic tube features dual nut tracks for mounting equipment and accessories.

### Key advantages of using lift columns

- Allows adjustment of work surfaces and tools to optimal heights, reducing the risk of strain injuries and increasing user comfort.
- Improves safety by reducing the need for manual lifting of heavy objects, lowering the risk of accidents and injuries.
- Quiet operation.
- Stable and maintenance-free.
- Increases productivity by enabling quick and easy adjustment of workstations and equipment, minimizing downtime.
- Available in different base heights.
- Helps reduce labor costs and the risk of injuries, potentially lowering absenteeism and insurance costs.



# Lift tables

Smooth, stable, and ergonomically designed for all needs



### Single scissor lift tables - Powerful and versatile

Single scissor lift tables are available in several versions, all smooth, stable, and ergonomically designed. They are commonly used as aids for material handling directly on the factory floor. With various models and lifting capacities from 500 kg to 10 tons, there is a lift table for every need.

The lift tables can be equipped with a range of accessories and control options to meet specific requirements.



### **Low-profile lift tables -** Installation height 80-100 mm

The low installation height eliminates the need for a pit, increasing flexibility and reducing installation costs. Available in various designs, with load capacities from 600 kg to 2 tons and lifting heights between 630 mm and 970 mm.

Models with U- or E-shaped table tops are ideal for pallet handling with pallet trucks. Low-profile lift tables with full table tops can be customized with a ramp for pallet trucks or other wheeled equipment.



# Horizontal double scissor lift table - For heavy and long loads

Horizontal double scissor lift tables provide efficient and safe handling of bulky loads. With various designs and models, we offer a wide selection.

Load capacities range from 2 to 10 tons, with lifting heights between 820 mm and 2000 mm, and table tops up to  $6200 \times 1500$  mm. The lift tables can be equipped with various accessories and control options to meet specific requirements. Functionality can also be enhanced with options such as mechanical stops and foot-operated controls.



# Lift tables



# Stainless steel lift tables - For high hygiene requirements

These lift tables are corrosion-resistant and withstand both harsh environments and aggressive cleaning agents.

The platform, base frame, and scissor arms are made of stainless steel according to AISI 304/EN 1.4301 (SS 2333).

Shafts, wheels, and bolts follow AISI 303/EN 1.4305, providing high corrosion resistance. Nipples and tubes are made of standard electro-galvanized steel, and the wheels are stainless steel/polyurethane.



#### Arm Lifts - Lift and tilt

The arm lift is an ideal choice for workplaces handling loads in pallets, boxes, or containers. It lifts the load with parallel arms, allowing both lifting and tilting in a single movement.

This unique feature creates an ergonomic workspace with ample foot space, comfortable working posture, and optimal accessibility.



### Scissor lift trolleys - Easy to maneuver

The TZ303 and TZ503 scissor lift trolleys are easy to maneuver and have a wide range of applications. The models can be customized and are ideal for lifting, assembly, transport, and adjustable work heights.

Lifting capacity: 300 kg and 500 kg, respectively.



# Lift tables









### **Advantages of lift tables:**

- Stable platforms in various sizes.
- High durability and robustness.
- Requires minimal maintenance.
- Can be equipped with various accessories, such as conveyor belts, rotating plates, or tilting platforms.



# **Pallet Lifters**

Optimal accessibility and flexibility for efficient loading and unloading



### TSL pallet lifter - Lifts pallets and containers

The pallet lifter raises loads to a working height of 970 mm. It provides free leg and foot space on three sides, offering superior accessibility and smooth operation. A pallet or container can be placed directly on the pallet lifter using a pallet truck or forklift. The minimum height is 70 mm.

Designed for optimal ergonomics, the pallet lifter has no foot obstacles on three sides, allowing the operator to get closer to the load during loading and unloading. With multiple designs, models, and the possibility for custom solutions, we offer a wide selection for maximum flexibility and an optimal solution.

Load capacity: 1500 kg



# TSLN pallet lifter with tilt function - Tilts 40° left and right

The TSLN features a stepless tilt function, allowing it to tilt 40° to the left or right. This creates an "ergonomic window" for the operator, reducing the need for stretching while providing an excellent overview of the load. With no foot obstacles on three sides, the operator can get closer to the load during loading and unloading. A pallet or container can be placed directly on the lifter using a pallet truck or forklift.

The minimum height is 70 mm. Designed for optimal ergonomics, the pallet lifter ensures comfortable and safe handling.

With multiple designs, models, and the option for custom solutions, we offer a wide selection to provide maximum flexibility and an optimal solution.

Load capacity: 1500 kg











# Moment-absorbing lifter

Free rotation and easy handling of heavy loads in rail systems



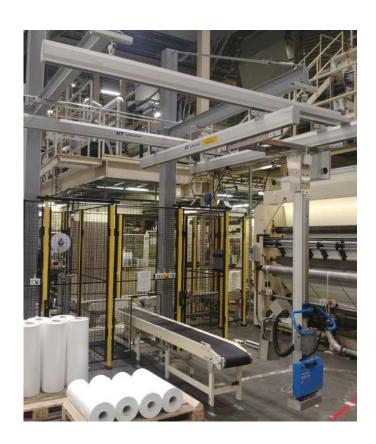
#### Overhead lift column - Moment-absorbing lifter

The moment-absorbing lift column is mounted in a rail system and can rotate freely multiple turns while supplying electricity and compressed air to the end effector on the column. Even heavy loads are very easy to move along the rail system. Raising and lowering of the load is done via an electric motor mounted at the base of the lift column. Movement can be performed over pallets, roller conveyors, and more.

The overhead lift column is available in several standard lengths.

Tools are adapted to the load being handled, ranging from simple lifting forks to vacuum grippers, as well as clamping and rotation units.

A common application is handling sheet material in and out of CNC milling machines.







# Moment-absorbing lifter



### Mechlift Pro - Available in pneumatic and electric models

The lifter can be fixed or rotatable at the top and is ideally mounted in a rail system. The lower section offers multiple tool attachment options, with or without rotation. Momentabsorbing wheels allow loads to be positioned off the vertical axis.

Constructed from telescoping anodized aluminum profiles, maintenance-free, and suitable for demanding environments. Can be combined with drive units in the rail system for X and Y movements.

Pneumatic: up to 150 kg Electric: up to 650 kg

Typical applications: glass assembly, automotive industry.



#### **Mechspace Pro** - Easy to maneuver and ergonomic

A pneumatic moment-absorbing lifter with up to 1500 Nm torque. Easy to maneuver, it provides ergonomic freedom of movement over a wide working area. Available in two models: rail-mounted or pillar-mounted.

Its moment-absorbing capability is ideal for complex handling, gripping, and rotation of eccentric loads, especially in hard-to-reach areas, under overhangs, inside machines or vehicles.

Available in several pneumatic variants.

Typical applications: press operations such as punching, bending, etc.



#### **LionGrip** - Handles heavy loads up to 200 kg

The moment-absorbing lift arm is pneumatically powered and features electronic controls for maneuvering and operating the gripper. The unique patented AirHandle control handle allows smooth, precise movement, with the lift following even the smallest operator motions.

Standard models handle loads up to 150 kg, with a working radius of up to 4 meters and over 400° operational range. Moment-absorbing capability is ideal for complex handling, such as under overhangs, inside machines or vehicles, or other hard-to-reach areas.

Designed for lifting, transporting, and positioning rolls with high precision and minimal effort.



# Vacuum tube lifters

Effortless lifting for industry and logistics



#### **Easycrane - With integrated vacuum lifter**

The Easycrane handles loads up to 80 kg and is an intuitive, easy-to-use lifting device for quick and smooth handling. With a range of suction pads, it can lift loads of varying sizes, shapes, and weights.

With its generous reach and height-adjustable floor column, it can be adapted to most workstations.

Add a mobile base plate, and the Easycrane can be moved easily with a manual pallet truck, no installation required.

Common applications include lifting and moving boxes, sacks, and other components.



#### Easyhand M - For loads up to 55 kg

A modular vacuum lifter designed for easy and convenient handling of items ranging from sacks and boxes to sheet materials such as glass, metal sheets, and doors.

A wide range of standardized grippers and accessories makes it simple to customize the vacuum lifter to your needs.

Lifting and lowering are controlled via an ergonomically designed handle. The handle controls also allow easy adjustment of the lifter's resting height, with or without a load.

The lifter is designed for minimal air leakage, ensuring reliable performance and low energy consumption.



#### Easyhand Pro - Single-hand lifter for loads up to 55 kg

Easyhand Pro is a convenient and easy-to-use vacuum lifter operated with one hand. Its main strengths are smooth handling and precise lift control. Lifting and lowering are controlled via an ergonomically designed handle. The handle also allows easy adjustment of the lifter's resting height, with or without a load.

Available in several versions, from simple straight lifts with standard suction cups to models with swivel and 90° tilt functions. With a wide selection of suction cups and vacuum grippers, the lifter can be easily customized to your needs.

Typical applications include handling boxes and sacks. The lifter is often combined with a crane or rail system, and mobile crane solutions are also available, such as the Easycrane.



# Vacuum tube lifters









#### Easyhand Pro Rapid - Fast and efficient

For loads up to 55 kg, the Easyhand Pro Rapid is designed for applications requiring fast handling of boxes and packages. Its primary use is in carton handling at workstations within logistics and distribution.

Equipped with a quick-release function, it allows rapid release of the lifted item above the delivery surface. Available in several versions, from simple straight lifts with standard suction cups to models with swivel and 90° tilt functions. The handle controls allow easy adjustment of the lifter's resting height without a load.

Ideal for facilitating package distribution by assisting with loading and unloading at distribution centers.



#### Vacuhand Pro - For loads up to 250 kg

The Vacuhand Pro is operated with a two-handed control handle and provides easy, efficient handling of sacks, boxes, and sheet materials. It offers a wide range of accessories, including different lift units, power sources, tools, and various grippers and special suction pads to suit loads of different sizes and materials.

The control unit can be fitted with adjustable or fixed handles of different lengths to suit each specific workstation. Available in several versions, from simple straight lifts with standard suction cups to models with swivel and 90° tilt functions. Stainless steel control units and grippers are also available.

Vacuhand Pro is often used for lifting and handling sacks and wooden materials, reducing physical strain on operators and improving workplace safety.



# Hoists

#### Time savings, reduced injury risk, and improved workflow



### Mechchain Pro - Electric chain hoist

The MechChain Pro is an electric chain hoist with stepless speed control, offering precise handling from crawl speed up to 16 m/min. Available in four load capacities: 63 kg, 80 kg, 125 kg, and 225 kg.

It can be equipped with multiple stop positions along the lift path, integrated PLC, and optional radio control. The hoist includes an integrated trolley specially designed for MechRail systems, which can be part of a crane or rail system.

For movement, MechChain can be operated manually or with the electric Powerdrive unit, which integrates a motor into the rail system trolley.

Ideal for medium-duty loads from a few hundred kilograms and upwards, providing an efficient and smooth lifting solution.

We also offer chain hoists from other manufacturers for loads up to approximately 1000 kg.







# HT Vacuum Grippers

Custom vacuum grippers for efficient and safe material handling



#### HT Vacuum Grippers - Customized for every load

Vacuum Grippers provide the perfect solution for both vertical and horizontal material handling.

With a simple connection via a single air hose, these pneumatic tools integrate seamlessly with your hoist. Built with precise air cylinders, they allow exact positioning and secure holding of your load at any angle. Adjustable ejectors and suction cups make them versatile enough to handle both airtight and porous materials.

The modular design offers fully adjustable beams in a range of lengths and optional tilt functions for smooth transitions between vertical, horizontal, or sideways positions, giving you maximum flexibility.

At HT Lyftsystem, we design and manufacture vacuum grippers in multiple sizes, models, and configurations, fully tailored to your unique handling requirements. Experience efficiency, precision, and safety, all in one solution..







# For over 20 years, we've Created Custom Solutions

We want our products to make a real difference.

Our goal is to deliver solutions that truly add value. Achieving the best outcome often requires developing customer-specific special solutions. Sometimes adapting our existing components is enough, but often a fully customized design is needed. In those cases, we design and manufacture a solution created to be used effectively and appreciated to the fullest.

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Feel free to contact us if you are missing anything or have any quesions!



# Some of our custom solutions

