



# Lifting technology for efficient manual handling



Global reach | Strong brand | Sustainable Market leader | Growing market Positive culture | Business focus | High quality

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### Efficient and ergonomic manual handling is key for long term business success

In Kungsbacka, a small town on the west coast of Sweden, TAWI head office is home to a dedicated staff, including everything from product development to production. Our team of experienced engineers design lifting solutions customized for your business needs. Their innovations are realised in the lifting equipment put together by skilled technicians, securing optimal quality and short lead times. Dedicated customer support is guaranteed when investing in TAWI lifting solutions and our service team will assure that the equipment never fails you. Choosing TAWI means that you get Swedish quality and reliability, in product, service and support. We offer a wide selection of lifting solutions for everything from food manufacturing to automotive industry.

Our lifting equipment handles everything from boxes and sacks, to cheese and windshields. We can turn, tilt and rotate heavy barrels, large panels and much more. Our solutions include stationary and mobile vacuum lifters, lifting trolleys, hoists, crane systems and jib cranes. This means that TAWI equipment cover all your lifting needs. Experience the benefits of using one complete supplier. - Contact us today.

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## Save money with TAWI

### Higher productivity and...

Increase productivity by making lifting easy. Lift more without losing speed and maintain productivity all day, every day. When lifting is easy you can lift more, with less effort.





### healthier employees and...

Relieve employees from strenuous lifting and help them stay healthy, alert and efficient all day. Your staff will be healthier and feel better, they will manage demanding work for long hours and still have energy for more.

### workforce flexibility...

Big and strong or small and slender. It doesn't matter, anyone can lift. Streamline your operations by giving everyone the power to lift. Create a flexible workplace where employees can move between workstations to avoid unnecessary downtime and ensure continuous productivity.



### ...come together as the TAWI equation

Higher productivity, healthier employees and greater workforce flexibility equals a cost effective and ergonomic work environment. That is how you save money with the TAWI equation.

# Speed up the manual handling of goods with vacuum

TAWI vacuum lifters are robust and reliable tools that make lifting easy, for everyone. Our lifters are always designed with the user in focus. The vacuum lifters are very user-friendly and anyone will learn how to use them within minutes.

Vacuum technology is ideal for secure lifting without risk of damaging the goods or the person lifting them. Grip the load with suction cups designed for the goods you need to lift, regardless if you are lifting sacks, boxes, sheets or something else. TAWI vacuum lifters allow everyone to lift up to 270 kilos without effort. Giving everyone the power to lift increases workforce flexibility, making it easy for employees to switch between work stations. The lifters are extremely versatile, handling everything from simple boxes to complicated car components.

The TAWI VacuMove is our most versatile lifter, handling everything from heavy and awkward bags to fragile glass sheets or complex car components.

The TAWI VacuCobra is your high-speed choice, ideal for high frequency handling of packaged goods.



## TAWI VacuMove

### **Boxes and cartons**

- Rapid, efficient workflow
- Accurate, secure grip and positioning
- Adjustability to suit various box sizes and shapes
- Maximum speed with minimal effort





### Bags

- Drastic reduction in heavy, repetitive lifting
- Secure grip on every bag for efficient reliable lifting
- Tools for plastic, paper and woven bags
- Lifting without damaging the bag

### Sheets

- Handling sheets of wood, glass, aluminium and laminate
- Secure grip for efficient, reliable lifting
- Big range of movement for highest accuracy and flexibility
- Tilt or turn sheets up to 360°





### Drums, kegs and pails

- Grip from the top or from the side
- Easy and ergonomic manual handling
- Tools for tilting or rotating drums
- Grip and lift several drums or pails together

Model	VM30	VM40	VM50	VM60	
Lifting capacity	30 kg	40 kg	50 kg	60 kg	
Max length lift tube	2 500 mm	2 500 mm	2 500 mm	4 000 mm	
Lift tube ø	100 mm	120 mm	140 mm	160 mm	
Stroke	1800 / 2600 mm	1 800 / 2 600 mm	1 800 / 2 600 mm	1 800 / 2 600 mm	
Lifting speed	0-1 m/s	0-1 m/s	0-1 m/s	0-1 m/s	
Model	VM80	VM100	VM120	VM180	VM270
Lifting capacity	80 kg	100 kg	120 kg	180 kg	270 kg
Max length lift tube	4 000 mm	2 500 mm	4 000 mm	2 500 mm	2 500 mm
Lift tube ø	180 mm	200 mm	230 mm	250 mm	300 mm
Stroke	1800 / 2600 mm	1700 / 2 400 mm	1700 / 2 400 mm	1 500 / 1 800 mm	1 500 / 1 800 mm
Lifting speed	0-1 m/s	0-1 m/s	0-1 m/s	0-1 m/s	0-1 m/s

### TAWI VacuMove standard models

VM30-VM120 are available in stainless steel, ideal for industries with high sanitary requirements. VM180 and VM270 are avalable in stainless steel with standard hose.



We recommend mounting your TAWI VacuMove in our own range of crane systems. The jib arm or bridge crane suspends the lift tube and is available in different lenghts and capacities.

Find more information about TAWI crane systems on pages 26-27.

### Vacuum pumps

Our vacuum pumps are designed with three key features in mind; performance, reliability and sustainability. The direct driven pump minimizes friction and unnecessary wear, ensuring continuous operations for your vacuum lifters.

TAWI vacuum pumps are available in two models; medium and large. The medium model is recommended for VM30-50, the large model for VM60-270.



### Handles



Fixed handle



Standard handle



Flex handle



Special handle

### **Suction feet**



Fixed handle with special suction foot 630200



Fixed handle with suction foot 610650



Flex handle with suction for side lifting 610850



Standard handle with suction foot for sacks 630300



Flex handle with suction foot for rolls 610400



Flex handle with special spider yoke for lifting sheets



Fixed handle with hook tool 630460



Fixed handle with suction foot for sacks 610320



Flex handle with suction foot 610700



Flex handle with suction foot for boxes 630650



Flex handle with suction foot for sheets 610620, angle adapter 610810, and handle for angle adapter 610811



Suction foot for drums 650210

## **TAWI VacuCobra**

### High speed handling

- High-speed box handling
- Grip boxes from the top or from the side
- One-handed lifting with user-friendly joystick handle
- Suitable for left- and right-handed users





### **Time-efficient**

- Easily pick up load with one hand
- Quick and easy release of load

### **Ergonomic and user-friendly**

- Comfortable joystick handle for easy operations
- Saves workers from straining repetitive lifting
- Rotate the load without rotating the lifter and handle goods with great accuracy
- Ergonomic design ensures a safe and ergonomic working position





### Handling boxes and more

- Gripping load with vacuum for a safe grip that does not damage the load
- Various suction tools allow quick handling of cartons, pails, sacks and more

### TAWI VacuCobra standard models

Model	VC20	VC35	VC40	VC50
Lifting capacity	20 kg	35 kg	40 kg	50 kg
Max length lift tube	2 100 mm	2 100 mm	2 100 mm	2 100 mm
Lift tube ø	80 mm	100 mm	120 mm	140 mm
Stroke	1 680 mm	1 6150 mm	1 615 mm	1 590 mm
Lifting speed	0-1 m/s	0-1 m/s	0-1 m/s	0-1 m/s



High-speed manual handling has never been easier. Grip and lift quick and easy with just one hand, powered by reliable vacuum technology.

A TAWI VacuCobra is conveniently mounted in a TAWI Jib Crane or for larger working areas, in a TAWI Overhead Bridge Crane. The air hose is held out of the way so that you can work efficiently without any disturbance. our local TAWI representative will be happy to guide you to the best mounting solution for your lifter.

### **TAWI VacuCobra options**

All TAWI VacuCobra models are available in stainless steel execution, a safe choice when lifting in environments with high demands on cleanliness. The stainless steel models are often used in food production, safely handling blocks of cheese or frozen meat, milk cartons, wine boxes and more. The suction feet can be adapted to meet your specific requirements, ensuring that the lifter is ideal for gripping your goods, no matter what they are.



VC35 stainless steel

VC35 with standard suction head

VC35 with adapter

# Ergonomic lifting with full mobility and flexibility

TAWI mobile lifters allow you to lift anything, anywhere. Pick up goods in one place, transport them effortlessly, and lift them in place wherever you need them.

Tawi Mobile Order Picker is a unique solution for efficient order picking and material handling. Simply pick up the mobile vacuum lifter unit with any kind of forklift or pallet jack and go wherever you need to lift. TAWI Lifting Trolleys are ideal for moving goods to and from a production line, or simply lifting without being confined to just one work station. A variety of tools make these portable devices suitable for lifting different types of goods, including rolls, drums and crates.

We know the importance of flexibility and mobility and that is why our lifting trolleys do not only lift but also rotate, turn and tilt goods. Rolls are tilted from vertical to horizontal position before they are conveniently mounted on a machine axis. Drums and crates are easily tilted to empty their contents with no physical effort for the operator.



# **TAWI Mobile Order Picker**

### Lift anything

- Cartons and boxes
- Paper, plastic and woven bags
- Sheets of wood, metal, glass or plastic
- Drums, kegs or pails
- Tires and more





### Lift anywhere

- Move the lifter anywhere you need to lift
- Compatible with any type of forklift or pallet jack
- Adjustable tower height allows reach into pallet racks or other low headroom areas

### Safe and user friendly

- Designed for ergonomic manual handling
- Support legs for optimal stability when lifting
- Safety lock holds articulating arm in place when moving the lifter
- User friendly on-board panel





### **Flexible and versatile**

- Compatible with various vacuum lifters and vacuum tools
- Adaptable fork tunnels for effortless adjustment to any fork system
- Electronically driven height adjustment to accommodate different lifting heights and height limitations

## TAWI Mobile Order Picker specifications

Model	VM40	VM50	VM60	VM80	VC40	Compact
Lifting capacity	40 kg	50 kg	60 kg	80 kg	40 kg	35 kg
Lift tube ø (mm)	120	140	160	180	120	100
Stroke vacuum lifter (mm)	1340	1 320	1 320	1 290	1230	1 500
Stroke tower (mm)	500	500	500	500	500	500
Lift tube length (mm)	1750	1750	1750	1700	1600	N/A
Noise level, idle (dB)	76	76	76	76	76	76
Noise level, in operation (dB)	75	75	78	78	76	76
Max lifting height* with lowered tower (mm)	1 940 1 440	1 920 1 420	1 900 1 400	1 890 1 390	1 810 1 310	2 066 1 566
Battery charging procedure	Plug into an electrical outlet (100-240 V. For 110 V, use 3-phase charger. For 230 V, use single-phase charger. Grounded, 50-60 Hz) Recommenmded 8 hours continuous charge.					
Battery pack replacement	Prolonged operational time is achieved by switching the battery pack. This proce- dure takes approx. 10 minutes.					
External power source	The unit can be connected to a 24 V external power source					
Up and down motions of tower	52-58 mm/s					
Weight of unit	630 kg					

\* From bottom of suction head (excl. suction foot)



### Have one person do a two man job!

The mobile order picker is a time-saving tool in any warehouse or logistic center. The unit quickly moves from pallet rack to pallet rack, picking boxes, bags and other goods of varying size and shape. By allowing fast movement and effortless lifting, the order picker will often save time and manpower in the order picking process.



One push of a button and the unit is ready to start lifting. Lift goods on to pallet and move on to the next pallet rack.



Fill your pallet with goods of varying size and shape. Effortless, time-efficient and ergonomic.

### **TAWI Mobile Order Picker Compact**



Pick up the unit with any type of

where you need to lift.

forklift or pallet jack and move it to

### **Unlimited reach**

This compact TAWI Mobile Order Picker offers extended reach into pallet racks, containers and other areas with limited head room.

Due to the extremely compact design the operator can smoothly move the arm in and out of pallet racks, reaching all goods on a pallet from top to bottom.

# **TAWI Lifting Trolleys**

### Safe and reliable

- SafeDrive ensures that if a tool hits an object during lowering, it will stop immediately
- The lifter is belt driven which ensures quiet and smooth oil free drive
- Circuit board for speed control and overload protection on all models





### Flexible

- Modular construction, making it easy to adjust the lifter for various applications
- The standard series have lifting capacities between 40-250 kg
- On several models, the measures of the wheels makes it possible to drive the lifter into a Europallet in three different ways

### Ergonomic

- Minimizes the strain on back, knees and shoulders
- Ergonomic handle for easy and comfortable operation
- High quality and robust wheels for smooth and simple transportation with and without load





### Efficient

- Lift more with less effort
- Detachable battery pack makes it easy to switch batteries. No cables.
- Effective battery charger makes the full charging cycle fast
- Charging indicator clearly showing the battery charging status



### Models and technical details









Model	PRO40	PRO80	PRO140	PRO180
Lifting capacity	40kg	80kg	140kg	180kg
Stroke mm short/medium/long	-/1040/-	850/1400/1950	840/1390/1940	840/1390/1940
Weight of unit kg short/medium/long	-/41 /-	46/50/53	69/73/78	77/ 81/86
Total height of unit mm short/medium/long	-/1640/-	1440/1990/2540	1440/1990/2540	1440/1990/2540
Battery charging proce- dure	100-240V, grounded 50-60 Hz	100-240V, grounded 50-60 Hz	100-240V, grounded 50-60 Hz	100-240V, grounded 50-60 Hz
Lifts per charge	40kg x 1m x 100 times	80kg x 1m x 100 times	140kg x 1m x 100 times	180kg x 1m x 100 times
Up and down motions	Control panel (one speed)	Hand control (two speed)	Hand control (two speed)	Hand control (two speed)
Front wheels	Swivelling	Swivelling	Fixed	Fixed
Brake system	Rear wheels separately braked	Central brake with directional lock	Central brake with directional lock	Central brake with directional lock
Overload protection	Incorporated in circuit load	Incorporated in circuit load	Incorporated in circuit load	Incorporated in circuit load









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Model	PRO250	PRO100ESE	PRO200ESE	Stainless steel	
Lifting capacity	250kg	100kg	200kg		
Stroke mm short/medium/long	-/1360/1910	-/1390/1940	-/1360/1910		
Weight of unit kg short/medium/ long	- /107/113kg	- /115/120kg	- /152/158kg	Legs, wheels and handle in stainless steel. Equipped	
Total height of unit mm short/medium/long	-/1990/2540	-/1990/2540	-/1990/2540	with a white FDA approved cover.	
Battery charging procedure	100-240V, grounded 50-60 Hz	100-240V, grounded 50-60 Hz	100-240V, grounded 50-60 Hz	Available for models PRO140-250 including	
Lifts per charge	250kg x 1m x 100 times	100kg x 1m x 100 times	200kg x 1m x 100 times	100ESE and 200ESE.	
Up and down motions	Hand control (two speed)	Hand control (two speed)	Hand control (two speed)	For technical details see	
Front wheels	Fixed	Fixed	Fixed	separate model.	
Brake system	Central brake with directional lock	Central brake with directional lock	Central brake with directional lock		
Overload protection	Incorporated in circuit load	Incorporated in circuit load	Incorporated in circuit load		



With **EasyFlex** we can adjust the length of the legs according to your specific needs.

On models PRO80 and PRO140 the legs can also easily be adjusted in width, each leg is adjustable by 150mm.

**Tools and accessories** 



Platform Ergonomic handling of various goods. Two surface materials: stainless steel and checker plate.



Tube fork Easy handling of rolls from their outer surface.



Fold up platform Flexible tool with fold up platform and fork tool. Lift boxes and crates with the same tool.



Crane arm with hook Handling of various goods. Optimal for reaching into narrow spaces.



Boom Ergonomic roll handling. Lift and transport rolls onto shafts and machines without effort.



Fork for shafts Precise handling of rolls on shafts into machine.



Roller boom Equipped with rollers for effortless loading and unloading of rolls. Safety pin for safe transportation.



**Coregripper** Roll handling from the core, Ø76 and Ø152. Rotate from vertical to horizontal position.



Ladder Optimal for pushing goods from the tool onto a shelf. Can be mounted on both sides of the lifter.



Quick coupling Makes it possible to easily switch tools on the lifter.



Articulating adapter Enables easy articulation of tools. Can be mounted between all types of tools.

# Lifting all types of goods with precision and power

An electric hoist is ideal when you need to lift with stability and control. Perfect for handling cumbersome containers, tall metal profiles and much more.

<sup>TAWI</sup> ViperHoist is among the fastest wire hoists on the market, lifting with both speed and precision. A wide selection of tools makes it possible to lift anything from woven sacks to metal profiles. A user-friendly and ergonomic handle makes the hoists easy to control with just one hand. Variable speed control allows you to choose how fast or slow you need to move at any point, giving you full control and precision when lifting.

TAWI Chain Hoist lets you handle heavier loads, up to 2 500 kg. The chain hoist is characterized by its silent run and long durability, even in very tough conditions. This strong and durable hoist is even suitable for outdoor use.

The electric hoists are easy to install and require little maintenance. High quality and low energy consumption makes the hoist a sustainable choice with low cost of ownership. Simply a great way of streamlining manual handling of goods and saving both time and money.



# **TAWI ViperHoist & TAWI Chain Hoist**

### **Tools for various applications**

- Rolls
- Metal profiles
- Car components
- Batteries
- Pails, drums
- Pallets
- Bags





### **Speedy and efficient**

- Up to 0.75 m/s lifting speed
- Variable speed control
- User-friendly joystick handle makes the hoist easy and efficient to work with
- Quick coupling allows quick change of tools
- Lifting capacity 60/120 kg (wire hoist)

### **Cost-efficient and sustainable**

- low energy consumption
- low cost of ownership
- easy to install and requires little maintenance





### Heavy duty chain hoist

- Lifting capacity <2 500 kg
- IP65, suitable for outdoor use
- Chain safety factor min 8 times (FEM, 2m, ISO, M5)
- Low-wear DC-spring-loaded brake

### Models and technical details

	ViperHoist Vh60/VH120	Chain Hoist
Lifting capacity	60/120 kg	<1 600 kg
Lifting speed	0.75/0.35 m/s	8/2 m/min
Power supply	230V +/-10%	3×400V
Lifting height	2 000 mm	4 000 mm
Speed control	variable	2-speed
Frequency	47-63 Hz	50 Hz



TAWI offers a complete selection of wire hoists and chain hoists. The wire hoist is the preferable choice when you need to lift with speed and precision. The chain hoist is very powerful and durable, the right choice for heavier loads and for lifting in tough conditions.

Both hoists offer a selection of tools for handling all types of loads, anything from sacks or drums to car chassis or entire walls.

### TAWI Grip vacuum yoke

	Horizontal	Vertical
Lifting capacity	500 kg	250 kg
Vacuum source	electric or pneumatic	electric or pneumatic
Suction cups	dimensioned for double the load	dimensioned for four times the load
Tilt	-	90°

Mounted in a chain hoist TAWI Grip vacuum yoke allows easy and efficient handling of all types of sheet materials. Using an electric or pneumatic vacuum source, the yoke safely holds big sheets of glass, metal, wood or plastic. The vertical model allows 90° tilt, while the horizontal model can handle heavier loads, up to 500 kg.

The vacuum yoke is available in two standard models but can also be customized to meet specific customer requests. Talk to your local TAWI representative and they will help you find the best tool for your needs.

# **TAWI Grip**

### Handling all types of sheets

- Glass
- Metal
- Laminate
- Plastic
- Wood





### Tilt and turn

- Tilt and turn big sheets effortless and easy
- Up to 180° tilt
- CNC loading

### **Ergonomic and user-friendly**

- User-friendly control panel
- Compact design
- Adaptable to your needs
- Ergonomic design minimises the risk of straining or injury





### **Custom made**

- The tool can be custom made to meet your every need
- Suction cups adapted to your load
- Tilt and turn functionality adaptable to suit your workflow and requirements

# A reliable foundation for efficient lifting

A crane system built for your needs, integrated in your workflow, will help ensure efficient lifting and productive processes. TAWI Overhead Bridge Cranes and TAWI Jib Cranes give you the freedom to lift and move goods exactly where you need them.

TAWI crane systems offer flexible solutions for mounting lifters so that you can use them wherever you need. Steel or aluminium profiles can be mounted in the ceiling or on floor pillars, built to match your facilities and meet your every need. No matter how your facilities are constructed, we will build an overhead crane system that is ideal for your conditions.

With a selection of standard jib cranes, and the ability to modify cranes to customer requests, we can always find an ideal solution for your business needs.

TAWI cranes are reliable systems that will help keep your operations running for decades. The profiles are produced from high-quality steel, finished off with a protective coating. Parts are merged together seamlessly, making sure whatever you suspend in the system will run smoothly for many years to come.



## **TAWI crane systems & jib cranes**

### **Many options**

- Aluminium or steel profiles
- Mounted in ceiling or on floor pillars
- Suspended directly in ceiling or in roof beams
- Move lifters by manual power or remote control
- Portable jib cranes for greater flexibility
- Overbraced or underbraced depending on what suits your facilities





### **Customization**

- TAWI crane systems are always built on customer request
- Adapted to your facilities and requirements
- Easily integrated in your workflow
- Delivered in TAWI blue coating, or the colour of your choice

### **Complete range of systems**

- Single and double girder cranes
- Low built system for low headroom areas
- Stainless steel systems for easy cleaning
- Jib cranes mounted on wall or pillar
- Portable options available





### **Powerful suspension**

- Up to 1 500 kg lifting capacity
- Up to 8 000 mm between suspension points
- Provides great range of motion when lifting with vacuum lifters or hoists

# Reliable and safe in hazardous and sensitive environments

For sensitive environments where cleanliness is key, all TAWI Lifting Trolleys are available in stainless steel. The star in this area is the CR80 model with IP-rating IP65 which can be cleaned with pressure washer. This lifter is commonly used in cleanroom areas in e.g. pharmaceutical manufacturing, but also food industry clients appreciate this easy-to-clean lifter.

All our vacuum lifters are also available in stainless steel and can be custom made to meet your specific hygiene requirements. For hazardous environments where ATEX regulations apply, we offer complete vacuum systems designed for ATEX zones 1 and 21, 2 and 22. This means that the whole system including crane, vacuum lifter and tooling is approved for use in these ATEX zones.

All TAWI Lifting Trolleys can be configured for use in ATEX zones 1 and 21, 2 and 22. Choose the trolley most suited for your lifting needs, with the tooling needed to handle your goods, and we adapt it for safe use in ATEX regulated environment.

No matter what you need to lift or where you need to lift, TAWI will ensure safe manual handling in your operations.



# **Cleanroom and Explosion Proof solutions**

### **CR80 lifting trolley**

- Lifting up to 80 kg
- IP65
- Designed to operate in the most demanding work environments and withstands high pressure cleaning
- Wide selection of tools for lifting various goods





### **Stainless Steel vacuum lifters**

- Available in various models lifting up to 270 kg
- Easy to keep clean thanks to stainless-steel design
- Custom made suction feet for whatever you need to lift

### **Explosion Proof vacuum systems**

- The motor on the vacuum lift can be manufactured to offer protection in areas where flammable substances and ignition sources are present
- Certified safe for areas classified as hazardous
- Vacuum's pump can be placed in another room, enabling the vacuum lift to vent the exhaust into a safe area.





### **Stainless Steel lifting trolleys**

- Several models handling up to 250 kg
- Selection of tools for handling rolls, drums, crates, boxes and more

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