

# Smart Lifting Solutions

Optimised for your business



**TAWI**

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## Swedish inventor since 1923

In Kungsbacka, a small town on the west coast of Sweden, TAWI is home to a dedicated staff performing everything from product development and design to final production. TAWI enables businesses to move from manual handling to smart lifting operations in production, logistics and distribution where manual handling is part of daily operations.

TAWI is there for businesses that wants to improve the working conditions for its employees and at the same time increase productivity and workforce flexibility. In 2020, TAWI was acquired by Piab Group, strengthening our leading position in the semi-automated lifting market.





# How we make ergonomics become economics

Move from two-man lifting to one-person lifting!

Avoid unnecessary downtime with a flexible and healthy workforce. Higher productivity, health & safety and greater workforce flexibility equals a cost effective and ergonomic work environment.

Save money with the **TAWI equation**.

Customer case: How did Rockwool achieve successful ROI?

Time saving effects

Improved employee health and satisfaction

Making ergonomic lifting a natural part of the production flow

At their production site in Belgium, Rockwool have invested in several lifting solutions from TAWI where vacuum lifters and mobile trolleys are used daily as a natural part of the production flow. Productivity has increased as the workers are able to maintain their work speed throughout the day while handling 7200 kg of boxes, without getting tired.



Daily workload per employee:  
Weight of boxes: 25 kg  
Boxes per pallet: 72 pcs  
25x72 = 1800 kg per pallet  
X 4 pallets/shift = 7200 kg/shift

“The investment in TAWI lifting equipment pays off quickly due to the obvious health benefits for the employees”

Danny Flass, Production site supervisor,  
Rockwool Belgium



## The TAWI equation

### Higher productivity

- Move from two-man lifting to one-person lifting!
- Lift more and with duration, with less effort
- Maintain productivity all day
- Minimise downtime



### Health & safety

- Relieve employees from strenuous lifting and help them stay healthy and safe
- Minimise the risk of dropping or damaging goods
- Keep your employees alert and efficient throughout the day, managing demanding work for long hours and still have energy for more

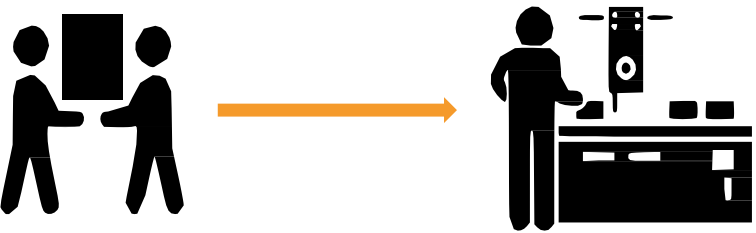


### Workforce flexibility

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



## Transform your business with TAWI



Today, most industries place more attention on employee health and safety. For decades, we have seen our TAWI lifting solutions transform workplaces around the world.

Our solutions are the first step from a fully manual handling position onto the journey of automation - a quick and cost efficient step.

# Complete range of lifting systems

TAWI lifting equipment offers a wide range of solutions to meet your needs, including stationary & mobile vacuum lifters, container unloading systems, lifting trolleys, hoists, crane systems and jib cranes. We offer stainless steel lifters and systems approved for use in cleanroom and ATEX areas.

Experience the benefits of using one complete supplier with focus on the best solution for your business rather than a specific product.

Our ergonomic lifters handles everything from boxes and sacks, to cheese and windshields. We can turn, tilt and rotate heavy barrels, large panels and much more.



## Navigate our assortment



**Vacuum lifters** offer sustainable, safe and efficient handling of most types of goods up to 270kg.



**Mobile vacuum lifters** enable fast and efficient order picking and material handling. Ideal for high-speed order picking and warehouse lifting operations.



**Portable Lifting trolleys** offer easy and ergonomic lifting, moving and tilting of goods such as rolls and drums, with full flexibility and mobility.



**Crane systems & jib cranes** are the foundation for efficient lifting, customised and integrated to your workplace.




**Hoists & gripping tools** let you lift loads with optimal precision and accuracy. Stable and user-friendly.

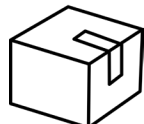


**Container unloading and loading systems** ensures efficient and ergonomic unloading/loading of trucks and containers.


## Customised solutions for various industries




Food & Beverage




Logistics




Wood, steel & glass



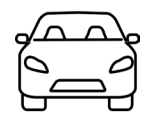
Pharma



Chemical



Airports & ports



Automotive

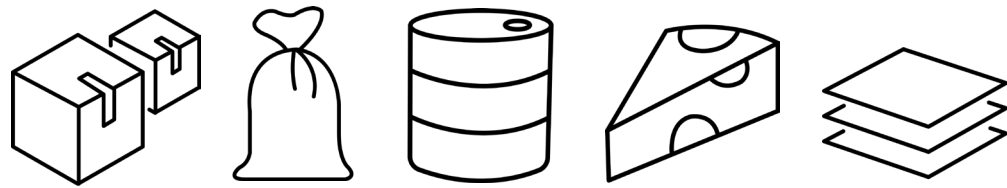
We offer lifting solutions used in manufacturing plants - including food, pharma, wood, automotive and chemical - as well as logistic operations at distribution centers, airports, retail stores and more.



# Speed up manual handling of goods with vacuum

TAWI vacuum lifters are extremely versatile, handling everything from simple boxes to blocks of meat or complicated car components, up to 270kg.

## What do you need to lift?



Vacuum lifters are robust and reliable tools that make lifting easy, for everyone. TAWI lifters are always designed with the user in focus, often customised for specific customer needs. 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.

Allow anyone to lift up to 270 kilos without effort. Giving everyone the ability to lift increases workforce flexibility, making it easy for employees to switch between work stations.



# TAWI Multifunctional Lifter

What do you need to lift? Choose between 12 models for lifting sacks, boxes, sheets, panels, crates, drums and much more, up to 270 kg.

- Ergonomic
- User friendly

**TAWI Multifunctional lifter** is a safe and reliable tool commonly used in manufacturing and mechanical processing, warehouses and distribution terminals.

**Anyone can handle** goods in all sizes, up to 270 kg, with practically no effort at all. No heavy lifting and no uncomfortable strain on the body means no more aching shoulders, backs, and knees.

**Extremely smooth and** quick operation is accomplished by using the same handle to lift, lower and release the load, and by using the vacuum to hold and lift the load.

**Stainless steel models**, ideal for industries with sanitary requirements, are available on request. The lift system can also be adapted for ATEX-regulated facilities.

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

## Key features

- Lift up to 270 kg** without physical effort
- Lifts most types** of loads, from boxes and sacks to laminate boards and cheese blocks
- Achieve drastic reduction** in heavy, repetitive lifting
- Easy to use**, anyone will learn how to use it within minutes
- High customisation** abilities
- Stainless steel** models and ATEX adapted systems available on request



Lifting above shoulder height is effortless and easy with our vacuum lifter.

## Smart functions



The handle can be tall or short, fixed or flexible, anything you need to reach your goods in an ergonomic way.



The direct driven pump minimises friction and unnecessary wear, ensuring continuous operations for your vacuum lifters.



“The vacuum lifter has greatly improved our work environment since we have eliminated all heavy lifting of kegs”

Mikael Dugge Engström,  
Founder & CEO of Dugges  
Brewery, Sweden

Lifting, rotating and placing heavy kegs or barrels is safe and easy with our multifunctional lifter.

## Standard models

Model	VM30	VM40	VM50	VM60	VM80	VM100	VM120	VM180	VM270
Lifting capacity (kg/lb)	30/66	40/88	50/110	60/132	80/176	100/220	120/265	180/397	270/595
Max length lift tube (mm)	2600	2600	2600	4000	4000	2500	4000	2500	2500
Lift tube ø (mm)	100	120	140	160	180	200	230	250	300
Stroke (mm)	1800/2600	1800/2600	1800/2600	1800/2600	1800/2600	1700/2400	1700/2400	1500/1800	1500/1800
Lifting speed (m/s)	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Pump	Medium	Medium	Medium	Large	Large	Large	Large	Large	Large

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

TAWI offers a wide selection of suction feet and ergonomic handles, allowing you to adapt the lifter to your specific needs.



# TAWI High Frequency Lifter

High-speed lifting has never been easier. Grip and lift boxes, baggage and other goods quickly and safely with just one hand.



Ergonomic



User friendly



Reduce load on body by 80%

**TAWI High frequency** lifter is an ergonomic and flexible lifting solution to speed up manual handling for loads up to 65 kg.

**The user friendly** design and functionality increases productivity and reduces the risk of injury.

**The lifter is** versatile and can handle a great variety of goods of different size, shape and weight.

**Lifting carton boxes** and handling baggage are the most common application areas for the high frequency lifter, but other industries, such as food industry clients, use the lifter for handling various loads such as blocks of cheese or meat, milk cartons or wine boxes.



“The lifter is a real benefit for everyone. The solution reduces the strain on the body, is easy to use and works with any bag”

Sam Streak  
Baggage handler/team leader, ASIG at Heathrow Airport, England

## Key features

- **High-frequency** lifting
- **Lift up to** 65 kg without physical effort
- **One-handed grip** with user friendly joystick handle
- **Customised suction feet** to suit your goods
- **Grip from the top** or from the side
- **Rotate loads** 360 degrees



Heavy baggage handling is easy and effortless with our high frequency vacuum lifter. The baggage can be rotated 360 degrees before it is placed and the angle adapter allows the operator to angle the suction foot at 90 degrees to pick up bags from the side.



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



One-handed grip with user friendly joystick handle.



Handling large and heavy boxes can easily be done by one single person with TAWI vacuum lifters.

## Standard models

Model	TP35	TP45	TP55	TP65
Lifting capacity (kg/lbs)	35/77	45/99	55/121	65/143
Max length lift tube (mm)	3000	3000	3000	3000
Lift tube ø (mm)	80	100	120	140
Stroke vacuum lifter (mm)	1840	1720	1720	1720
Lifting speed (m/s)	0-1	0-1	0-1	0-1

**Good ergonomics** is an effective way of making your business more productive and profitable. TAWI High frequency lifter makes lifting comfortable, safe, and very time-efficient.



# TAWI Panel Lifter

Lift, tilt and rotate large panels and sheets quickly and efficiently with the ergonomic TAWI Panel Lifter.

- Ergonomic
- User friendly

The **TAWI Panel Lifter** is specifically designed for the wood and construction industries, allowing one person to easily handle heavy and bulky loads with precision.

Its **ergonomic rotative handle** ensures optimal control of the lifting speed and maintains the load at a constant height. While also allowing for precise operations in the wood industry, such as panel lifting to saws at awkward heights and panel tilting for efficient storage.

This **innovative solution** is the perfect choice for anyone looking to make handling bulky and heavy materials easier and more efficient.

## Key features

- Lift up to 180 kg** without any physical effort
- Lifts most types** of loads from the wood and construction industries: sheets, beams, windows, doors, concrete...
- Increase productivity** by providing autonomy to operators while handling heavy or bulky loads
- Easy to use**, anyone will learn how to use it within minutes
- High customisation** abilities

## Technical specifications

Model	PL180 2000mm	PL180 2400mm
Lifting capacity (kg/lb)	180/397	180/397
Lifting speed (m/s)	0,27	0,27
Lifting height (mm)	2000	2400
Hose diameter (mm)	Ø250	Ø250
Suction cups	Customisable	Customisable

## Secure and precise panel handling

The **TAWI Panel Lifter** is the perfect fit for most operating processes in the wood and construction industries. It is capable of tilting wood sheets and panels up to 80°. It has been equipped with an extended arm for easy and ergonomic gripping of larger objects.

Using its **two-handed handle**, it has never been easier to lift and tilt heavy, bulky panels, beams, doors or concrete. In addition, the rotating handle allows lifting speed to be precisely controlled, and the load height is maintained at a constant level. This will ensure an ergonomic working position at all times. It also has an extra secure drop option that prevents the operator from accidentally dropping the load and keeps it balanced when not in use.

Our **customised suction cups** for porous surfaces enable reliable and safe handling of panels, sheets, concrete, beams, etc., in the wood and construction industries. By adapting the suction cups to the type of material, the vacuum lifter will always be perfectly suited to your lifting needs.

The **TAWI Panel Lifter** can also be tailored to accommodate all sizes, materials, and levels of porosity, making the Panel Lifter suitable for any application.



The ergonomic rotatable handle makes it easy to operate the device. It has never been easier to lift and tilt heavy, bulky panels using its two-handed handle.



The number of suction cups is adapted to your load so that the tool is always ideal for your lifting needs. The two-handed release function ensures a safe and easy grip and release of load.

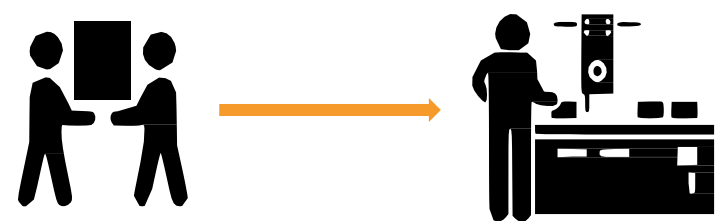


The TAWI Panel Lifter is ideal for handling sheets of wood. Add a tilting function and you can easily tilt loads of up to 80 degrees.



# Efficient warehouse logistics with mobile vacuum lifters & container unloading/loading systems

TAWI mobile vacuum lifters are the ideal solution when you need to speed up order picking, container loading/unloading, or any other logistic process. Our mobile solutions enables one person to do what has often been a two-man job.




Pick orders fast and effortless with an innovative mobile vacuum lifter. 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.

Quickly load and/or unload goods from container or trailer, with minimal physical effort. TAWI Container Unloader+Loader is revolutionising warehouse logistics as a fully mobile solution for safe unloading of containers.



# TAWI Container Unloader +Loader

A fully mobile vacuum lifter and conveyor belt, specifically designed for shipping containers. The unloader/loader improves efficiency and safety in various important operations, including unloading, loading and sortation.

-  Ergonomic
-  User friendly

It's revolutionising warehouse logistics because it's ideal for tight spaces like trucks and shipping containers. The Unloader/loader addresses warehouse and distribution centres' lifting needs by solving the lifting challenges with its mobility and adaptability to fit different operations.

Companies that manually unload/load containers put employees at risk of manual handling injuries due to repetitive lifting and fatigue. Manual handling can cause employees to slow down, resulting in the need for several people to complete the task. Consequently the task becomes more expensive and resource demanding.

By using the Container Unloader+Loader, you can save your business time and money with an efficient lifting solution for unloading and/or loading containers, while also providing a safe work space for your employees.

## Key features

- **Fully mobile** with wheels and a battery-powered system makes it easy to drive around to different doors or load/unload sites
- **Integrated vacuum lift** for ergonomic lifting up to 50 kg (110 lbs)
- **Easily switch between Unloading and Loading** operations
- **Flexible & modular** design for unloading to conveyor or pallet
- **Adjustable conveyor belt** can be adjusted upwards, downwards, inwards and outwards
- **Safe operator platform** that can be raised or lowered to give the user optimal reach
- **User-friendly controls** that operators learn quickly



The container unloader+Loader has a stabilised system with built-in balancing to help when traveling over inclines.

## Smart functions



The adjustable platform makes it easy to reach all boxes in the container, from top to bottom.



Battery powered device that can be driven around the facility.



With the TAWI Container Unloader+Loader any operator, no matter their size or strength, has the ability to reach all goods inside of a container, from the top to the bottom.

The flexible design makes it possible to unload items to conveyor or pallet.

## Adaptability and improved safety with the Container Unloader+Loader

- 1 Switching between unloading and loading operations**  
The conveyor belt is capable of both unloading and loading operations, at the flip of a switch. When loading, a stop sensor prevents items from overflowing
- 2 Ergonomic lifting**  
Using the ergonomic vacuum lifter is a one-handed operation. Operators can grip items from any angle, and rotate them freely (360° rotation). Also, it's on a mast that can be raised or lowered and on an arm that allows it to move side-to-side and forwards/backwards to help operators reach items.
- 3 Flexible & modular system**  
You can unload items to the conveyer belt or a pallet. The conveyer belt can be placed to the left, center, or right spot behind the platform.
- 4 User-friendly conveyor belt**  
The conveyor belt can be adjusted upward, downward as well as inward and outward for improved reach and optimal ergonomics for the user.
- 5 Safe operator platform**  
The platform can be raised or lowered to give the user optimal reach and safety rails can be moved into position behind the operator.



Case study: the Container Unloader at Yusen Logistics in Wellingborough, UK

Before the Container Unloader:

- Yusen had 5 operators unloading a container
- This process took 20 man hours and cost £400/€482

After the Container Unloader:

- Operators needed are reduced to 3
- Taking only 13 man hours, and costing £206/€248

This means that the Container Unloader saves them £111/€134 per container.

Increased workforce flexibility and diversity is another big benefit. Any operator can now take on the task of unloading containers.



“The Container Unloader will be a big benefit to help us reach our targets in the future.”

Steven Cletheroe  
Site Manager at Yusen Logistics,  
Wellingborough, UK

Background

- **Yusen Logistics** are operating 631 distribution centres in 47 countries with over 25,000 employees
- **Container unloading** is a labour intensive and time consuming process
- **Manual lifting poses** risk for accidents and injuries

Technical specifications

Vacuum Lifter Specifications

Available Lift Weight Capacities	50 kg / 110 lbs, 40 kg / 88 lbs
Lift Arm Reach	2 Meters / 6' 6"
Lift Mast at Highest Position	2625 mm / 103"
Lift Mast at Lowest Position	2125 mm / 84"
Lifting speed (m/s)	0-1

Belt Conveyor Specifications

Belt Weight Capacity	80 kg/m / 175 lbs/m
Variable Belt Speed	0.1 to 0.5 Meters per Second, 0.3 to 1.6 Feet per Second
Conveyor Assembly Width	600 mm/24" / 900 mm/35"
Belt Width	450 mm/17" / 750 mm/30"
Belt Length	3300 mm/129"

Platform Specifications

Platform Length x Width	735 mm x 1835 mm / 28" x 72"
Platform Weight	550 kg / 1220 lbs
Platform Maximum Raised Height	865 mm / 34"
Platform Speed	0.06 Meters per Second / 0.19 Feet per Second
Unit Driving Speed	0.2 Meters per second / 0.7 Feet per Second
Platform Weight Lifting Capacity	270 kg / 600 lbs
Platform Weight Support Capacity	330 kg / 725 lbs
Power Requirements*	100V-240V +/-10% / 380V-480V +/-15% / 50/60Hz

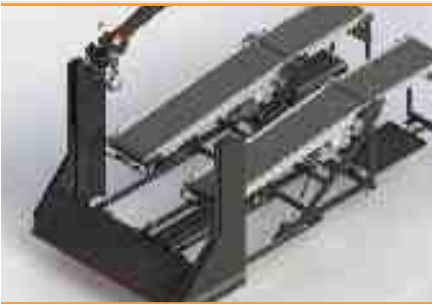
\* For Battery Charging / Vacuum Pump Power / Conveyor Power

Impressive ROI demonstrations

	Third-party logistics		Textile company		Appliance company	
	Before Container Unloader	After Container Unloader	Before Container Unloader	After Container Unloader	Before Container Unloader	After Container Unloader
# of people	4	3	4	4	3	2
# of hours	6	4	5	2,5	3	3
Total man hours	24	12	20	10	9	6
Labour rate	€19,50	€19,50	€21,60	€21,60	€18,90	€18,90
Cost to unload 1 container	€468,00	€234,00	€432,00	€216,00	€170,10	€113,40



RSingle Powered Conveyor



Two Powered Conveyors




Stationary Pallet Stations

# TAWI Mobile High Frequency Lifter

The TAWI Mobile High Frequency Lifter is a versatile lifting solution that is easy to use along the logistics processes, from container and truck unloading, to order picking, or conveyer to pallet.

 Ergonomic

 User friendly

**Based of our most efficient lifters**, the High Frequency Lifter, we developed the Mobile High Frequency Lifter.

**Quickly grip and lift** boxes, sacks, baggage or other packaged goods up to 50 kg without any effort. Featuring a comfortable handle for one-hand use, you can swiftly lift and move goods with high speed.

**Requiring only an external power supply** for implementation, it is perfect for logistics centres and other operations where speed is of the utmost importance.

**With a reach ranging from 2.1m to 2.6m in height**, it is perfect for use in areas with limited headroom such as unloading containers, picking orders, and conveying to pallets. The arm of the Mobile High Frequency Lifter comes in both carbon fibre and steel, giving you the flexibility to choose the arm that best suits your application.

## Key features

- **Versatile** and mobile
- **No unique** installation required
- **Plug-and-play** solution
- **Up to 50 kg** lifting capacity
- **Eliminate** all lifting strains
- **Customisable** to meet the needs of different types of loads



The mobile high frequency lifter can reduce two-person lifts to one and be split across contracts to reduce labour.

## Smart functions



Low-built articulated arm in either steel or carbon with a height reach of 2.1m to 2.6m



A mobile, versatile plug&play solution and a compact design for maximum flexibility.



Easy to use along the logistics process from container and truck unloading, order picking, or conveyer to pallet.



## Technical specifications

Product model	MHL40	MHL50
Max load*	40kg	50kg
Arm type	Carbon / Steel	Carbon / Steel
Total weight	695kg	695kg
Sound level**	55dBA	55dBA
Power	2,2kW	2,6kW
Frequency	50Hz	60Hz
Voltage (3-Phase N + PE)	200V / 220V / 230V / 265V / 400V / 460V	200V / 220V / 230V / 265V / 400V / 460V
Lifting speed	0-1m/s	0-1m/s
Enviroment	Normal indoor industrial enviroment	Normal indoor industrial enviroment
Labeling	CE and UKCA***	CE and UKCA***



# TAWI Mobile Order Picker

This mobile vacuum lifter enables one person to do what has often been a two-person job. The order picker allows you to move quickly between picking stops, putting goods onto pallet with minimal physical effort.

-  Ergonomic
-  User friendly

**The Mobile Order Picker (MOP)** is a mobile vacuum lift unit compatible with any forklift or LLOP. It offers a unique solution for order-picking from pallet racks, shelves or conveyors. Simply pick up the lifting unit with any kind of pallet jack or truck and drive wherever you need to go.

With a wide selection of suction feet, you can easily find the tool needed to lift your goods. Pick and lift boxes, sacks, drums and more. Need to lift more than one type of load? Add a quick coupling and easily switch between tools for various types of loads.



“The Mobile Order Picker provides a safer and more efficient method of picking and placing products, reducing the risk of injuries and improving productivity”

Rob Hamborg, UK Site Manager at Yusen Logistics

## Key features

- **Mobile vacuum lifter** easily attached to any forklift
- **Safe & ergonomic** lifting up to 80kg/176lbs
- **Stand-alone unit** - no installation time
- **User-friendly and quick** start-up
- **Integrated pump and battery** with quick change of battery pack
- **Multiple tools for** lifting anything from boxes and sacks to drums and batteries
- **Available in three** versions depending on your needs



Ergonomic and safe lifting of heavy boxes.

## Smart functions



A user-friendly parking system holds the jib arm safely in place. The vacuum pump automatically shuts off when the arm is parked.



Quick change of battery pack, done in a minute. Available with both lithium and lead/acid battery.



Achieve successful warehouse order fulfilment with our mobile order picker.

The load can be rotated 360 degrees before it is placed on the pallet, facilitating efficient utilisation of the pallet space.

## User-friendly and quick start-up

- 1 **Attach TAWI Mobile** order picker to any pallet jack or truck.
- 2 **Drive where you** need to go.
- 3 **Park the unit** and activate the pump with the push of a button. Support legs are automatically lowered.
- 4 **Start loading/unloading** your goods.





# The Mobile Order Picker (MOP) is available with three different lifter types

These versions ensures that we have a solution for your specific needs.

## Multifunctional Vacuum Lifter (VM)

**Ideal for:** handling heavy and bulky goods such as large boxes, sacks & drums.

**Lifting capacity:** 40kg/88lbs-80kg/176lbs.



## High Frequency Lifter (TPH)

**Ideal for:** low-headroom applications and for high-speed handling of light to medium heavy loads.

**Lifting capacity:** 40kg/88lbs-50kg/110lbs.



## EasyReach Lifter (ER)

**Ideal for:** lifting goods deep inside pallet racks. Allows the operator to stand comfortably in the aisle while lifting a box from the back end of a pallet in the rack.

**Lifting capacity:** 40kg/88lbs-50kg/110lbs.



The TPH lifter allows for quick and smooth handling of higher loads up to 50kg/110lbs.

You can easily handle a wide variety of goods including parcels, sacks and drums.

## MOP - Technical Specifications

Model	VM40	VM50	VM60	VM80	TPH40	TPH50	ER40	ER50
Lifting capacity [kg / lbs]	40 / 88	50 / 110	60 / 132	80 / 176	40 / 88	50 / 110	40 / 88	50 / 110
Lift tube [mm]	120	140	160	180	100	120	160	180
Stroke vacuum lifter [mm]	1350	1300	1300	1250	1540	1540	1300	1250
Stroke tower [mm]	500	500	500	500	500	500	-	-
Noise level, Idle [dB(A)]	76	76	76	76	68	68	76	76
Max lifting height [mm]*	1521	1476	1457	1398	1540	1540	1370	1370
Weight [kg / lbs]	655 / 1444	658 / 1450	658 / 1450	660 / 1460	660 / 1460	660 / 1460	700 / 1543	710 / 1565
Battery capacity Lead/Acid	360 Ah							
Battery capacity Li-Ion	405 Ah							
Input voltage Lead/Acid	200-260VAC 50-60Hz							
Input voltage Li-ion	3x 400-480VAC +/-15% 50-60Hz							
Charge time Lead/Acid	07h50m							
Charge time Li-ion	01h52m							
Run time Lead/ Acid	04h12m	04h12m	04h12m	04h12m	06h02m	06h02m	04h12m	04h12m
Run time Li-ion	05h38m	05h38m	05h38m	05h38m	08h32m	08h32m	05h38m	05h38m

\* measured from bottom of suction head and tower in lowest position.



# Customisable lifting trolleys

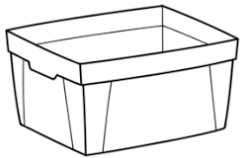
The robust and user-friendly lifting trolleys are easily adapted in height, width and strength to meet your specific requirements. Pick up goods in one place, move them effortlessly, and lift them in place where you need them.



Lifting and transporting reels



Handling and emptying drums



Lifting and tilting crates



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 reels, 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. Reels 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 Lifting Trolleys

Lift, move, tilt and rotate goods up to 250 kg, with optimal precision and minimal effort.

-  Ergonomic
-  User friendly

**We know the** importance of flexibility and mobility and that is why our portable lifting devices do not only lift but also rotate, turn and tilt goods.

**Reels 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.

**The lifters' modular** construction allows easy adaptation to suit your specific business needs. We provide a wide selection of tools for ergonomic handling of reels, drums, crates, boxes and more, with lifting capacities ranging between 40-250kg.

**Several safety features** help ensure safety for both user and load. All models are equipped with a safety mechanism that immediately stops the lifter if the tool hits an object during lowering. This means that the lifter will not tip over, but also ensures that it will not hurt anything that happens to come in the way.

## Key features

- **Mobile lifting** device
- **Lift up to 250 kg** without physical effort
- **Wide selection of** tools for various types of loads such as reels, drums, crates and boxes
- **Ability to not** just lift and transport loads, but also rotate, turn & tilt goods
- **Modular construction** allows easy customisation
- **Stainless steel** models and ATEX adapted trolleys available on request



## Stainless steel lifters

The range of TAWI Lifting Trolleys include several stainless steel models, often used in food- or pharmaceutical manufacturing where cleanliness is of great importance.



For the most sensitive environments we offer a IP65 certified cleanroom trolley, the CR80, designed to operate in the most demanding work environments and withstand high-pressure cleaning.

## Technical specifications

Model	PRO40	PRO80	PRO140	PRO180	PRO250	PRO-100ESE	PRO-200ESE	CR80	Light60
Lifting capacity (kg/lb)	40/88	80/176	140/309	180/397	250/551	100/220	200/441	80/176	60/132
Stroke (mm) short/ medium/long	-/ 1040/-	860/ 1400/1950	840/ 1390/1940	840/ 1390/1940	-/ 1360/1910	-/ 1360/1910	-/ 1360/1910	1545	1590
Weight of unit (kg) short/medium/long	-/41/-	46/50/53	69/73/78	77/81/86	-/107/113	-/115/120	-/152/158	46	35
Height (mm) short/ medium/long	-/ 1640/-	1440/ 1990/2540	1440/ 1990/2540	1440/ 1990/2540	-/ 1990/2540	-/ 1990/2540	-/ 1990/2540	1990	1980
IP-rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24	IP65	-
Battery charging	100-240V, grounded 50-60Hz								
Lifts per charge	100 x 1m								
Up and down motions	Control panel (one speed)	Hand control (two speed)						Joystick (variable speed)	Push buttons
Front wheels	Swivelling	Swivelling	Fixed					Swiveling	
Brake system	Separate rear wheel brake	Central brake with directional lock						Separate rear wheel brake	Single brake rear wheels
Overload protection	Incorporated in circuit load								



The ergonomic design makes the lifting trolleys comfortable and easy to drive, no matter how short or tall you are.



Ergonomic and easy to use trolleys enable anyone to lift and move heavy loads in a safe way



Ergonomic handle for easy and comfortable operation. The lifter is belt driven which ensures quiet and smooth oil free drive.



User-friendly and ergonomically positioned hand control, easily detached for optimal operation.



On several models, the measures of the wheels make it possible to drive the lifter into a Euro-pallet in three different ways.

## Tools & accessories



### PLATFORM

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



### FOLD UP PLATFORM

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



### BOOM

Ergonomic reel handling. Lift and transport reels onto shafts and machines without effort.



### ROLLER BOOM

Equipped with rollers for effortless loading and unloading of reels. Safety pin for safe transportation.



### TUBE FORK

Easy handling of reels from their outer surface.



### CRANE ARM WITH HOOK

Handling of various goods. Optimal for reaching into narrow spaces.



### FORK FOR SHAFTS

Precise handling of reels on shafts into machine.



### COREGRIPPER

Reel 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.



Customer experiences

At Rockwool in Belgium, the lifting trolley is used daily to transport large metal parts from storage to mounting on machines.

“The investment in TAWI lifting equipment pays off quickly due to the obvious health benefits for the employees”

Danny Flass, Production site supervisor, Rockwool Belgium



“Thanks to the investment in TAWI Lifting Trolleys, we are able to avoid heavy manual handling and minimise the strain on worker’s backs, shoulders and knees”

Lars-Erik Heland, Project Engineer, SCA Hygiene Products AB

Transporting 80 kg rolls effortlessly in food industry packaging



Clarebout, producer of pre-fried and frozen potato products, have invested in their employee’s health and wellbeing.

At their production site in Belgium, employees lift and transport 80 kg film rolls from pallets to packaging machines. The heavy rolls are not easy to lift, tilt and transport in an efficient and ergonomic way, but TAWI lifting solutions have made it possible.

The lifters make it possible for one person to lift and move 80 kg rolls to the packaging machines without putting any harmful strain on the body. The lifting trolleys are used continuously throughout the work shifts, ensuring an efficient and smooth packaging process.

TAWI Lightweight Trolley

A comfortable and cost-efficient solution for handling goods in small spaces. Ideal for use in retail stores, workshops, archives or warehouses.

With a compact and lightweight design, TAWI’s lightweight trolley is ideal for handling goods in cramped spaces and narrow aisles. The trolley is just under 60cm wide, allowing you to drive through even the narrowest aisle or passage.



Goods are placed on the trolley’s platform, enabling you to handle a wide variety of goods. The platform is easily positioned on the same height as the shelf, allowing goods to slide over from the platform to the shelf (or the other way around).

Key features

- **Light weight** and compact design
- **Lift and move** a variety of boxes, crates, and other goods up to 60 kg
- **Great mobility** – easy to use
- **High-speed** elevation
- **Ideal for narrow aisles** in stores, workshops etc.
- **Quick delivery** – delivered in flat package



The platform moves at 125mm/s (that is really fast!) ensuring that goods can be put on shelves quickly.

Thanks to the compact design the trolley will not get in your way, even in a cluttered workshop or busy commercial kitchen. Workers use the trolley to retrieve goods from shelf and move them to their workstation where they can easily slide them over to a benchtop, or even work with the goods placed on the trolley.

With the wheels locked the trolley will stand still and allow you to safely use the platform as an extra workspace.

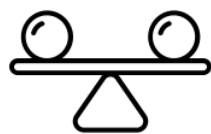


# Stable precision lifting with hoists and gripping tools

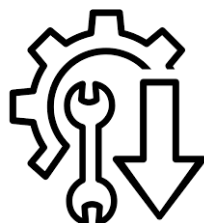
An electric hoist is ideal when you need to lift with stability and control. Our wire hoists are faster than most, and great for precision lifting when you need full control of your load. For heavier lifting and lifting in tough conditions we offer powerful and durable chain hoists.



Precision



Stability



Low maintenance

TAWI Wire Hoist is the preferable choice when you need to lift with speed and precision. The TAWI Chain Hoist is very powerful and durable, the right choice for heavier loads and for lifting in tough conditions.


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.





# TAWI Wire Hoist & Chain Hoist

TAWI offers hoists for all types of applications, providing effortless lifting without hassle.

-  Ergonomic
-  User friendly

**TAWI Wire Hoist** 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.

- Lifting capacity 60/120kg
- Up to 0.75 m/s lifting speed, variable speed control
- User-friendly joystick handle, easy and ergonomic to work with

**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.

- Lifting capacity <2 500 kg
- IP65, suitable for outdoor use

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

## Key features

- **Stable precision lifting**
- **Low energy consumption**
- **Low cost of ownership**
- **Easy to install** and requires minimal maintenance
- **Lift various goods** such as rolls, batteries, metal profiles and car components
- **Wire Hoist** - lift up to 120 kg with high speed
- **Chain hoist** - lift up to 2500 kg

## Technical specifications

Model	VH60	VH120	Chain Hoist
Lifting capacity (kg/lb)	60/132	120/265	<1600/3527
Lifting speed (m/s)	0.75	0.35	8/2 m/min
Power supply	230V +/-10%	230V +/-10%	3x400V
Lifting height (mm)	2000	2000	4000
Speed control	Variable	Variable	2-speed
Frequency	47-63Hz	47-63Hz	50Hz

## Hoist tools and grippers for every load

**When you need** to lift goods of various sizes, TAWI Easy Grip is the tool for you. The Easy Grip tool can be used together with TAWI Wire Hoist and this flexible tool carefully grips and lifts all kinds of packaged goods. Thanks to the flexibility of the tool you can handle loads of varying size and shape. .

**TAWI vacuum gripper** is available in two standard models but can also be customised to meet specific customer requests. Mounted in a chain hoist the TAWI vacuum gripping tool allows easy and efficient handling of all types of sheet materials.

**Using an electric** or pneumatic vacuum source, the vacuum gripper safely holds big sheets of glass, metal, wood or plastic. The vertical model allows 90 degree tilt and holds up to 250 kg, while the horizontal model can handle heavier loads, up to 500 kg.

**Our vacuum gripper** is easy to use and helps ensure an ergonomic and efficient work environment. The pneumatic tool is reliable and safe, stacking heavy sheets has never been easier.



The hoists can be easily combined with other TAWI lifting solutions. Here the wire hoist is used to lift heavy film rolls from a pallet, tilt them and then put them on a portable trolley. The trolley is then used for transporting and mounting the rolls into packaging machines.



The user-friendly control panel makes the gripper easy to use, and ensures an ergonomic working position at all times.



The number of suction cups is adapted for your load so that the tool is always ideal for your lifting needs. Two-handed release function ensures safe and easy grip and release of load.

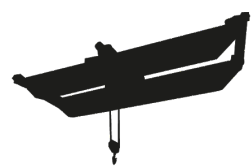


Lifting multiple items with precision is possible with the reliable wire hoist.

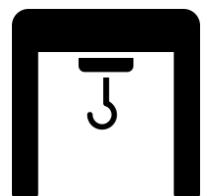


# A reliable foundation for efficient lifting

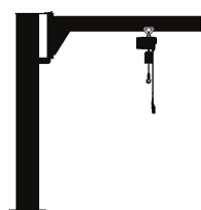
A crane system built for your needs, integrated in your workflow, will help ensure efficient lifting and productive processes. TAWI Overhead Bridge Cranes and Jib Cranes give you the freedom to lift and move goods exactly where you need them.



Ceiling mounted systems



Floor mounted systems



Jib cranes

TAWI crane systems offer flexible solutions for mounting lifters so that you can use them wherever you need to. Steel or aluminium profiles can be mounted in the ceiling or on floor pillars, built to match your facilities and meet your business needs.

No matter how your facilities are constructed, we can build an overhead crane system that is ideal for your conditions.



# TAWI Overhead Crane Systems & Jib Cranes

TAWI crane systems are adapted for specific customer requirements, securing optimal suspension of lifters and ideal workflow for your business.

**TAWI Jib Cranes** can be mounted on wall or pillar and portable options are available. If mobility is important, articulating jib arms offer a great range of motion, while portable jibs can be moved around your facilities to be used wherever you need them. When you only need to lift in one place, an over braced jib crane is the strongest and most stable solution.

With a selection of standard jib cranes, and the ability to modify cranes to customer requests, we can provide an optimal solution for your business.

**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 business needs.

**We have solutions** for suspending the crane system directly in the ceiling or in roof beams. Our systems offer powerful suspension up to 1 500 kg lifting capacity and up to 8 000 mm between suspension points.

## Key features

- **Aluminium or steel** profiles
- **Mounted in** ceiling or on floor pillars
- **Suspended directly** in ceiling or in roof beams
- **Move vacuum lifters** or hoists by manual power or remote control
- **Portable jib cranes** for greater flexibility
- **Customised systems**, easily integrated in your workflow



Stable trolleys run smoothly in the profiles, steadily moving your lifter to where you need it.

## Customised for your business



Our steel or aluminium profiles can be mounted in the ceiling or on floor pillars, built to match your facilities.



TAWI Jib Cranes can be mounted on wall or pillar and portable options are available.



TAWI crane systems are customised to fit your business and help streamline your operations. The system can be a single girder running along a production line, or a vast system covering an entire logistics unit.

## Full range of systems

By adapting the crane system for your individual business needs, we produce a lifting system that will facilitate lifting, increase productivity and support a healthy work environment.

Our range of crane systems and jib cranes include:

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





# Reliable and safe material handling in sensitive environments

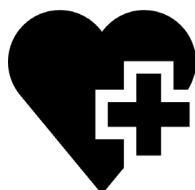
We enable our customers to lift safely even in the most demanding environments. The TAWI range of ATEX and cleanroom lift systems ensure safe and ergonomic lifting in food-, pharma- and chemical manufacturing plants all over the world.



High sanitation  
demands



Potentially  
hazardous areas



Health & Safety


Moving and lifting potentially hazardous or flammable chemical products requires equipment that is extremely accurate, reliable, and hygienic. TAWI has you covered.

Handling food and food products requires the highest level of sanitation and quality as well as a secure, yet delicate, touch. Our stainless steel lifters are perfectly suited for those demanding environments.

TAWI stainless steel lifters also provide the ideal lifting equipment for cleanrooms. Specifically designed for the meticulously controlled environments common in pharmaceutical manufacturing.

# TAWI solutions for sensitive environments

Achieve maximum safety for both workers and goods with our ergonomic stainless steel lift systems, adaptable for both ATEX zones and cleanroom areas.

-  Ergonomic
-  User friendly

**For sensitive environments** where cleanliness is key, stainless steel lifters offer efficient lifting without compromising hygiene requirements.

**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.

**Stainless steel vacuum** lifters are available in various models lifting up to 270 kg. The lifters are easy to keep clean and can be custom made to meet your specific hygiene requirements.

**In hazardous environments** where ATEX regulations apply, we offer vacuum systems, cranes and lifting trolleys approved for ATEX use. TAWI ATEX systems are approved for use in ATEX zone 1 and 21, 2 and 22. Contact us and get expert advice for your specific ATEX requirements.

## Key features

- **Stainless steel systems** including vacuum lifters, crane systems and lifting trolleys
- **Washdown, cleanroom adapted** equipment
- **ATEX rated solutions**, approved for use in ATEX zone 1 and 21, 2 and 22.
- **Safe and reliable** material handling
- **Customised systems** for your requirements
- **Ergonomic lifting up to 270 kg**



Customised suction feet for whatever you need to lift.

## Increased productivity at Hempel

Hempel is a world leading company in paints and coatings for the industrial, naval, nautical and decoration markets.



Hempel have invested in TAWI ATEX-rated systems for handling paint drums and vacuum lifters to speed up sack handling between pallets.

The lifting solutions have made it possible for the workers to increase productivity without any additional effort.



TAWI Lifting Trolleys offer a wide selection of tools for handling various goods such as reels, drums, crates, boxes and more.

## ATEX rated systems for drum handling at Jotun Paints

Jotun Paints Europe Ltd. uses highly flammable solvents and resins in the manufacture of paint related products.

Jotun currently have TAWI vacuum lifting equipment in various designs and capacities in order to meet the requirements for different plant designs.

“The equipment is easy to use and completely removes the need for the operator to handle the item”

Darren Dawson, Legal Compliance Specialist, Jotun Paints (Europe) Ltd.







# Smart lifting

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*For the rest of the world, TAWI offers efficient and reliable solutions through its network of local partners. To find the partner closest to you, simply visit [tawi.com](http://tawi.com) and contact the partner of your choice.*