

PALOMAT Get a PALOMAT® for testing

- and experience the numerous benefits.



- The PALOMAT® stacks and destacks empty pallets one at a time. All pallets are handled at floor level.
- The PALOMAT® automatically lifts/ lowers the entire pallet stack to easily allow you to insert a new pallet at floor level using e.g. a hand pallet truck. A touch panel is used to operate the machine.
- It is possible to insert a complete stack of pallets (15 or 25 pallets) or take out a complete stack from the PALOMAT® – without using a truck.

A Tidier Work Place ● Improved Work Environment ● Increased Earnings



- Vacuum Systems
- Lifting Trolleys
- Industrial Manipulators
- Air Skates

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 270kg.



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 270kg, 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.

Lifting, moving and placing large wooden sheets with our multifunctional lifter is safe and reliable. Tilt or turn sheets up to 360°.

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 270kg 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 customization abilities
- Stainless steel models and ATEX adapted systems available on request

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.



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

Key features

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

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

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.

TAWI Mobile Order Picker

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



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 utilization of the pallet space.

Key features

- Mobile vacuum lifter
- Easily attached to any forklift
- Quick start-up
- Stand-alone unit
- Integrated pump/battery
- Multiple tools for lifting anything from boxes and sacks to laminate boards
- Lift up to 80 kg without physical effort

The mobile order picker is a mobile vacuum lift unit compatible with any LLOP.

TAWI Mobile order picker offers a unique solution for orderpicking from pallet racks, shelves or conveyors. Simply pick up the lifting unit with any kind of pallet jack or truck and drag or drive wherever you need to go.

The order picker is easily adjusted in height to match the height of your pallet racks.

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

TAWI Easy Reach Tool

An Easy Reach tool on your TAWI Mobile Order Picker will enable optimal efficiency in order picking and storage utilization.



Thanks to the weight distribution of the Easy Reach tool, the operator can stand comfortably in the aisle while lifting a box from the back end of a pallet in the rack.

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

Key features

- High speed order picking
- Reach all the way into pallet racks
- Easily pick goods stacked closely to the shelf above
- Lift up to 50kg without physical effort
- No more bending into pallets and lifting in uncomfortable positions

Using our mobile order picker with the Easy Reach tool allows the operator to easily reach into pallet racks, picking goods from the back end of a pallet without moving a muscle. This saves the operator from lifting in uncomfortable positions.

With the Easy Reach tool, you can easily pick goods stacked closely to the shelf above, allowing optimal utilization of storage space. No need to store bulky, heavy goods outside pallet racks anymore.



TAWI Wire Hoist & Chain Hoist

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



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.

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 120kg with high speed
- Chain hoist - lift up to 2,500kg

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 2,500kg. 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 <2,500kg
- 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.

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 crane systems are customized 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.

Key features

- Aluminium or steel profiles
- Mounted in ceiling or on floor pillars
- Suspended directly in ceiling or in roof beams

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 8,000mm between suspension points.

- Move vacuum lifters or hoists by manual power or remote control
- Portable jib cranes for greater flexibility
- Customized systems, easily integrated in your workflow

Customized solutions for various industries

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.



Logistics



Chemical



Food & Beverage



Wood, steel & glass



Airports & ports



Automotive



Pharma



TAWI Lifting Trolleys

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



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 250kg 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 customization
- Stainless steel models and ATEX adapted trolleys available on request
- Ergonomic
- User friendly

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



TAWI 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.



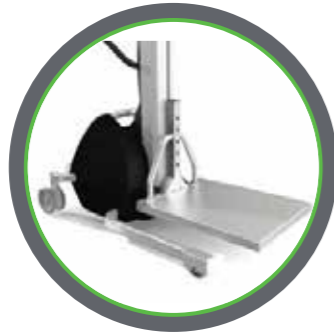
Technical specifications

Model	PRO40	PRO80	PRO140	PRO180	PRO250	PRO-100ESE	PRO-200ESE	CR80
Lifting capacity (kg)	40	80	140	180	250	100	200	80
Stroke (mm) short/medium/long	-/1040/-	860/1400/1950	840/1390/1940	840/1390/1940	-/1360/1910	-/1360/1910	-/1360/1910	1545
Weight of unit (kg) short/medium/long	-/41/-	46/50/53	69/73/78	77/81/86	-/107/113	-/115/120	-/152/158	46
Height (mm) short/medium/long	-/1640/-	1440/1990/2540	1440/1990/2540	1440/1990/2540	-/1990/2540	-/1990/2540	-/1990/2540	1990
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)
Front wheels	Swivelling	Swivelling	Fixed					
Brake system	Separate rear wheel brake	Central brake with directional lock						Separate rear wheel brake
Overload protection	Incorporated in circuit load							

Tools & accessories

**Platform**

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

**Fold-up Platform**

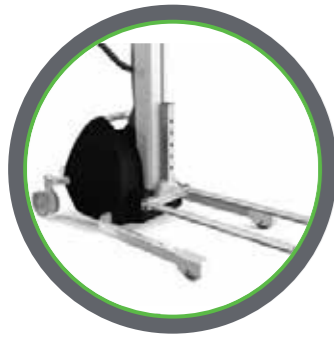
Flexible tool with fold up platform and fork tool. Lift boxes and crates with the same tool.

**Boom**

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

**Roller Boom**

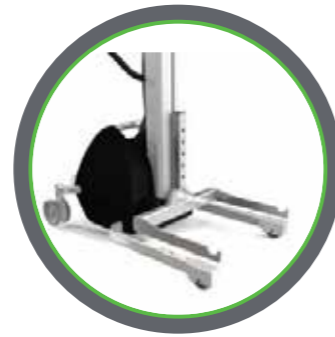
Equipped with rollers for effortless loading and unloading of reels. Safety pin for safe transportation.

**Tube Fork**

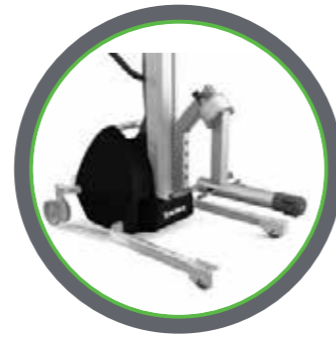
Easy handling of reels from their outer surface.

**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.

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.



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 270kg. 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
- Customized systems for your requirements
- Ergonomic lifting up to 270kg



Industrial Manipulators



Our manipulators range are tested in a dedicated area with simulation of the real movements expected at the customer's site.

Thanks to an in-depth study and surveys carried out by one of our sales technicians, a series of ad hoc gripping tools are created in order to make the movement of the components as ergonomic as possible. In fact, a recent study has shown that the use of manipulators in the industrial field increases productivity by 30% thanks to the simplicity of some operations that were previously considered a problem.



The manipulators are divided into two families: Fixed Or Sliding Column or Wall Units

MC 100

The manipulator model MC 100 is the most sought after machine by our customers as it is particularly robust, versatile, easy to handle and equipped with specific tools, it is able to satisfy most of the manipulations in the industrial sector.

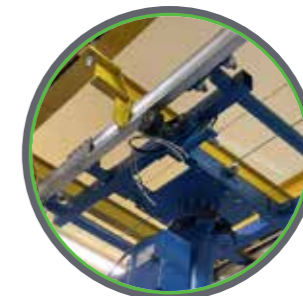
Operation exclusively with compressed air With a column fixed to the ground or on a stable car base, it allows to carry out movements with components with an offset center of gravity. Thanks to the pneumatic parking brakes it is possible to carry out operations on board while keeping the boom static.



Accessories



Forkable Base



Motorized Trolley



Travel Limiter

Gripping Tools



Spindle Coils



Mechanical Gears



Oil Drums



Alloy Wheels



Suckers Panels



Stators



Production place

How our supplier operates

Project: All components are produced within our suppliers headquarters in Italy by carrying our random checks to ensure their geometric and structural quality.

Preassembly: Once the check has been carried out, we proceed with the pre-assembly of the machines in order to verify that the assemblies are perfectly compatible and respect the initial project.

Testing: After the painting phase, the machines are assembled and wired within the area where the tests will be carried out.

Installation: It is performed by our specialized staff by installing the turnkey machine in the correct position to meet the coverage of the work area for which it was designed and built.



LMS Air Skates

Air Skates are a cost effective way of handling heavy and bulky loads.



Air skates are robust, low profile, high capacity load-moving modules used in sets of four or six to enable large or heavy objects to be moved with ease.

Easy to use and store

LMS Air Skate systems are easy to set up and operate. One system can be used for a variety of loads, and can be conveniently placed in the storage box provided when not in use.

Omnidirectional movement and precise positioning

LMS Air Skate systems are omnidirectional and enable precise positioning of heavy loads in tight or narrow spaces. Normal shop compressed air is used to power the system. Storage box provided when not in use.

No floor wear

Modular Air Bearing Systems float heavy loads on a thin film of air virtually eliminating friction and causing no floor wear.

How they Work

The air skates are connected with a hose manifold and supplied with compressed air. With the air turned on, the flow to each air skate is regulated to accommodate the load and floor conditions, allowing the load to be lifted clear of the floor.

Features

- Working load capacities of up to 100 tonnes and higher
- Move loads in restricted areas where forklifts/cranes cannot reach
- Easy to set up with quick release couplings
- Powered by a regular workshop air supply of 5 to 7 bar
- Easy to use and cost effective
- Low floor pressures
- Modular capability giving ultimate versatility
- Accurate and repeatable positioning with omnidirectional capability
- Low profile skate modules for ease of location underneath loads



LMS Modular Air Bearing System (MLS)

Technical information for a 4-module system.

Type ¹	Capacity per set of 4 ²		Air consumption ³		A (mm)	B (mm)	C (mm)	D (in)	E ⁵ (in)
	(kg)	(lbs)	NI/min	SCFM					
MLS 412X-S-A	7000	15400	1120	39	304	31/514	15	1/2	1
MLS 415X-S-A	10000	22000	2200	77	380	31/514	20	1/2	1
MLS 418X-S-A	11200	24200	2600	92	457	58	20	3/4	1
MLS 421X-S-A	14000	31000	3000	106	534	58	25	3/4	1
MLS 427X-S-A	24000	53000	3400	120	684	65	35	3/4	1 1/2
MLS 436X-S-A	44000	97000	4000	141	914	71	50	3/4	1 1/2
MLS 418X-H-A	20000	44000	4600	162	457	58	20	3/4	1
MLS 421X-H-A	28000	62000	5200	184	534	58	25	3/4	1 1/2
MLS 427X-H-A	48000	106000	6000	212	684	65	35	3/4	1 1/2
MLS 436X-H-A	80000	176000	7000	247	914	71	50	1	1 1/2
MLS 442X-H-A	120000	265000	7500	262	1070	71	65	1	2
MLS 448X-H-A	160000	353000	8000	282	1220	71	75	1	2
MLS 460X-H-A	240000	528000	11000	388	1505	71	75	1	2

¹ 'A' refers to standard plastic support bars under the control unit. Other features are available under 'Options' below.

² The modules must be placed under the load so that each one sees no more than one quarter of the full system capacity.

³ These figures refer to good floor conditions, i.e. power-trowelled and sealed concrete surfaces.

⁴ Cast aluminium/Extruded aluminium construction.

⁵ Supply hose ID and shut-off-valve thread size.

The Modular Air Bearing System includes:

- 4 air bearing modules
- 4 interconnection hoses with quick release couplings
- Control unit equipped with pressure regulator and gauge for each module, supply pressure gauge and plastic support bars
- 30m supply hose including shut-off valve
- Storage box, operating instructions

Optional:

- Control unit equipped with ball casters (B), assembly brackets (C) or swivel wheels (D)
- 8m or 10m interconnection hose
- 50m supply hose including shut-off valve
- Outlets for air jacks and external drive units

