



# TAWI ergonomic lifting equipment

Swedish quality. Global solutions.

Ergonomics is about adjusting work and work environments to the needs of the employees. It's about planning and organizing work in a way that contributes to healthy employees and minimizes the risk of injuries and long term health challenges. Good ergonomics is an effective way of making your business more productive and profitable.

TAWI lifting equipment has been facilitating ergonomic material handling for decades, and by customizing our solutions to your specific needs we can guarantee that they will help lift your business.



Your contact person at TAWI is only a phone call away...



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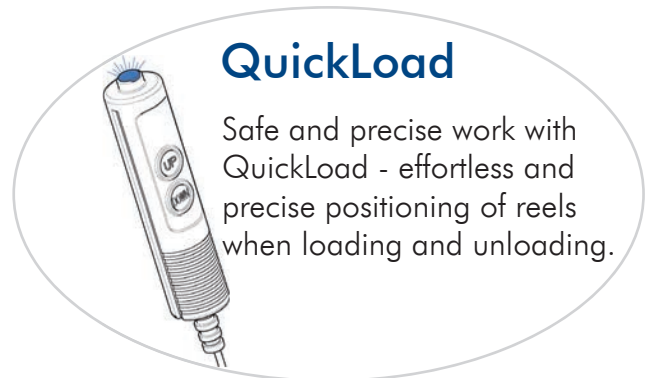
More information available at [www.tawi.com](http://www.tawi.com)

# Increase efficiency, safety and ergonomics with Protema lifters



Protema lifters are easy to maneuver and push forward making it almost effortless to transport goods to the intended location.

You can pick up goods from a vertical or horizontal position, rotate, transport, turn and release with minimum effort.



## Protect your employees

Goods are easily picked up with no physical effort for the operator.

Handling difficult and heavy goods such as these large reels is easy with Protema electric lifters. No heavy lifting and no uncomfortable strain on the body means no more aching shoulders, backs and knees.

## Boost efficiency and lower the costs

Using TAWI lifters means that large and heavy goods can be handled by one single person, saving valuable time and resources for your business.

The challenge of increasing productivity and ergonomics at the same time is increasingly important for more and more companies. Our focus is to help you achieve this.

# A new generation

## Variable mast size

Variation of lengths to meet your requirements



## User friendly control panel

- Emergency stop
- Integrated operation controls for tooling
- Service indicator
- Battery status display

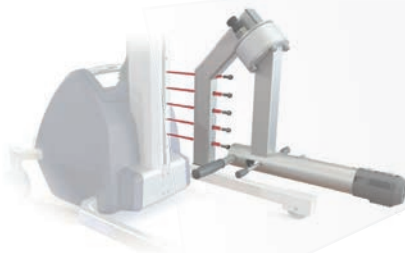


## Wide selection of tools

Easy handling of

- Reels
- Drums
- Crates
- Boxes

And much more!



*See our range of tools on the next page*



## Safe and reliable

- Equipped with **SafeDrive**; a safety mechanism ensuring that if a tool hits an object during lowering, it will stop immediately.
- The lifter is belt driven, resulting in safe, 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 40-250kg.
- On several models the measures of the wheels makes it possible to drive the lifter into a Euro-pallet in three different ways.

Any questions? Contact TAWI directly

# ergonomic lifters



## Detachable hand control

Smoothly detached hand control for optimal operation



## SmartPack - the efficient battery pack solution

- Long battery life
- Detachable battery
- Easy to switch batteries
- No cables
- Effective charger
- Battery status indicator



## Reliable braking system

Central brake with three positions: Directional lock, Neutral and Brake



### Ergonomic

- Minimizes the strain on backs, 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

- Equipped with **SmartPack**; a detachable battery pack making it easy to switch batteries. No cables.
- Effective battery charger making the full charging cycle fast.
- Charging indicator clearly showing the battery charging status.

## Protéma models and technical details



Model	PRO40	PRO80	PRO140	PRO180
Lifting capacity	40kg	80kg	140kg	180kg
Stroke mm short/medium/long	840/1040/-	850/1400/1950	840/1390/1940	840/1390/1940
Weight of unit kg short/medium/long	40/41 /-	46/50/53	69/73/78	77/ 81/86
Total height of unit mm short/medium/long	1440/1640/-	1440/1990/2540	1440/1990/2540	1440/1990/2540
Battery charging procedure	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	Swiveling	Swiveling	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



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

## EasyFlex

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

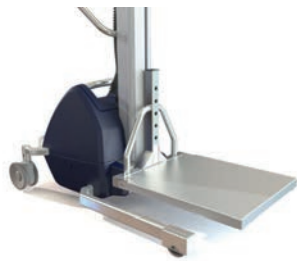
On models PRO80 and PRO140 the legs can also easily be adjusted in width, each leg is adjustable by 150mm.



## Tools and accessories



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



**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

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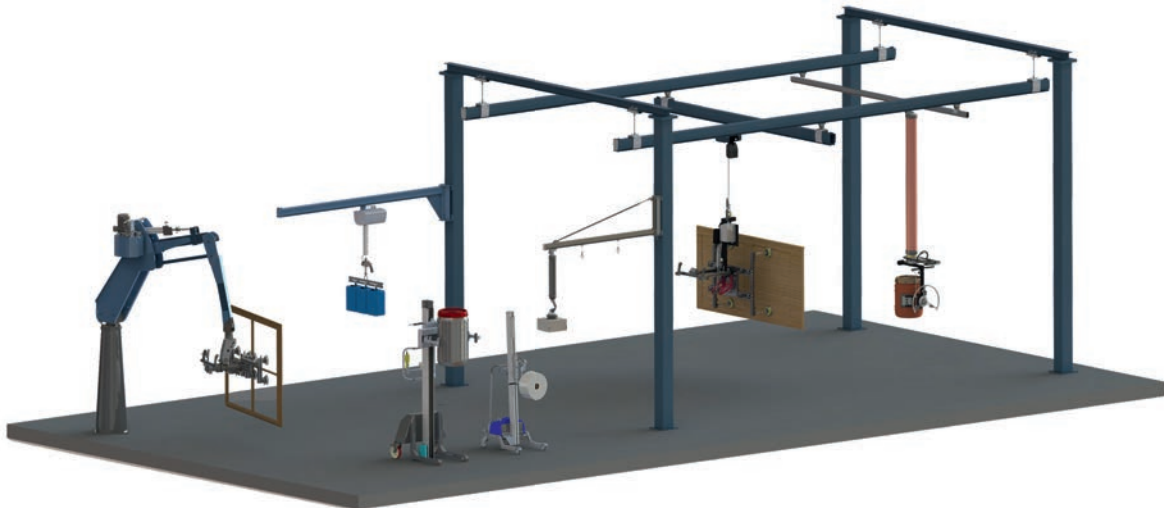
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Electric lifters

Crane systems & Jib cranes

Hoists

Vacuum lifters

Gripping tools

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