

# Lift Machine - TORNADO improves efficiency and saves space and time

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Storage machines, automates, are computer-controlled storage and transfer systems that significantly improve the efficiency of product storage and picking. They are easy to integrate with the company's WMS or can be used as standalone systems.

An automatic storage system saves up to 70% on floor space, reduces picking errors and decreases picking time by more than 60%. The most efficient way of using storage machine is to have warehouse management included with the machine. TCPlus is suitable for use with a variety of storage systems such as storage machines, small-parts shelving and pallet racking.

Lift Systems (TORNADO) is a product in the category

## Storage Machines and WMS

### Lift Systems (TORNADO)

Vertical Carousell (PATERNOSTER)  
Horizontal Carousell (HOCA)  
WMS and Control Software  
PaC-Light

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## Description

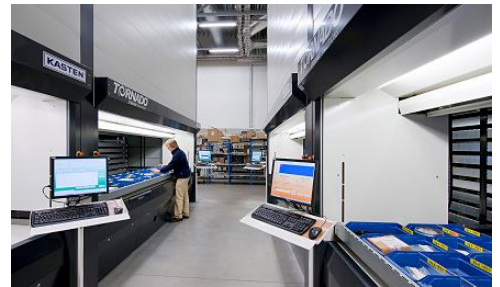
Storage Machines and WMS › Lift Systems (TORNADO)

**Constructor Tornado storage machine is rapid, energy-efficient and silent automated storage and handling system, which operates on the "goods to person" principle. It is easy to tailor to each customer's needs.**

## References

Berner Oy, Finland  
Elektroskandia, Finland  
H. Kraatz Oy, Finland  
Koiviston Auto Oy, Finland  
Ikea, UK and all over the world  
Svenska Bil i Norden AB, Sweden  
Dani-tech, Denmark  
Stema Engineering A/S, Denmark  
Servistik AB, Sweden  
Scandinavian Eyewear, Sweden  
LG Chem Polska Sp. Z o.o, Poland  
Holger Christiansen A/S, Denmark





Tornado Lift machine offers safe and secure storage for storing and handling your small items in your warehouse or shop. The intelligent engine of the system attempts to place active trays close to the retrieval point. This makes the TornadoLift machine especially useful for seasonal products. Tornado has password-protected access levels for added security.

- ✔ **75% less floor space**
- ✔ **Reduces picking errors**
- ✔ **65% shorter picking time**

The Tornado's speed both horizontally and vertically offers rapid shelving and picking. The clear and straightforward structure makes the system reliable and low-maintenance.

First, a product code is entered, either manually, with a bar-code reader, or from a higher-level system. The system then retrieves the required tray and brings it to the operator at the optimal height.

## Products

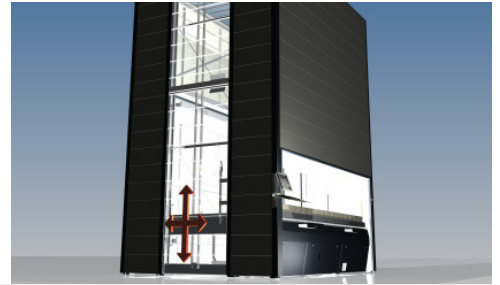
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- More goods in the same space. Up to 70% increase in horizontal capacity.
- Efficient picking. Up to 65% reduction in picking times.
- Ergonomic operation. Automatic delivery of trays to an optimal working level.
- Prevention of unauthorized use. Reduction of losses.
- Easy, paperless order processing.
- The Windows-based PC control system allows easy integration with many types of WMS.
- Minimization of picking errors.
- Possibility to transfer goods between floors like a lift.
- The latest technology on the market.



## Specifications

Storage Machines and WMS › Lift Systems (TORNADO)



Tray width (inside)	: 1250-4250 mm
Tray depth (inside)	: 520, 620, 720, 820 and 1220 mm
Tray load capacity	: max. 500 kg
Standard load height	: even 850 mm
Total load capacity	: max. 60 000 kg
Total height	: max. 15 m
Electrical connection	: 400 VAC
Motor output	: 5.5 kW

# Accessories



## Batch Picking List

TC2000 makes it possible to use batch picking with the machines. A batch picking list can be integrated beside all machines.



## Cladding Window

With cladding windows you can make your machine look more visual. Through plexi-glass windows you see the speed of the Tomado machine at work.



## Electrical Door

With an electrical door you can easily close the machine for the night and prevent unauthorized use. It can also be integrated to fire suppression systems.



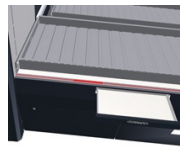
## In/Out feeder

In/out feeder automatically brings the tray out of the machine to a place where you can easily use a crane for handling of bulky heavy items.



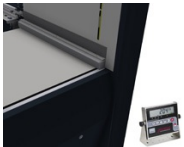
## Divider

When there is a need for separating items, Tomado trays and Patemoster carriers can be equipped with dividers instead of boxes.



## Position Indication List

The position indication list shows the operator in which direction to move from present location to the next pick, improving picking speed and reducing errors.



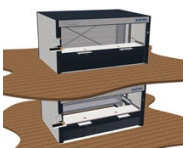
## Tray weight control

Tray weight control can be installed to Tomado opening. The scale shows the tray load on a separate display that will be installed into the picking opening.



## Wireless Bar code reader

To optimise picking efficiency, you can use wireless bar code readers with our machines.



## Several Picking Openings

It's possible to have multiple picking openings in different positions. These can be placed adjacent or opposite and at different levels as needed.



## Article Management Software TC2000

TC2000 is a complete WMS designed for automatic storage and can be integrated into all Constructor machines.