

TORNADO Vertical Storage Machine

Visit www.dexion.de/en/Product-Categories/Storage-Machines-and-WMS/Lift-Systems-TORNADO/ for the latest information.

(Dynamic) Storage (and retrieval) machines – Automated solutions for efficient warehousing.

Highly efficient picking and packing, fast provision of small parts, quick delivery of ordered goods all delivered by the most efficient the route possible, to minimise operator walking and waiting times, it's all possible with Dexion's dynamic storage and retrieval machines (systems).

Custom-designed to suit individual requirements, the ultra-fast TORNADO storage machine and the Vertical Carousel are both designed to maximise building height while standing on small footprints. Alternatively, the HOCA Horizontal Carousel is the optimal solution for buildings with restricted ceiling heights yet large floor space.

Lift Systems (TORNADO) is a product in the category

Storage Machines and WMS

Lift Systems (TORNADO)

- Vertical Carousel (PATERNOSTER)
- Horizontal Carousel (HOCA)
- PaC-Light Update package
- C-WMS Warehouse Intelligence Systems
- WMS and Control Software

Please visit www.dexion.de to see our other products.

Description

Storage Machines and WMS › Lift Systems (TORNADO)

References

- Berner Oy, Finland
- Elektroskandia, Finland
- H. Kraatz Oy, Finland
- Koiviston Auto Oy, Finland
- LG Chem Polska Sp. Z o.o, Poland
- Stema Engineering A/S, Denmark





Studies show that more than 2/3 of operators' time at work is spent either retrieving or transporting stored goods.

This means that picking operations account for up to 55% of all warehousing costs. Highly efficient warehousing therefore increasingly provides a major competitive advantage.

The benefits of our automated TORNADO storage machines allow you to:

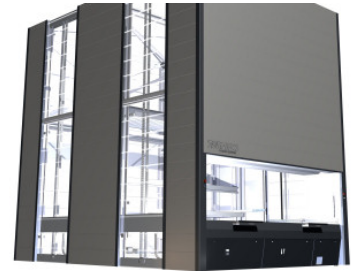
- ✓ store small parts, bulky goods and large items
- ✓ up to 70% savings in floor space whilst providing the same storage capacity
- ✓ can be used as a lift between different warehouse levels and/or floors with multiple access openings
- ✓ guarantee fast, efficient and accurate order performance
- ✓ reduce operators' manual transport routes to a minimum

- ✓ minimise search times and avoid picking errors
- ✓ shorten operator training times
- ✓ minimise order throughput times

Products

You should have it in store

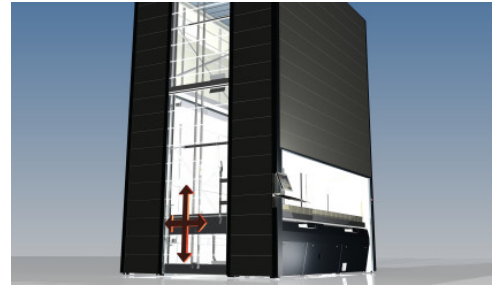
- **up to 70% savings in floor space** whilst providing the same storage capacity
- can be used as a lift between different warehouse levels and/or floors with multiple access openings
- **saves up to 65% picking time** compared to static systems
- **less search time** and **fewer picking errors** due to Pick-by-light system - optional
- **ergonomic operation** through “goods-to-person” principle“
- adapts to existing building structures
- **optimal protection** of the stored goods against dust, contamination and unauthorised access
- **safe warehousing** through continuously monitored storage shaft
- flexible and easy integration into existing IT structures with Windows-based machine controls
- supports external peripheral units such as barcode scanners, counting scales, label printers etc for a paperless operation
- **high picking accuracy** due to optimal operator guidance



Specifications

Storage Machines and WMS › Lift Systems (TORNADO)

Technical Data



Tray width (internal)	1250 – 4250 mm
Tray depth (internal):	520, 620, 720, 820 and 1220 mm (other dimensions on request)
Tray load capacity:	up to 600 kg
Load height:	850 mm maximum
Total load capacity:	60 t maximum
Total height:	4 to 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.



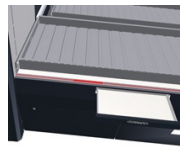
In/Out feeder

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.



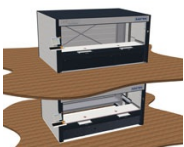
Divider

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.



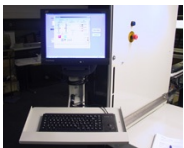
Several Picking Openings

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



Wireless Bar code reader

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



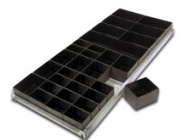
Article Management Software TC2000

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



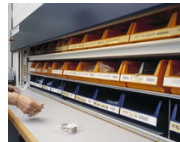
Web camera

Web camera for remote support.



Fibre Boxes

Tomado trays can be equipped with boxes in different sizes for small part handling.



Intermediate Shelf/Sublevel

All Patemoster carriers can be equipped with sub-levels.