

KASTEN Tornado-Automated Vertical Storage



KASTEN-Tornado Improves efficiency, saves space and time



Tornado used for buffer storage of finished goods. This Tornado takes up only 13 m² of floor space and offers 138 m² shelving storage capacity.

The KASTEN-Tornado is a modern, silent and rapid operating automatic storage system based on the latest development standards using servo technology. Goods are stored with minimum loss of space. The unique design of the Tornado optimises storage and picking efficiency within the smallest possible cube.

The rapid servo drives controlling the vertical and horizontal movements reduce picking and storage times while allowing the transfer of goods quickly and safely to and from their selected storage locations.

Thanks to the Tornado's unique simple design and structure its reliability is high and service requirements low. Each Tornado is constructed to the customer's specification requirements.

The KASTEN-Tornado is a compact vertical storage solution providing storage for all types of industrial and commercial needs. Typically it is used for storage of:

- Small parts
- Spare parts
- Distribution centre stock
- Production line stock
- Archives

The KASTEN-Tornado reduces floor space required for storage.



Tornado-Automated Storage

- ✓ The storage solution saving up to 70% of floor space.
- ✓ Increases picking efficiency and saves working time by up to 65%.
- ✓ Provides a safe ergonomical working environment. Trays are transported to a optimal working level.
- ✓ Gives protection and safe storage of goods by only allowing authorised user access.
- ✓ Simple orders and orderlines selection. The Tornado offers interfacing with all types of WMS-software as part of the network.

Gives maximum security and an optimised ergonomic solution for the operator and the storage of goods.



Advanced technology as standard:

- Robust and powerful lifting motor (5,5 kW)
- Standard long life components for low maintenance operations
- Easy to use pc-control
- Tray sizes up to 4 m
- Rapid and accurate servo-drives
- Unique lightweight lifting table

Technical data:

Tray length	1250 - 4000 mm
Tray depth	520, 620, 720 and 820 mm
Load capacity/Tray	max. 500 kg
Payload	max. 40.000 kg
Vertical speed	max. 2,2 m/s
Horizontal speed	max. 1,2 m/s
Tray exchange time/ Continuous cycle	20 s (app. 6 m high machine)

Practical and easy to use control system.



The KASTEN-Tornado is at its best when fully integrated with the customers warehouse system. Picking lists, working/service orders are directly downloaded from the host. Picking errors and picking times are reduced to a minimum.

As an option, control the Tornado with our own TC 2000 storage administration software.

A Standard MS Windows based control system is:

- Easy to use
- User friendly
- Flexible
- Easy to expand for future needs



The Tornado adapts from simple space saving storage applications to fully integrated turn key solutions.



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