Advantages of the new Skypod® system

Buffering

The new Skypod[®] system enables the buffering and consolidation of completed and partially completed orders in the racking system. This makes it possible to store pre-commissioned orders temporarily.

Increased storage capacity

Robots can move under the racks, maximising space utilisation and storage density.

Integrated sequencing

The warehouse robots can ensure a sequence for the picking order at the picking stations. These are then buffered or transported towards the Exchanger in the exact order required.

Pick & Pack picking station

The Pick & Pack process enables picking into a shipping container placed on the Skypod[®]. This is then transported away in the correct order for despatch.



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Skypod® – Autonomous Robots Innovation in the small parts warehouse





we make logistics simple



Two functions in one

Transport on the ground & storage and retrieval in the rack

The autonomous warehouse robots from Exotec® integrate two functions. The robots take over both the storage and retrieval directly in the racks and the delivery of the containers to the picking workstations. The robots navigate through the system by travelling under racks and climbing up the shelves. The Exotec® system therefore offers a real alternative to conventional shuttle and cube systems, as for example the statically installed conveyor pre-zone with performance-limiting shuttle lifts is no longer required. Typical fields of application for the Exotec® system are multi-channel retailers and e-commerce warehouses that require flexibly scalable systems due to a highly fluctuating order situation. The Skypod® routes are coordinated centrally by artificial intelligence, with the warehouse robots also recognising each other. The Exotec® storage system covers the low, medium and high performance range. The Skypod® storage robots, which are powered by lithium batteries, are very fast and can reach speeds of up to 4 metres per second. Additional Skypod® robots can be added within minutes without system interruption and provide ideal support during seasonal peaks.

Adaptable and quickly changeable

Higher system performance

• Use of additional robots

Higher storage capacity

· Extension of the racking system without downtimes

Higher picking performance

Setup of additional workstations

System integration

- Klinkhammer is the system integrator for Exotec[®] in the German-speaking regions and Scandinavia
- System integration with digital networking of various warehouse systems from goods receipt to dispatch
- Competent Klinkhammer-service one face to the customer
- The holistic solution for your logistics processes

Skypod[®] system

Scalable storage system

Data and Facts

Load capacity	30 kg
Speed	4 m/s
Obstacle detection	Laser scanner
Energy	Lithium battery
Charging	Booster charging station,
	availability 7/24
Charging cycle	5 min/h per robot
Container and trays	650 x 450 mm
Container heights	220 mm, 320 mm, 420 mm,
	up to 8 compartments/container
Operating temperature	0°C bis 40°C

System advantages

- No static, maintenance-intensive conveyor pre-zone
- No performance-limiting shuttle lifts
- Roboter maintenance during ongoing operation
- Can be expanded at any time





Order picking stations Source and target containers in 100% sequencing



Exchanger for storage and retrieval Fully automatic traying and de-traying