



**Intralogistics
Automation**



RoverLog[®]
Automatic warehouse

RoverLog®

The idea

The idea of the RoverLog warehouse system is to automate the storing of large-volume goods in a compact space and return to a specific location on request (goods-to-man principle).

The goods are transported from the picking ports via a conveyor into the RoverLogs, and positioned there in the bin. The RoverLogs move below the goods in the support structure in X and Y to the desired destination cell. At the destination, the bin is lifted in and connected to the support structure.

Our patented bins can, thanks to their quick lock system, build self-supporting stacks and thus enable a compact block storage. No extra shelf structure is required to stabilize the bin stacks. The goods can be delivered to any picking location. No additional sorter technology is required to distribute the goods.



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Support structure

- ▶ Modular structure, which can be customized to any building situation.
- ▶ The bins are connected by the patented quick locking system, to build a stable column. No extra shelf structure required.
- ▶ Usable bin inner space of (LxWxH) 1500mm x 740mm x 480mm to 720mm. Stackable up to 9.2m from the floor.
- ▶ Up to 105kg payload per bin possible.
- ▶ The cell grid of the structure is (XxY) 1630mm x 940mm.



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Storage and retrieval unit

- ▶ Travel speed in X and Y directions up to 2,4m/s.
- ▶ Loads up to 840kg (740kg with conveyor) per stack.
- ▶ Power supply through the support structure. No charging times necessary for the batteries.
- ▶ Conveyor with speed up to 0.3m/s.
- ▶ The RoverLog distributes the goods evenly in the bin.
- ▶ Unlocks the bins in the stack as well as the bins in the support structure.
- ▶ Designed according to DIN EN 528.



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Comissioning port

- ▶ 2 Versions: with (a) doors or (b) high-speed door.
- ▶ Ergonomic loading and unloading of goods in load carrier inlays made of wood or cardboard.
- ▶ Stretch straps to protect goods from falling out.
- ▶ Power connection available on the port to connect your computer.
- ▶ Brake mechanics to secure and stop the RoverLogs safely and securely in entry and exit.
- ▶ Protection against unauthorized entry into the storage system.



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Comissioning port tires

- ▶ Automatic contour control of goods.
- ▶ Conveying at a safe speed of 0.25m/s.
- ▶ Goods are inserted at an ergonomic height of 800mm.
- ▶ Buffer space to continue picking work in case of busy warehouse.
- ▶ Electricity socket at the electrical cabinet, to power your devices.
- ▶ Protection against breaching safety zones.



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Warehouse system

- ▶ Extendable to changing needs.
- ▶ The position of RoverLogs and bins are tracked absolute and can be easily restored even after a power failure.
- ▶ The performance of the system depends on the size of the warehouse, the number of robots and the number of picking ports.
- ▶ The maintenance area allows quick and easy on-site maintenance.
- ▶ Recuperation during bin removal.
- ▶ The storage system complies with BGR 234.
- ▶ Safety concept checked by



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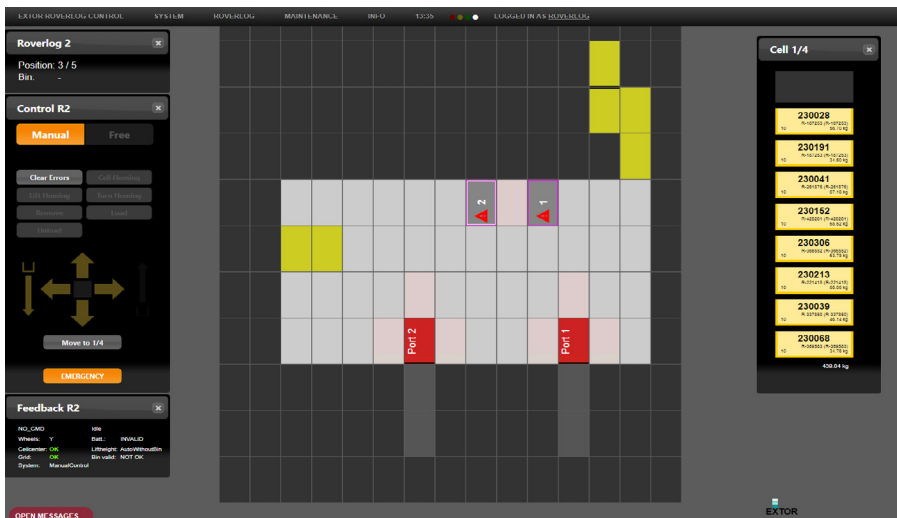
Software

- ▶ The RoverLog system is controlled by the customer warehouse management software.
- ▶ Optimized route planning for RoverLogs.
- ▶ RoverLogs work cooperatively to process orders.
- ▶ Order preparation without staff.
- ▶ Automatic weight control for every grid cell.

The RoverLog system can be controlled using the operating system-independent graphical user interface (GUI).

The following actions are possible:

- ▶ Manual control of a RoverLog
- ▶ Security controls
- ▶ Maintenance work
- ▶ System start and correction of errors



Make an appointment with us for your individually planned warehouse.



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