Automated solutions

Shuttle System

Greater storage capacity and speed in order picking





Shuttle System

This automated storage and retrieval system (AS/RS) increases storage density and speed in order picking, boosting productivity.

On each storage level, a motorised shuttle deposits and removes totes or boxes by means of telescopic arms. Lifts move the goods to the lower level. Once there, conveyors move the totes to the pick stations, where operators put together orders. Mecalux's Easy WMS warehouse management system orchestrates the operations, optimising the movements of the totes. The software controls the location of the goods at all times.

Benefits:



Raised productivity

Automation and the goods-to-person method improve throughput in storage and order picking tasks.



Optimisation of available surface area

The racking can reach up to 14.5 m tall and 70 m long, providing considerable storage capacity.



Streamlined goods-in/goods-out

The electric shuttles foster a higher number of movements per hour.



Perpetual (real-time) inventory

The Easy WMS warehouse management system $controls\,stock\,and$ product traceability.





Improved order picking accuracy

Errors resulting from manual management are eliminated.



Continuous flow

The Shuttle System can operate non-stop — 24 hours a day.



Modular, scalable solution

Aisles can be added on to the system based on logistics needs.



Easy maintenance

The AS/RS features an area for performing preventive maintenance.

Shuttle System features

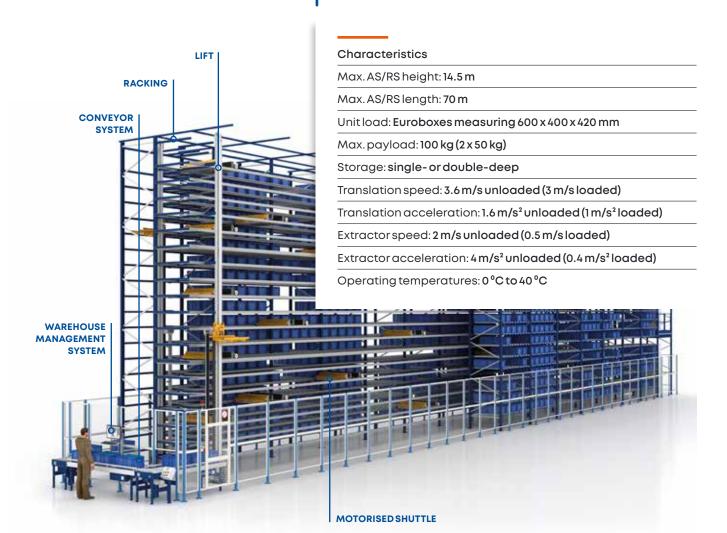
The motor-driven shuttle travels along the rai moving the goods to the lifts at a speed of 4 m,

Thanks to its sensors, the electric shuttle detects its position and moves to the assigned location with full autonomy.

The system incorporates **safety elements** that protect both the operators working in the facility and the goods stored. The operation of the shuttle is **controlled by an** onboard PLC, which receives instructions to execute the translation and extraction movements.

The shuttle's telescopic arms perform storage and retrieval operations in singleor double-deep racking.

On each level, the motorised shuttle can move up to 2 totes, each weighing 50 kg maximum.



Operation











The shuttle receives an order and travels to the assigned position to retrieve a tote from the racking using its telescopic arms.

2

Once the tote is in the cradle, the shuttle moves to the lift in charge of lowering the goods to the bottom level, where the outbound conveyors are located.

3

The conveyor system transfers the tote to the pick station. There, the operator receives instructions from the WMS software on filling the order.

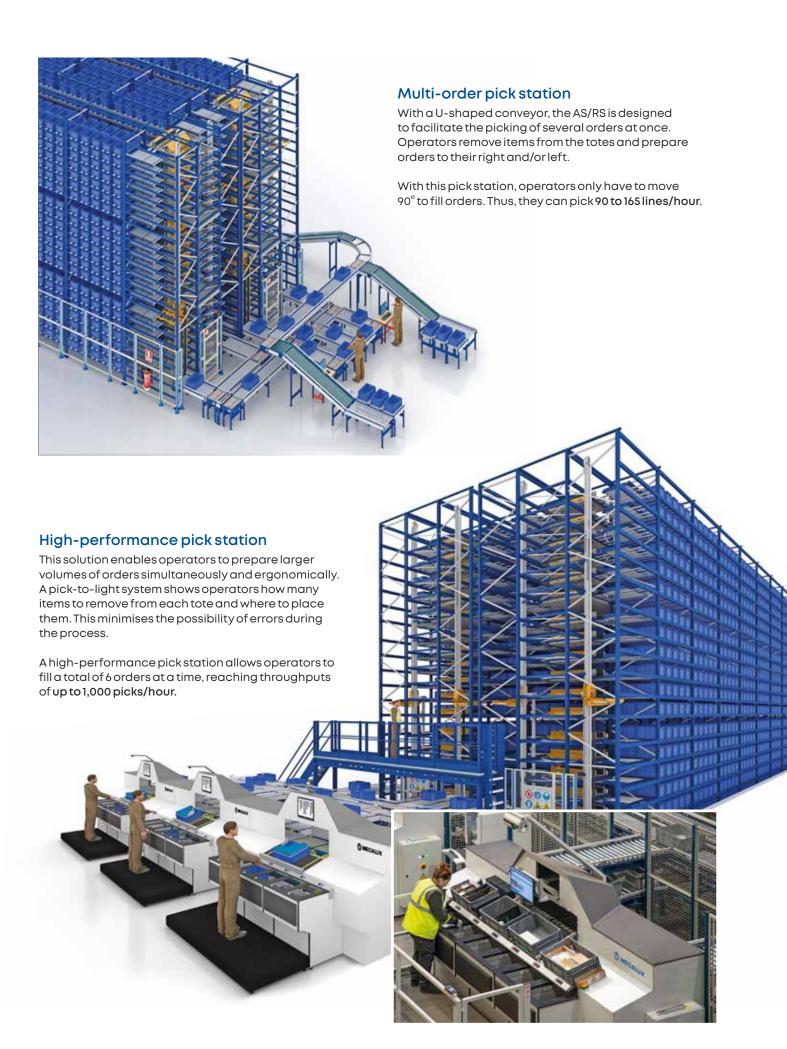


Once picking has finished, the tote returns to the AS/RS or is sent to another workstation. The completed order is moved to the consolidation area or directly to the shipping zone.

Large-scale order picking

The Shuttle System supports different pick station configurations.







The Shuttle System is suitable for companies in any industry. It is especially advantageous for those that store many small products in a limited space and that need to boost order picking productivity in their logistics facilities.

This system facilitates the consolidation and sequencing of prepared orders and the supply of materials to production lines.



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