ADDVERB

VELOCE

MULTI-CARTON PICKING ROBOT

Veloce is our multi-carton picking robot that is used for storage and retrieval of totes, bins or cartons from racks and conveyors. It can handle inventory, returns, order consolidation, sorting operations and a variety of other tasks. Veloce can be integrated seamlessly with existing systems like pick-to-light systems, conveyors, AMRs, etc. for the desired flow of material.

Technical Specifications

General Specifications

Navigation Mode	QR Code Based
Max. Payload Capacity	240 Kg
Robot Dimensions	1700 mm x 998 mm x 4000 mm
Weight	550 Kg
Max. Number of Levels	8
Payload Per Level	30 Kg
Max. Payload Dimensions	600 mm x 400 mm x (200 ~ 400) mm
Min. Aisle Width	1170 mm
Min. and Max. Picking/ Placing Height	480 mm ~ 3600 mm
Ground Clearance	25 mm



Technical Specifications

General Specifications

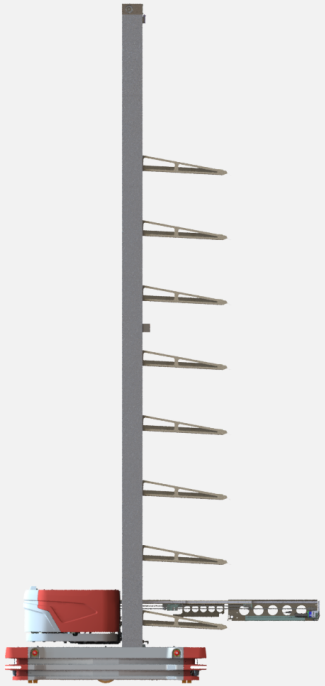
IP Class	IP20
Operating Temperature	+5 to +45 deg. C

Speed and Performance

Max. Operating Speed	1.5 m/s
Positioning Accuracy	
Base	± 10 mm
Carraige	± 3 mm
Turning Diameter	1789 mm

Communications & Integration

Fleet Management Software	Available
Integration with ERP	Available
Integration with 3rd Party Systems	Available
Communication Mode	Wi-Fi (802.11 a/b/g/n/ac, 2.4GHz, 5 GHz)



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Technical Specifications

Safety

Obstacle Detection Sensor	2 x 2D LiDARs (1 x Front , 1 x Back)
Certification	CE

Battery

Avg. Battery Runtime	3 Hours
Battery Specifications	LTO, 48 V, 22Ah
Charging Time	8 Minutes (20% to 80%)

Features

Fork Configuration	Double – Deep Fork Configuration
Vision System	Real- time Tote Detection and Monitoring
Charging Dock	Automatic Charging Station



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Key Benefits:

- Fast single/double deep storage and retrieval of versatile loads
- Reliable and 100% safe, operates in a dedicated area
- Ideal for flexible storage and retrieval of bins and crates
- Ease of installation and scalability for enhanced flexibility
- Easy to operate, with user friendly interfaces and advanced analytics dashboard
- Modular design can be customised as per roof clearance and non-standard sized totes

FEATURES

Marker Based Navigation

Veloce follows a marker-based path system to reach a specific location with high accuracy

Zone-Based Safety

Equipped with field sensors that have configurable safety fields according to different zones for obstacle detection

Fleet Management System

AI-powered - Fleet Management System to control robot fleet for optimised task allocation and traffic management

Fast Pick & Place Operation

Customisable for single and double deep racking. Picking height in the aisle can vary from 0.48 m to upto 3.6 m

Audio and Visual Alerts

Warning lights & audible warning signals while approaching a turn or an obstacle; alarm signal & alarm sound in case of an encounter

Multi-Level Safety

Presence of multiple provisions for safety including emergency stops and LiDARs

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