

Veloce is our multi-carton picking robot that is used for storage and retrieval of bins from racks. 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, allowing you to experience flexible automation in your warehouse with its ecosystem.

## Technical Specifications

### General Specifications

Weight	550 kg
Dimensions	1509 x 930 x 5000 mm
Max payload per level	30 kg
Payload Dimension	600 x 400 x 200/400 mm
Max rated payload	240 kg
Aisle Width	1100 mm
Max picking height	4400 mm
Ground Clearance	30 mm



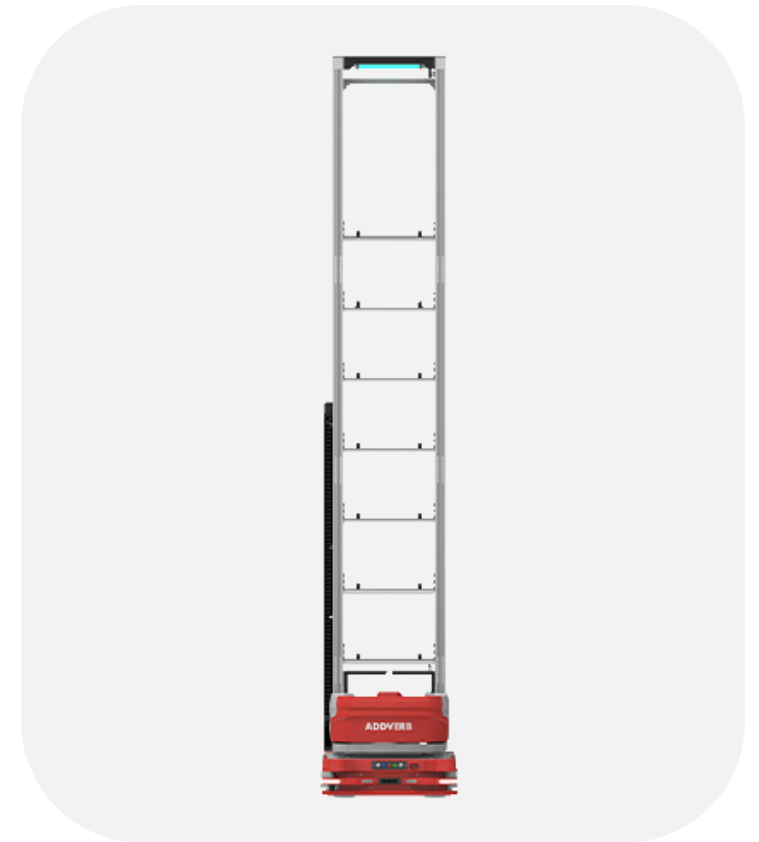
## Technical Specifications

### Speed and Performance

Max operating speed	1.5 m/s
Acceleration	0.5 m/s <sup>2</sup>
Positioning accuracy	± 20 mm
Telescopic fork speed	1.0 m/s
No. of levels	1 to 11

### Communications & Integration

Wi-Fi	(802.11 a/b/g/n/ac, 2.4GHz, 5 GHz)
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### Battery

Type	LTO, 48V, 22Ah
Charging time (20-90%)	15 min
Running time (90-20%)	3 hours
Fully Automatic Charging Solution	

### Safety

Emergency Stops	Yes, 4
LiDARs	Yes, 2
Safety PLC	
CE Certified	



### 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

### 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 0.49 m up to 5 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

