MR-F0-50DCH-A(HI)

Carton Transfer Unit



Key Feature

- Supports smooth motion control with max. running speed of 1.8 m/s, and supports moving forward, backward and in-place rotation.
- Supports two-way operation in narrow passage and lifting height to improve space usage and warehouse storage capacity.
- Adopts workbin storage space and capable of carrying or moving several workbins for improving efficiency.
- Supports customized workbin of different sizes and materials.
- Adopts multiple safety protections like front/rear laser obstacle avoidance, bumper strip, emergency stop button, audible alarm, etc.
- Adopts touch screen to display device status and task information in real time.
- Supports controlling executing structure manually.
- Adopts smart power management without lithium battery maintenance, and supports auto charge in low power level to provide 24/7 uninterrupted service.

Typical Application

Automobile, consumer electronic, manufacturing, logistics, food, medicine, etc.

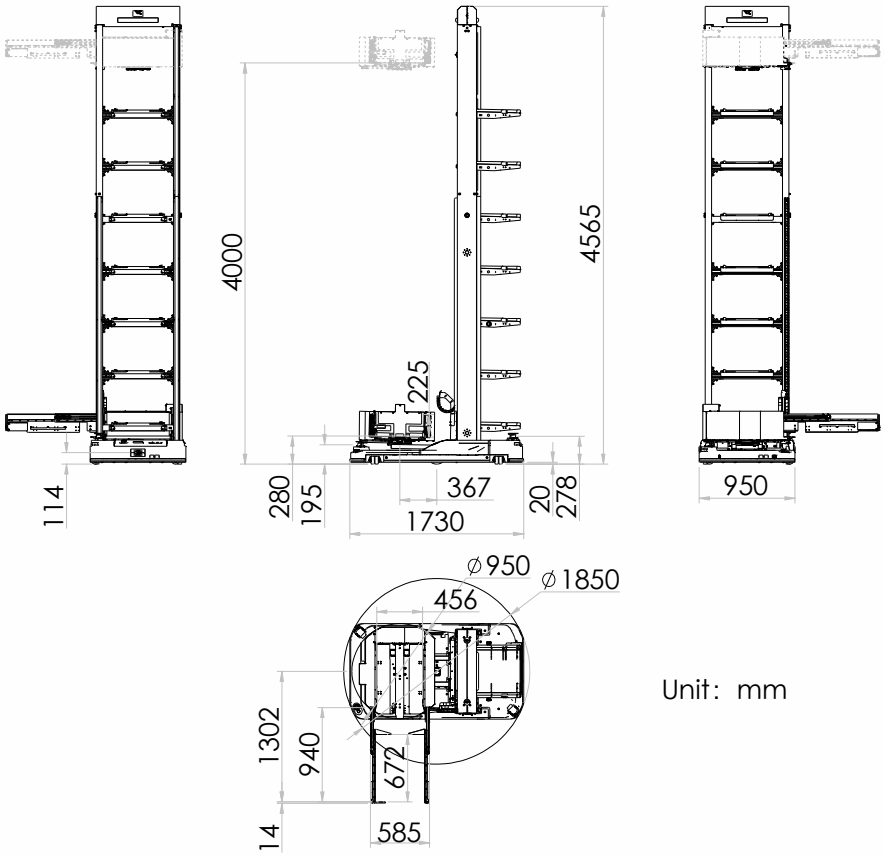
Available Model

MR-F0-50DCH-A(HI)

Accessory

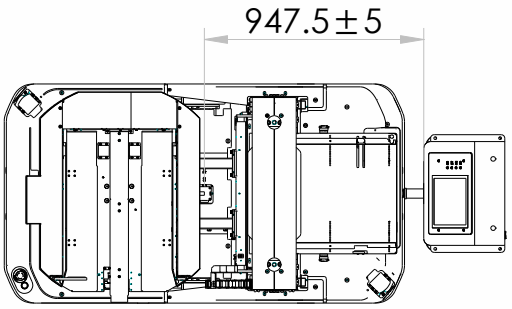
Charging station: MR-RA-CH-48/30B-CI(CE)

Dimension



Unit: mm

Charging Station Deployment



Unit: mm

Specification

Model			MR-F0-50DCH-A(HI)
Basic Parameter			
Dimension			1730 mm × 950 mm × 4540 mm (68.11" × 37.40" × 178.74")
Rotation Diameter			1850 mm (72.83")
Lifting Height			300 mm to 4000 mm (10.63" to 157.48")
Min. Ground Clearance			20 mm (0.79")
Weight			650 kg (1433.00 lb.)
Overall Rated Load			250 kg (551.16 lb.)
Executing Structure Rated Load			50 kg (110.23 lb.)
Navigation Mode			2D barcode (laser and visual SLAM is optional)
Touch Screen			Supports
Execution Structure			
Applicable Workbin Dimension			600 mm × (350 mm to 400 mm) × (100 mm to 350 mm) 23.62" × (13.78" to 15.75") × (3.94" to 13.78")
Goods Taking Method			Clamp and single deep
Lifting Speed			500 mm/s
Lifting/Lowering Stopping Accuracy			± 2 mm (0.08")
Max. Telescopic Speed			1000 mm/s
Telescopic Stopping Accuracy			± 3 mm (0.12")
Min. Passage Width			1100 mm (43.31")
Safety Protection			
Front	**Laser Obstacle Avoidance**	**Installation Height**	178 mm (7.01")
		Scanning Angle	250°
		Max. Detection Range	8 m (314.96")
Rear	**Laser Obstacle Avoidance**	**Installation Height**	246 mm, upturned 2°
		Scanning Angle	240°
		Max. Detection Range	8 m (314.96")
Bumper Strip Detection			Supports
Workbin Detection			Supports
Execution Structure Obstacle Detection			Supports
Emergency Stop Button			Supports
Audible Alarm			Supports
Motion Performance			
Running Speed			0 m/s to 1.8 m/s
Positioning Accuracy			± 10 mm (0.39")
Angle Accuracy			± 1°
Repeated Positioning Accuracy			± 10 mm (0.39")
Driving Direction			Bi-directional driving
Rotation Capability			360° in-place rotation
Battery Performance			
Battery Type			LiFePO
Rated Voltage			48 V
Capacity			44 Ah
Charge Cycle			1500 times (for fully charging and discharging)
Run Time			6 h to 8 h
Charge Time			≤ 1.5 h (for fully charging and discharging)
Others			
Drive Method			Differential driving
Manual Operation			Standard

HIKROBOT

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