

# CMC05

## Lift-Top AMR



Empowering the World with Billions of Robots

[www.mw-r.com](http://www.mw-r.com)



## Introduction

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CMC05 is a compact lifting AMR engineered for material handling in narrow aisles and space-constrained environments. With a body width of just 600 mm, it autonomously transports and picks up or drops off small racks, carts, and other material carriers. Powered by 3D SLAM navigation, CMC05 enables flexible and efficient material movement in confined spaces.

## Features

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### 600 mm Compact Footprint

With a body width of just 600 mm, CMC05 is designed to navigate narrow aisles and space-constrained work areas with ease.



### Rack & Cart Compatibility

Compatible with small racks, carts, and other material carriers for versatile handling applications.



### Flexible Navigation

Designed for narrow-aisle operation, enabling flexible and efficient material transport in confined spaces.



### 500 kg Payload

With a rated payload of 500 kg, CMC05 is capable of handling small racks, carts, and other material carriers.

# CMC05

Lift-Top AMR

## Specifications

| CMC05                  |                                     |                                                                  |
|------------------------|-------------------------------------|------------------------------------------------------------------|
| Navigation             | Navigation Method                   | QR Code Navigation /<br>Laser Navigation(2D/3D SLAM)             |
| Communication          | Wireless WiFi                       | ●                                                                |
|                        | Optical Communication               | ○                                                                |
|                        | 5G                                  | ○                                                                |
| Basic Specifications   | Rated Load (kg)                     | 500                                                              |
|                        | Dimensions LxWxH(mm)                | 1092x600x777                                                     |
|                        | Weight (kg)                         | 190                                                              |
| Movement Features      | Driving Features                    | Forward, Reverse, Turning, 360° Rotation                         |
|                        | Driving Speed(m/s)                  | 1.5/1.3                                                          |
|                        | Positioning Precision(mm)           | ±10                                                              |
|                        | Lifting Speed (No Load / Full Load) | 10(mm/s)                                                         |
|                        | Cross-Groove Capability (mm)        | ≤30                                                              |
|                        | Climbing Capacity(mm)               | ≤5°                                                              |
|                        | Obstacle Clearing Capability(mm)    | ≤10                                                              |
|                        | Lifting Stroke (mm)                 | 58                                                               |
| Safety Protection      | Path Deviation Protection           | ●                                                                |
|                        | Positioning Fault Protection        | ●                                                                |
|                        | Obstacle Detection LiDAR            | ●                                                                |
|                        | 3D Obstacle Detection & Avoidance   | ●                                                                |
|                        | Dynamic Obstacle Detouring          | ○                                                                |
|                        | Anti-Collision Strip                | ●                                                                |
|                        | Emergency Stop Button               | ●                                                                |
|                        | Sound & Light (Warning)             | ●                                                                |
| Battery Specifications | HMI                                 | ●                                                                |
|                        | Charging Mode                       | Auto/Manual                                                      |
|                        | Battery Type (Standard)             | Lithium Iron Phosphate                                           |
|                        | Rated Voltage (V)                   | 48                                                               |
|                        | Standard Capacity (Ah)              | 40                                                               |
|                        | Discharge Rate/Runtime(h)           | 6~8h                                                             |
| Detection              | Battery Life                        | ≥70% Capacity Retention After 2,000 Full Charge-Discharge Cycles |
|                        | Deviation Detection & Correction    | ○                                                                |
|                        | Barcode Recognition                 | ○                                                                |

● Standard ○ Optional

The dimensions can be customized to satisfy project requirement

# Multiway Robotics

Multiway Robotics is committed to "Empowering the World with Billions of Robots" and takes "To create a new and efficient operating mode" as its mission, continuously driving the advancement of global productivity.

**Global Presence:** The headquarters is located in Shenzhen, China, with production facilities in Zhejiang Wuzhen. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 40+ countries and regions worldwide.

**Our Expertise:** Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge Smart Intralogistics Solution to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed unmanned forklifts and upper-level control systems. Hardware products include a full range of unmanned forklifts and four-way shuttle, while software systems encompass WMS, RCS, WCS, on-site management systems, and various visual solutions.

**Software:** WMS, RCS, WCS, Multiway Horizons, Simulation

**Hardware:** AGV forklifts, AGV Tugger, AMR & Four-way Shuttle

After successfully delivering numerous benchmark projects in industries such as factories, warehousing, and logistics, Multiway has become a trusted and ongoing collaborative partner for many industry-leading customers.



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