

AMR Autonomous Mobile Robot with $\pm 1^\circ$ Angular Accuracy Featuring Lidar Obstacle Avoidance and Robot Arm Payload

Our Product Introduction

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Basic Information

- Brand Name: TIANYUE
- Certification: 3c.ce
- Minimum Order Quantity: 1 Sets
- Price: Negotiable
- Packaging Details: Regular Packaging
- Delivery Time: 30-40work Days
- Payment Terms: L/C,T/T
- Supply Ability: 100 Pieces/month



Product Specification

- Payloadtype: Robot Arm
- Angular Accuracy: $\pm 1^\circ$
- Load Mode: Robot Arm
- Battery Type: Lithium Iron Phosphate
- Chargingmethod: Automatic Docking Station
- Applicationareas: Robot Arm Composite
- Walking Precision: $\pm 10\text{mm}$
- Navigation Method: Lidar Obstacle Avoidance
- Highlight: **$\pm 1^\circ$ Angular Accuracy AMR Robot, Lidar Obstacle Avoidance Autonomous Mobile Robot**
Robot Arm Payload AMR Autonomous Mobile Robot



More Images

Angular Accuracy ± 1 Degree
 Autonomous Mobile Robots Featuring Lidar Obstacle Avoidance
 Navigation Method Supporting Material Flow



Product Description

AMR Autonomous Mobile Robot with $\pm 1^\circ$ Angular Accuracy



The AMR Autonomous Mobile Robot represents a significant advancement in automated material handling and robotic integration. Designed for modern industrial demands, this cutting-edge solution combines autonomous navigation, communication, and payload management technologies to deliver superior performance and flexibility.

With a maximum speed of 1.35 meters per second, the robot ensures rapid transportation across manufacturing floors, warehouses, and distribution centers while maintaining safety and accuracy. This capability enhances workflow efficiency and reduces cycle times in high-demand production and logistics operations.

Advanced Communication Capabilities

Equipped with Wi-Fi, Ethernet, and 4G LTE connectivity, the robot seamlessly integrates into existing network infrastructures. This enables real-time data exchange, remote monitoring, and dynamic route adjustments for optimal performance in complex environments.

The robot's payload capabilities are specifically designed for robotic arm applications, enabling composite tasks such as picking, assembling, welding, or inspection while navigating autonomously. This integration enhances production flexibility and reduces manual intervention requirements.

Key Features

- Product Name: AMR Autonomous Mobile Robot
- Walking Precision: $\pm 10\text{mm}$ for high accuracy navigation
- Navigation Method: Lidar Obstacle Avoidance for safe pathfinding
- Charging Method: Automatic Docking Station for continuous operation
- Battery Type: Lithium Iron Phosphate for reliable power
- Angular Accuracy: $\pm 1^\circ$ for precise maneuvering
- Advanced Industrial Robot System integration

Technical Specifications

Mechanical Arm Mounting	Customizable
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Maximum Speed	1.35 M/s
Load Mode	Robot Arm
Application Areas	Robot Arm Composite
Walking Precision	±10mm
Charging Method	Automatic Docking Station
Battery Type	Lithium Iron Phosphate
Communication Interface	Wi-Fi, Ethernet, 4G LTE
Motor Type	Servo Motor
Payload Type	Robot Arm

Industrial Applications

The TIANYUE AMR Autonomous Mobile Robot, certified with 3C and CE standards, revolutionizes material handling across multiple industries. With a supply capacity of 100 units monthly and minimum order quantity of 1 set, it offers scalable automation solutions. Primary applications include manufacturing plants requiring precise component transportation, logistics and warehousing operations for automated goods movement, and distribution centers needing continuous reliable operation.



HIGH QUALITY



EASY OPERATION



AFTER-SALES SERVICE

With 30-40 workday delivery and flexible payment terms including L/C and T/T, this AMR solution provides efficient integration into existing automation systems, driving productivity and accuracy across modern industrial operations.



Guangzhou Tianyue Automation Technology Co., Ltd.



13570415240



mkliangjintian@gmail.com



roboticsagv.com

Shop 23,24-101 ,32 Lihong Bei Lu,Jiutan Cun,Huadu District,Guangzhou City,China