



#### **APPLICATION SCENARIOS:**

Applicable in industries such as 3C electronics, food, pharmaceuticals, new energy, tobacco, express delivery, and e-commerce. Compatible with national standard pallets, non-standard pallets, and non-standard material frames. Suitable for logistics distribution, ground conveyor integration, pallet-to-person, and automated de-palletizing and palletizing integration. Capable of direct interaction with equipment such as ground conveyors, elevators, freight elevators, and air shower doors, achieving automated and efficient handling.









#### **FUNCTIONAL CHARACTERISTICS**

- Autonomous positioning and navigation: AGVs use technologies such as QR code navigation, laser SLAM navigation, and texture navigation for precise positioning.
- ♦ Heavy Load Handling: AGVs support the handling, transporting, rotating, and placing of loads up to 1000 Kg.
- Flexible Motion Control: Equipped with differential drive with dual wheels, AGVs support movements such as forward, backward, and rotation, ensuring smooth and gentle motion.
- Multiple safety protections: It supports front and rear laser detection, front and rear binocular detection, 360° anti-collision edge, front/rear emergency stop buttons and other multi-level safety protections to achieve safe and reliable motion control.
- Intelligent power management: Supports multi-level power threshold control, autonomous charging when the battery is low, and autonomous return to work after completion of charging.
- Equipment Status Indication: AGVs provide multiple light effects to indicate various vehicle statuses.
- Wireless Network Communication: AGVs support WiFi network communication and seamless roaming, enabling unobstructed operation within network coverage areas.
- User-Friendly Human-Machine Interaction: AGVs feature audio-visual alerts to notify nearby operators.



# **TECHNICAL PARAMETERS**

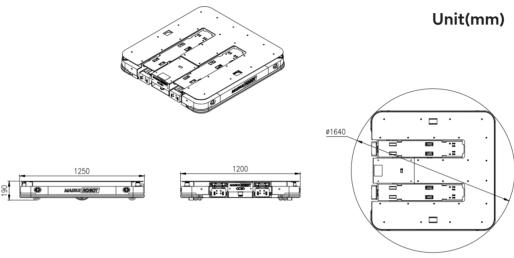
	INDEX	PARAMETER
	Rated Load (kg)	1000
	Dimensions (mm)	1250 (L) ×1200 (W) ×190 (H)
	Self Weight (kg)	300
	Navigation Method	QR Code/VSLAM/LSLAM
	Turning Diameter (mm)	1640
	Maximum Fork Lift Height (mm)	330
	Fork Height from Ground After Lowering (mm)	90
	Single Fork Width (mm)	164
	Fork Outer Width (mm)	600
General	Fork Inner Width (mm)	272
<b>3</b> 6113141	Fork Extension from Body Max (mm)	≤1400
	Minimum Ground Clearance (mm)	25
	Suitable Pallet Fork Hole Height (mm)	100-130
	Suitable Pallet Fork Hole Outer Width (mm)	≥700
	Suitable Pallet Fork Hole Inner Width (mm)	≤180
	Suitable Pallet Size (L*W) (mm)	(1000~1300)*(1000~1300)
	Obstacle Detection Laser Scanning Surface Height (mm)	145
	Pallet Detection Laser Scanning Surface Height (mm)	50
	Display Screen	5 inches
	Obstacle Detection Laser	One on each front and rear diagonal
	Collision Bar Detection	Available
Safety	Pallet Presence Detection	Available
Protection	Fork Tip Collision Detection	Available
	Emergency Stop Button	Two on each side
	Sound and Light Alarm	Available
	Movement Method	Dual-wheel differential drive, supports forward/reverse, arc turns, and on-the-spot rotation
	Movement Speed (Unloaded/Loaded) (m/s)	1.8/1.5
B.4	Positioning Accuracy (mm)	±10
Motion Performance	Angle Accuracy	±Ί
Performance	Maximum Climbing Ability (Unloaded/Loaded) (°)	4
	Single Pick and Place Time (s)	28
	Fork Lift/Lower Time (Unloaded/Loaded) (s)	≤8.5
	Fork Extend/Retract Time (Unloaded/Loaded) (s)	≤4.5
Battery Performance	Rated Voltage (V)	48
	Capacity (AH)	28



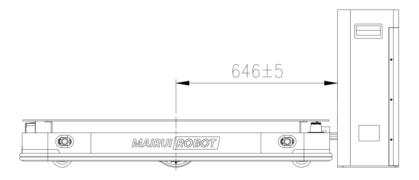


Battery Performance	Battery Charging Cycles	Fully charging & discharging 1500 times
	Endurance(H)	≥8
	Charging Time (H)	≤1.5
	Battery Type	Lithium Iron Phosphate

### **PRODUCT SIZE**



# **CHARGING DISTANCE GUIDE**



# **MODEL**

Model	Material code
LF5-1000C10B-MR	1.0.13.01.0001

### **OPTIONAL ACCESSORIES**

Accessories	Model	Material code
Charging station	MRC_V3.0_15A	1.0.04.05.0007
External debugging cable	Network Cable, RJ45 to RJ45	/