

# AMR- L5



## APPLICATION SCENARIOS:

From 3C to automotive, our AGV | AMR solutions adapt seamlessly to diverse industries like express delivery, e-commerce, and medicine. With precise integration, we optimize shelf handling, parts dispatching, and material transfer, tailored to your unique needs.



Manufacturing Automation



New Energy Vehicle Production



Automobile Production



Logistics & Distribution Centers

## FUNCTIONAL CHARACTERISTICS

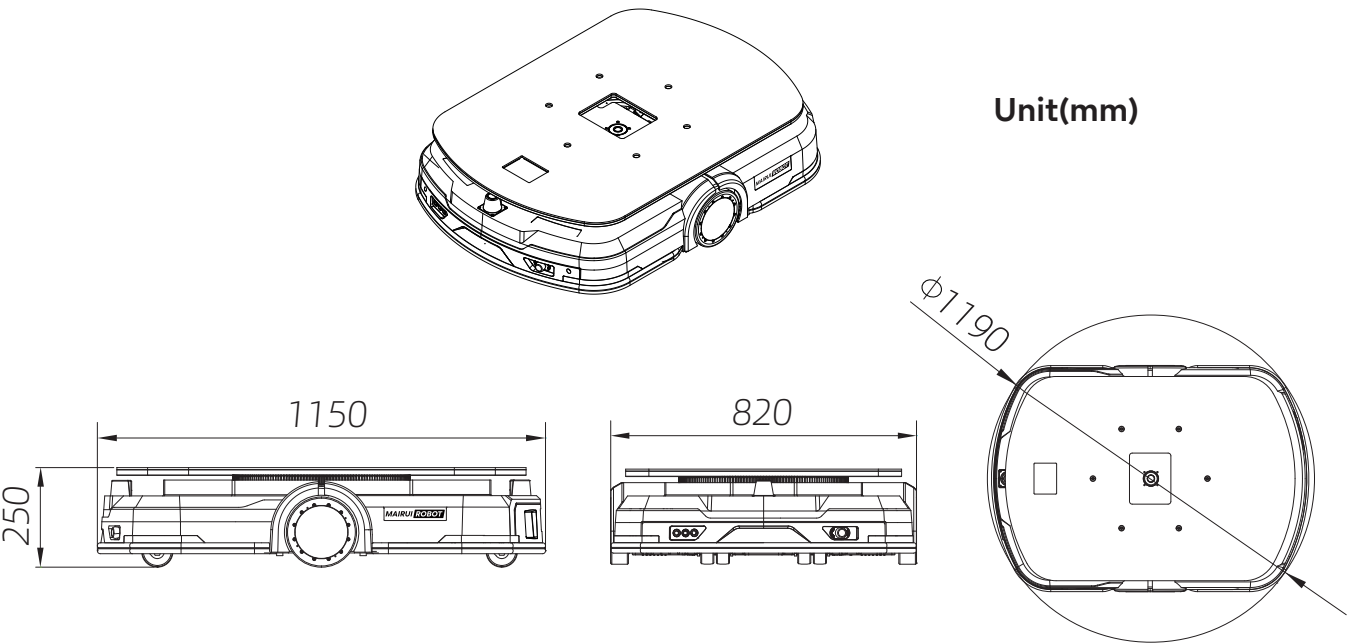
- ◆ **Autonomous positioning and navigation:** Use QR code navigation, laser SMM navigation, texture navigation and other technologies to achieve precise positioning.
- ◆ **Flexible motion control:** It adopts a two-wheel differential drive to support motion control such as forward, backward, rotation, etc., and the movement process is smooth and supple.
- ◆ **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.
- ◆ **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.
- ◆ **Large cargo handling:** It supports multiple handling methods of lifting, transporting, rotating and lowering cargo up to 1500 kg.
- ◆ **Device status indication:** Indicate various vehicle statuses through multiple lighting effects.
- ◆ **Wireless network communication:** It supports WIFI and 5G network communication, and the network coverage area operates without obstacles.
- ◆ **Friendly human-computer interaction:** Supports LCD display and audible and visual alarm prompts.

## TECHNICAL PARAMETERS

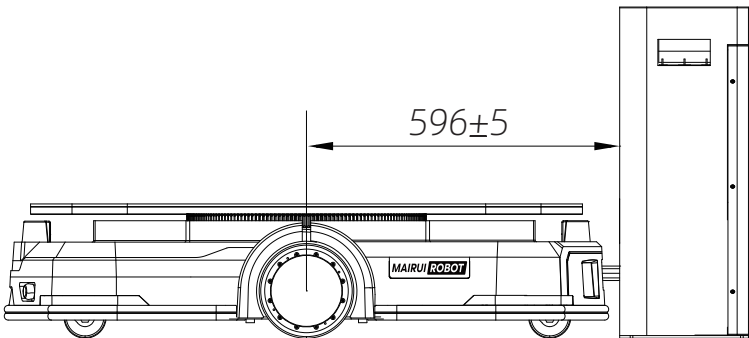
INDEX		PARAMETER
General	Rated Load(kg)	1000-1500
	Dimension L*W*H (mm)	1150 (L) ×820 (W) ×250 (H)
	Rotation Diameter (mm)	1190
	Lifting Height (mm)	60
	Ground Clearance(mm)	25
	Lifting Pad Size (mm)	1050×740
	Lifting Method	Electric Motor
	Weight (kg)	185
	Navigation	QR Code / LSLAM / VSLAM
	Independent rotation function of racks and AGVs	Support
	5G Mobile Communication Technology	Optional
	LCD Screen	Standard Configuration
Safety Protection	Front Protection	270°Laser
	Rear Protection	270°Laser Optional
	Bumper Detection	360 ° Detection
	Scram Button	Front & Rear
	Light Alarm	Available
	Voice prompts	Optional
	3D Obstacle Avoidance	Optional
Motion Performance	Operating Speed(empty load) (m/s)	2
	Operating Acceleration(empty load) (m/s <sup>2</sup> )	1
	Stop Angle Accuracy(°)	±1
	Stop Position Accuracy (mm)	±10
Battery Performance	Rated Voltage(V)	48
	Battery Capacity (Ah)	44
	Battery Charging Cycles	Fully charging & discharging 1500 times
	Endurance (H)	≥8
	Charging Time (H)	Charging duration after full discharge ≤ 2
	Battery Type	Lithium Iron Phosphate



PRODUCT SIZE



CHARGING DISTANCE GUIDE



MODEL

Model	Material code
L5-1000C23B-MR	1.0.01.02.0025

OPTIONAI ACCESSORIES

Accessories	Model	Material code
Charging station	MRC_V3.0_20A	1.0.04.05.0004
External debugging cable	Standard Ethernet cable, RJ45 to RJ45	/