AMR- L2

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
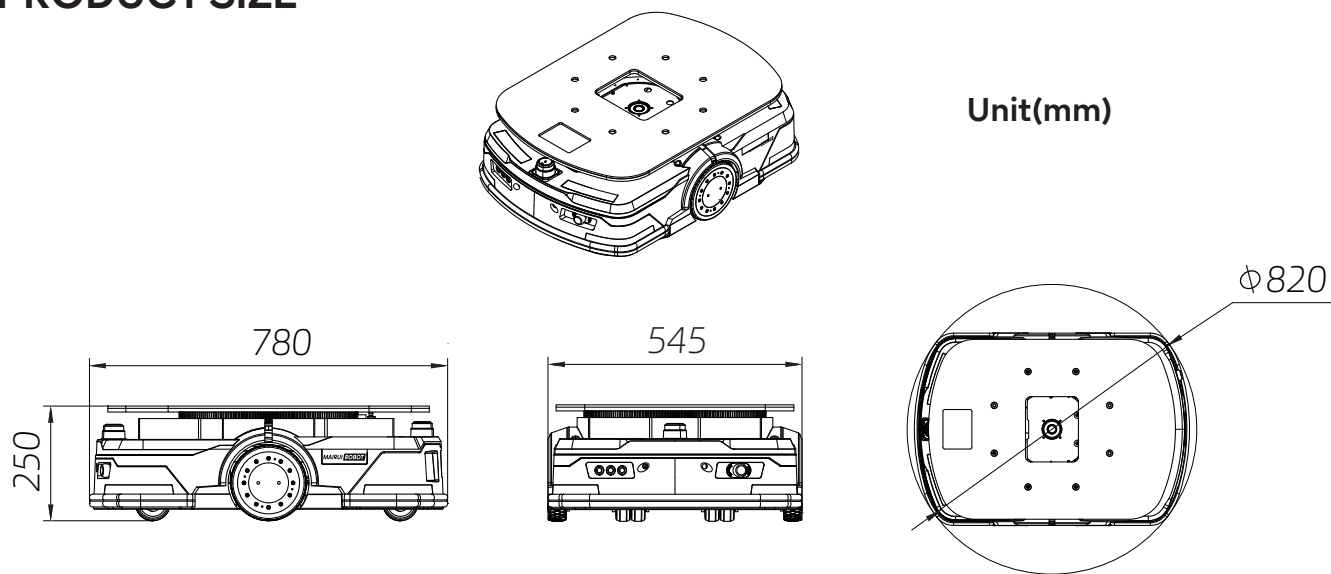
◆ **Autonomous positioning and navigation：**Use QR code navigation, laser SMM navigation, texture navigation and other technologies to achieve precise positioning.

◆ **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 400 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.
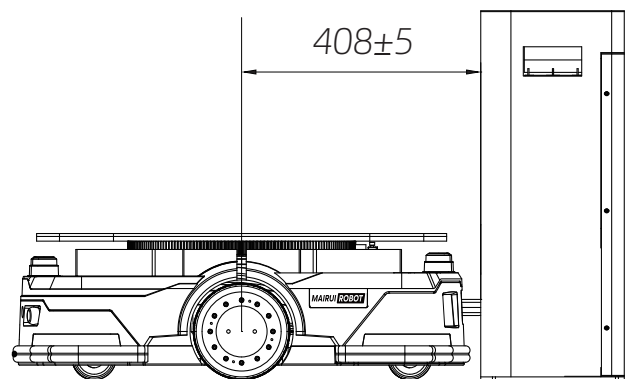
TECHNICAL PARAMETERS

INDEX		PARAMETER
General	Rated Load(kg)	400
	Dimension L*W*H (mm)	780（L）×545（W）×250（H）
	Rotation Diameter (mm)	820
	Lifting Height (mm)	60
	Ground Clearance(mm)	25
	Lifting Pad Size (mm)	700×520
	Lifting Method	Electric Motor
	Weight (kg)	96
	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)	1.5
	Operating Acceleration(empty load) (m/s^2)	1
	Stop Angle Accuracy(°)	±1
	Stop Position Accuracy (mm)	±10
Battery Performance	Rated Voltage(V)	48
	Battery Capacity (Ah)	16
	Battery Charging Cycles	Fully charging & discharging 1500 times
	Endurance (H)	≥8
	Charging Time (H)	Charging duration after full discharge ≤ 1
	Battery Type	Lithium Iron Phosphate

PRODUCT SIZE

Unit(mm)

φ820

780

545

250

408±5

CHARGING DISTANCE GUIDE

MODEL

Model	Material code
L2-400C10B-MR	1.0.01.03.0001

OPTIONAI ACCESSORIES

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

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