AMR- L8

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.

Lithium Battery Production

New Energy Vehicle Production

Photovoltaic Production
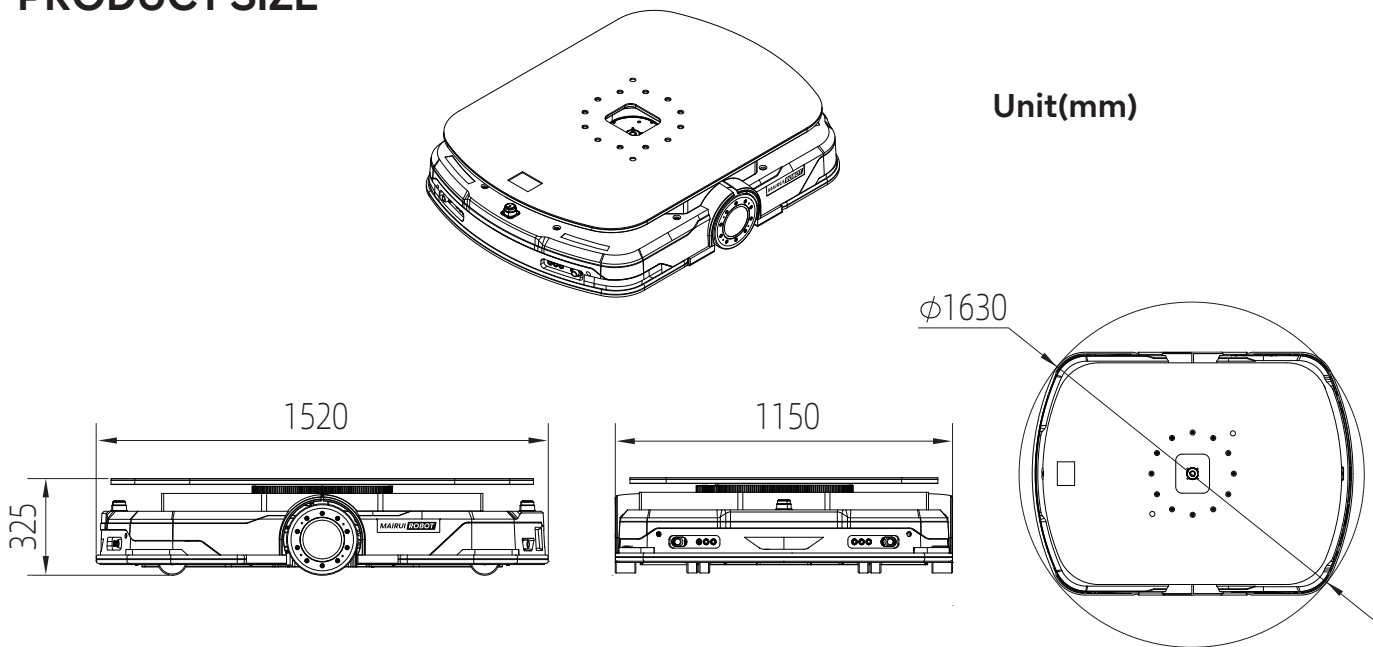
Automotive Industry

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 2000 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.
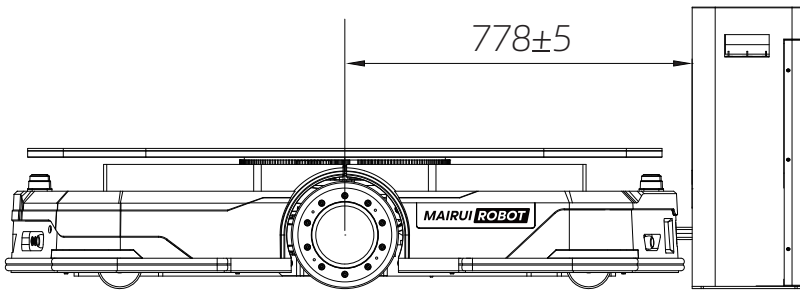
TECHNICAL PARAMETERS

INDEX		PARAMETER
General	Rated Load(kg)	2000
	Dimension L*W*H (mm)	1520（L）×1150（W）×325（H）
	Rotation Diameter (mm)	1630
	Lifting Height (mm)	100
	Ground Clearance(mm)	28
	Lifting Pad Size (mm)	1420×1050
	Lifting Method	Electric Motor
	Weight (kg)	525
	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	Two buttons on each front and 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^2)	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 ≤ 1.5
	Battery Type	Lithium Iron Phosphate

PRODUCT SIZE

Unit(mm)

ϕ1630

1520

325

1150

CHARGING DISTANCE GUIDE

778±5

MAIRUI ROBOT

MODEL

Model	Material code
L8-2000C10B-MR	1.0.01.04.0002

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	/

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