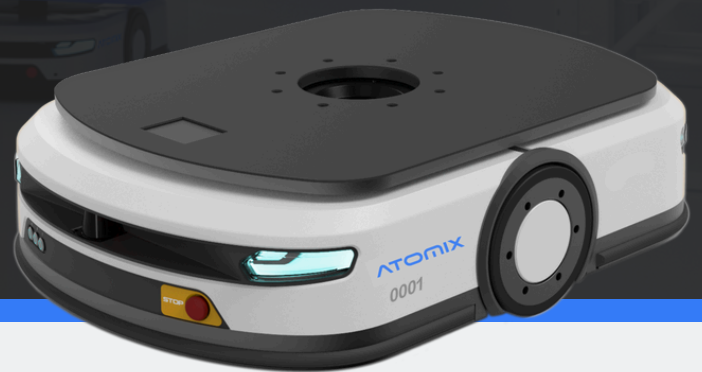# PALLET AMR
ATOM-AMR Series

Pallet Handling Autonomous Mobile Robot
Designed for high transport capacities in confined spaces

Finest Technology

✓ Over 95% high-precision industrial design ensures top performance

✓ Two-section chassis design improves ground adaptability

Super Intelligent

✓ Advanced control powered by a self-developed SoC control module

✓ Autonomous driving architecture for high-performance mobility

Extremely Safe

✓ Multi-level protection through laser, emergency stop, bumper and scheduling systems

✓ Comprehensive sound, light, and visual alarms to prevent accidents

Sophisticated design

✓ High-precision industrial design with customizable sizes and rich color options

✓ Industry-leading volume-to-weight ratio

Specifications

ATOMIX

		T Series			S Series
		T800	**T1000**	**T1500**	**S800**
Basic	Dimensions (L*W*H)	950*680*245 mm	1174*850*250 mm	1174*850*257 mm	950*680*330 mm
	Rotation Diameter	965 mm	1250 mm	1250 mm	965 mm
	Weight	135 kg	220 kg	295 kg	140 kg
	Payload	800 kg	1000 kg	1500 kg	800 kg
	Lifting distance	58 mm	58 mm	56 mm	58 mm
	Navigation	QR code + IMU	QR code + IMU	QR code + IMU	lidar SLAM
Performance	Max. Speed	2.1 m/s	2.25 m/s	1.5 m/s	1.5 m/s
	Max. Acc	2 m/s²	2 m/s²	1 m/s²	0.7 m/s²
	Positioning Accuracy	±10 mm	±10 mm	±10 mm	±10 mm
	Stop Position& Angle Precision	±5 mm & ±1°	±5 mm & ±1°	±5 mm & ±1°	±5 mm & ±1°
	Traversable Gap and Sill Tolerance	10 mm step, 35 mm GAP	10 mm step, 35 mm GAP	10 mm step, 35 mm GAP	10 mm step, 35 mm GAP
	Max. Gradeability	3° (10 m)	3° (10 m)	3° (10 m)	3° (10 m)
Battery	Charging Voltage	51.2V 24Ah	51.2V 48Ah	51.2V 48Ah	51.2V 24Ah
	Cycles Life (Times)	Complete charge and discharge for 1500 times	Complete charge and discharge for 1500 times	Complete charge and discharge for 1500 times	Complete charge and discharge for 1500 times
	Battery Life in Use	6-8H (related to working conditions)	12 H (related to working conditions)	8 H (related to working conditions)	6-8H (related to working conditions)
	Charging Time	SOC 0-100% charging time ≤ 2H	SOC 0-100% charging time ≤ 2H	SOC 0-100% charging time ≤ 1.5H	SOC 0-100% charging time ≤ 2H
Safety	Laser Obstacle Radar (Front)	Max. Detection Angle 180 °	Max. Detection Angle 180 °	Max. Detection Angle 180 °	Max. Detection Angle 180 °
	Emergency Stop Button	Yes	Yes	Yes	Yes
	Sound-light Alarm	Supported	Supported	Supported	Supported
Communication	Wi-Fi	802.11 a/b/g/n Wi-Fi，2.4G/5G	802.11 a/b/g/n Wi-Fi，2.4G/5G	802.11 a/b/g/n Wi-Fi，2.4G/5G	802.11 a/b/g/n Wi-Fi，2.4G/5G
Environment	Ambient Temperature	-10℃~45℃	-10℃~45℃	-10℃~45℃	-10℃~45℃
	Ambient Humidness	5%~90% Non-Condensing	5%~90% Non-Condensing	5%~90% Non-Condensing	5%~90% Non-Condensing

- In addition to the standard models mentioned above, we also offer other versions such as T300, T1500, and T1000 cold storage models.
- Please contact our sales representative for more details.

Software - Atomixer

With 50+ advanced algorithms, Atomixer enables efficient management of robots, containers, and orders. Its modular design and flexible APIs allow seamless integration as a black box, grey box, or white box.

Its highly modular design and flexible API interfaces ensure effortless integration and adaptability, making it a versatile solution for diverse operational needs.

- Comprehensive functionality
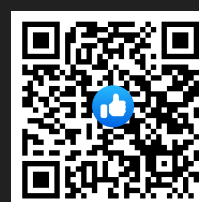- Advanced algorithms
- Easy to use
- Stable and reliable

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