

AMR-NT15

Autonomous Mobile Robot

NOBLELIFT

诺力物流机器人



Product Advantages

- **Precise Positioning:** Utilizes laser SLAM-based autonomous positioning and navigation, combined with QR code navigation, to achieve precise positioning.
- **Stable Docking:** Features a reliable and stable lifting design that ensures secure docking for load handling, meeting the requirements of most applications.
- **Self-Developed Core:** Employs independently developed main control and functional modules, offering high integration, stability, and reliability.
- **Efficiency & Productivity Improvement:** Supports multiple autonomous charging methods, including scheduled charging and low-battery auto return.
- **Safety Protection:** Equipped with safety obstacle avoidance laser and 3D vision-based obstacle detection, intelligently identifying obstacles for safer operation.

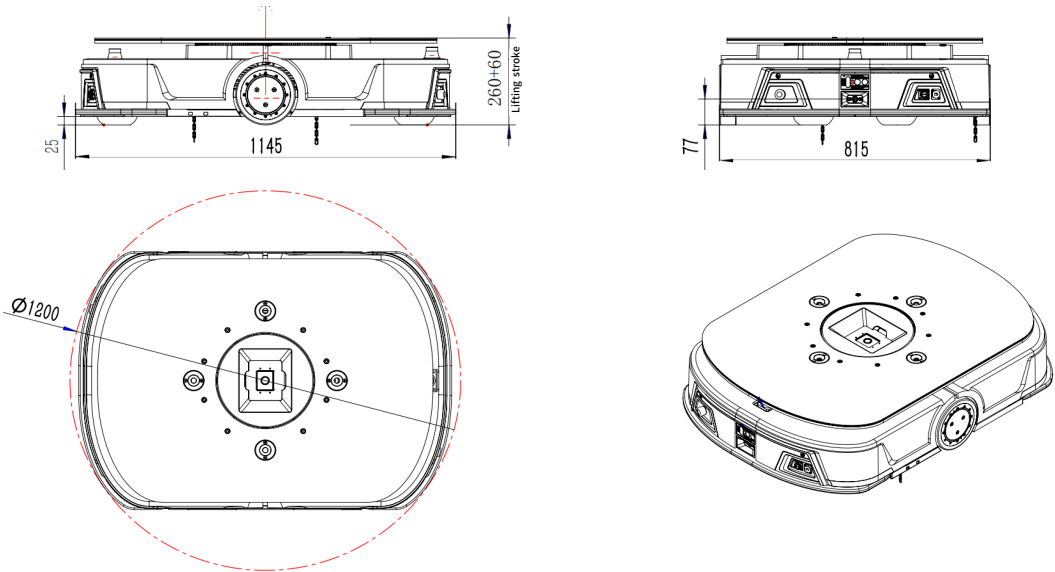


Applications

- Provides flexible material transport and loading/unloading solutions for manufacturing facilities.
- Suitable for the handling of large, heavy-duty materials and containers in industries such as new energy, automotive, construction machinery, and packaging.
- Applicable for warehouse receiving, sorting, consolidation, and other similar scenarios.



Product three-views drawing



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 Technical Parameters

Product Model		AMR-NT15
Basic parameters	Overall dimensions	1145L*815W*260Hmm
	Service weight	200kg
	Rotating diameter	Φ1200mm
Operating capability	Lifting height	60 mm
	Lifting rated load	1500kg
	※Cargo fixing and vehicle rotating	●
Safety protection	Scope of protection	360° omni-directional without blind angle, including body and carrying shelf
	Protective measures	Three-level collision avoidance: Deceleration, slow stop and emergency brake
	Laser obstacle avoidance	Full coverage of front and rear double lasers at 360°
	Safety edge stop	All-round protection
	Emergency stop button	Can be operated with a one-handed reach around the body
	Audible and visible alarm	Light indication + voice prompt
	Side marker lights	○
	※Visual obstacle avoidance	●
Movement performance	Driving mode	Two-wheel differential
	Navigation mode	Hybrid navigation: Dual laser SLAM + QR code
	Walking mode	Back and forth two-way, in-situ rotation, left and right turning
	Walking speed	0~2.0m/s
	Navigation accuracy	±10mm
	Docking accuracy	±5mm
	Stopping Angle Accuracy	±1°
Battery	Battery type	Lithium iron phosphate
	Battery specification	48V40AH
	Battery Runtime	≥ 8 h
	Charge mode	Autonomous charging + manual charging
	Charge time	≤2 h
	Battery life	2000 cycles
Man-machine interaction	※LCD screen	●
	Light indication	Including body status, fault alarm, battery power and other indicators
	Sound prompt	Including steering, alarm prompt, playing of music and other prompts
	Button operation	Emergency/Power/Operation
	Expansion port	RJ45 100M
Application environment	Application environment	Indoor
	Ambient temperature	0~40 °C
	Ambient humidity	10~90%RH, no condensation
	Pavement gradient	≤ 5% / 3°
	Gap width	≤20 mm
	Air environment	Free of dust, flammable, explosive and corrosive gases
	Network communication	WIFI/IEEE 802.11 a/b/g/n/ac,Seamless roaming support,5G Optional
	5 G network	○