

NARA

AMR

AUTONOMOUS MOBILE ROBOT



History

- **2025:**AMR Development
- **2025:**Selected for K-Humanoid Alliance
- **2025:**Robot Joint Module Development
- **2024:**Renamed to NARA AUTOSYS Co., Ltd.
- **2023:**K9 Self-Propelled Howitzer Cooling System Development
- **2020:**High-Efficiency Gear Transmission Development
- **2019:**Ultra-High-Speed Fluid Coupling Development
- **2014:**API Q1 Certification
- **2010:**HS Coupling Certification for Wind Turbines
- **2009:**Fluid Coupling with Integrated Speed-Increasing Gear Development
- **2006:**High-Speed Fluid Coupling Development
- **2001:**Fluid Coupling & Gear Development for K9 Self-Propelled Howitzer
- **2000:**Railway Vehicle Gear Coupling Development & Supply
- **1997:**Marine Engine Planetary Gear Reducer Development
- **1996:**Fluid Coupling Development
- **1986:**Standard Fluid Coupling Development
- **1977:**Company Founded; Power Transmission Coupling Production Started



AMR Key Features & Application

Key Features

Intelligent Navigation, Real-Time Control, and Seamless Fleet Operations

- ☑ Autonomous Navigation
- ☑ Obstacle Avoidance
- ☑ Real-Time Data Processing
- ☑ Remote Monitoring
- ☑ Fixed-Position Operations
- ☑ Mobility & Adaptability
- ☑ Flexible Workflow Deployment



Key Applications of AMR

Smart Factory, Intralogistics, Material Handling, and Production Automation



- ☑ Factory Automation
- ☑ Smart Logistics System
- ☑ Intralogistics Automation
- ☑ Production Line Automation
- ☑ Material Handling Automation
- ☑ Unmanned Transport System
- ☑ Smart Manufacturing System
- ☑ Flexible Manufacturing System
- ☑ Smart Factory Solution
- ☑ Industrial Autonomous Logistics System

LIGHT - Duty AMR

Heavy & Medium Payload Transport

Light-duty AMRs are optimized for transporting payloads ranging from 300 to 1,000 kg and are widely utilized across various industrial environments.

Robust Structure & Modularity

With a durable design and support for various operational modules, AMRs can efficiently handle transportation tasks and assembly assistance applications.

Environmental Recognition & Route Optimization

Advanced environmental perception and route optimization technologies enable stable operation even in complex industrial environments.



HEAVY - Duty AMR

Heavy-Duty Transport Design

Large-scale AMRs are engineered to safely transport heavy payloads exceeding 2,000 kg, making them ideal for heavy-duty logistics applications.

Robust Structure & High-Capacity Battery

A reinforced body structure combined with a high-performance battery system enables long-distance operation and reliable heavy-load transportation.

Advanced Sensor System

Equipped with sensor systems that comply with industrial safety standards, AMRs provide outstanding obstacle detection and avoidance capabilities.



Specification

NR-A300 / A600 / A1000



Model	NR-A300	NR-A600	NR-A1000
General Performance			
Target Payload (kg)	300	600	1000
Size(LxWxH)	785x540x270	950x650x250	1000x800x255
Navigation	Laser SLAM		
Motion Performance			
Possibility(slope/step/gap)	≤5% / 5 mm / 30 mm		
Driving Speed (m/s)	≤1.4 m/s	≤1.8 m/s	≤1.8 m/s
Acceleration (m/s²)	≤ 0.6 m/s²	≤ 0.6 m/s²	≤ 0.6 m/s²
Navigation Angle Accuracy	± 0.5 °	±0.5 °	±1 °
Navigation Position Accuracy	± 5 mm		
Lifting Height:	≤ 60 mm		
Charging Performance			
Operating time(H)	12h	8h	8h
Charging Time (H)	≤ 2h		
Battery Type	LFP		
Safety Protection			
Front /Rear Protection	Anti-collision touch edges, laser obstacle avoidance radars, and emergency stop buttons		
Alarm	Light Alarm /Voice prompts		

NR-A2T / A5T



Model	NR-A2T	NR-A5T
General Performance		
Target Payload (kg)	2,000	5,000
Size(LxWxH)	2000x1300x550	3200x1650x420
Navigation	Laser SLAM	
Motion Performance		
Possibility (slope/step/gap)	≤5% / 5 mm / 30 mm	
Driving Speed (m/s)	≤1.0 m/s	≤0.8 m/s
Acceleration (m/s²)	≤ 0.5 m/s²	≤ 0.3 m/s²
Navigation Angle Accuracy	± 1.0 °	
Navigation Position Accuracy	± 10 mm	
Lifting Height:	≤ 60 mm	-
Charging Performance		
Operating time(H)	6~8h	
Charging Time (H)	≤ 2h	
Battery Type	LFP	
Safety Protection		
Front /Reae Protection	Anti-collision touch edges, laser obstacle avoidance radars, and emergency stop buttons	
Alarm	Light Alarm /Voice prompts	

NR-A10T / A20T



Model	NR-A10T	NR-A20T
General Performance		
Target Payload (kg)	10,000	20,000
Size(LxWxH) (Customized type)	3200x1650x500	4000x2200x550
Navigation	Laser SLAM	
Motion Performance		
Possibility (slope/step/gap)	≤5% / 5 mm / 30 mm	
Driving Speed (m/s)	≤ 0.8 m/s	
Acceleration (m/s²)	≤ 0.3 m/s²	
Navigation Angle Accuracy	±1.0 °	
Navigation Position Accuracy	±10 mm	
Lifting Height: (Customized type)	≤ 80 mm	50~100mm
Charging Performance		
Operating time(H)	6~8h	
Charging Time (H)	≤ 2h	
Battery Type	LFP	
Safety Protection		
Front/Rear Protection	Anti-collision touch edges, laser obstacle avoidance radars, and emergency stop buttons	
Alarm	Light Alarm /Voice prompts	

NR-A60T



Model	NR-A60T
General Performance	
Target Payload (kg)	60,000
Size(LxWxH) (Customized type)	5350x1050x520
Navigation	Laser SLAM
Motion Performance	
Possibility (slope / step / gap)	≤5% / 5 mm / 30 mm
Driving Speed (m/s)	≤30 m/min
Acceleration (m/s²)	≤ 0.3 m/s²
Navigation Angle Accuracy	±1.0 °
Navigation Position Accuracy	±10 mm
Lifting Height	-
Charging Performance	
Operating time(H)	6~8h
Charging Time (H)	≤ 2h
Battery Type	LFP
Safety Protection	
Front/Rear Protection	Anti-collision touch edges, laser obstacle avoidance radars, and emergency stop buttons
Alarm	Light Alarm /Voice prompts

Information

For the latest information about NARA products, visit www.naraauto.com
To place an order, call 82-051-714-3800

All written and visual data contained in this document reflects the latest product information available at the time of publication.

NARA reserves the right to make changes at any time without notice.

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