



Autonomous Transport Platform

GoCart180 & 250

Smart System for Logistics

GoCart is an autonomous transport system that can be used in various dynamic environments and logistics applications. With its proprietary 3D ToF LiDAR-based intelligent navigation, it supports precise navigation and obstacle avoidance without using any artificial markers.

Key Features

- ✓ Fleet Management System (FMS)
- ✓ 3D SLAM & Navigation based on YUJIN 3D LiDAR
- ✓ Smart interface with automatic doors and elevators via FMS
- ✓ Industry-accredited PL d level safety system (EN ISO 13482:2014)

Why GoCart?



Agility & Flexibility

- Intelligent navigation in various environments, such as wide commercial and industrial facilities as well as narrow corridors
- Multi-purpose platform for open-ended applications



Safety & Reliability

- Fast obstacle recognition and avoidance using multiple sensors
- Operational safety validated based on series of field tests
- ISO 13482 certified proprietary safety solution ideal for public facilities such as hospitals



Installation & Integration

- Shorter and cost-efficient installation and deployment time compared to traditional AGV systems
- Easy system integration and interface for distributors and customers via Software Development Kit (SDK) and APIs

Applications



Healthcare

- Sterilized OT tools, lab samples, and medicine delivery



Smart Factory

- Parts and raw material delivery for assembly lines
- Integratable with manipulators



Warehouse

- Pallets, individual items, and boxes delivery

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What is the Fleet Management System?

The Fleet Management System (FMS) is a software suite for multi-robot services.

Site Configuration

- Assists deployment of autonomous mobile robot services in multi-floor buildings

Scheduling

- Schedules on-demand and on-schedule jobs via GUI
- Assigns the optimal robot worker for the job

Monitoring & Reporting

- Monitors the progress of the job and the robot's status on the centralized web-based user interface



Traffic control & Resource Management

- Controls robot fleet traffic to avoid deadlocks and to eliminate bottlenecks

Communication

- Integrates with building elevators and automatic doors
- Bridges with other IoT systems (MES, EMR, etc.)

Specifications

	GoCart180	GoCart250
Model		
Dimension (L x W x H)	730 mm x 530 mm x 420 mm	924 mm x 724 mm x 420 mm
Container Dimension (L x W)	646 mm x 441 mm	840 mm x 640 mm
Weight	around 120 kg	around 210 kg
Payload	4.76 deg slope (120 kg), on flat surface (up to 180 kg)	5 deg slope (200 kg), on flat surface (up to 250 kg)
Max Speed	1 m/sec	
Traversable Threshold	10 mm	
Traversable Gap	30 mm	
Climb Slope	4.76 degree	
Sensor for PL d Safety	2D LiDAR x 3 EA	

*Specifications and design are subject to change without any prior notice.