



Case Study | 2023

# GoCart AMR Improves Efficiency & Safety for Korean Warehouse



## The Challenge

A Korean-based warehouse [company name withheld] faced several challenges in ensuring safe and efficient operations at its order fulfillment warehousing facility. Human part-time workers had been tasked with manually pushing and pulling carts to transport goods throughout the warehouse. This led to a number of risks and challenges for the warehouse, including:

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A number of risks and challenges for the warehouse included time delays, safety issues, & staffing shortages

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**Time delays.** Human workers transported carts at varying speeds, resulting in extended waiting and lost time.

**Safety issues.** Pushing and pulling manual carts throughout the warehouse resulted in worker injury and safety concerns.

**Staffing shortages.** Since the warehouse is located outside a major city, managers struggled to find adequate staffing for manual labor positions. Most of the workforce is part-time laborers who show up each morning, but due to strenuous physical challenges, many do not show up for work the next day.

The company needed a solution that would address these challenges in a cost-effective way with minimal disruption.

## The Solution

After assessing various solutions and meeting with sales representatives from Yujin Robot, the warehouse's logistics management team decided to implement Yujin Robot's GoCart 180 AMR. This autonomous mobile platform can be used in various dynamic environments and logistics applications.

While the integration of GoCarts into the facility required moving and reorganizing wire racks, the disruption was worth it to solve the significant challenges of manual cart transportation.

In addition to supplying a total of ten GoCarts, Yujin Robot was quick to respond to inquiries and proactively suggested working together with the customer to integrate order-picking solutions as well as the digital picking system (DPS).

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“Yujin Robot suggested and set the integration work with the DPS, and it showed even better results for managing the whole warehousing process.” – Warehouse Manager

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## The Results



The GoCarts are fully integrated within the company's warehouse management system (WMS), order-picking solution and DPS system and move automatically to designated points, allowing the stationary workers in their assigned zones to pick up and fulfill orders and transport goods to the final packing zone. Three months post-implementation, the warehouse has seen significant improvements:

- **Work time has been reduced by 30%**, significantly improving efficiency.
- **There has been a decrease in waiting and loss time**, further streamlining the work process.
- **Workers can focus on less strenuous tasks** rather than manually moving carts, leading to increased employee retention.
- **GoCarts can do the work of multiple human laborers**, alleviating the company's worker shortage.



**Implementing GoCarts from Yujin Robot has eased the strain on the workforce, ensuring a safer and more efficient warehouse environment.**

**Learn how automation through Yujin Robot's GoCart AMR can transform your operations.**

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