



# NarGo Order Picking Solution

for Logistics Center Automation

**TWINNY**

Autonomous Logistics Robot Specialist

# Order Picking Solution

Analyzes product characteristics, environment, and operational scenarios of logistics centers to maximize efficiency with TWINNY's AI-based autonomous, customized logistics automation solution



Brand-matching wrapping design

Cargo boxes customized to item properties

## Implementation Benefits

### 01 Immediate Deployment Without Infrastructure Changes

Utilizes existing infrastructure and workflows without modification

### 02 Short Installation Period

Deployment completed within an average of 3 weeks, with no operational downtime

### 03 Improved Picking Accuracy

Reduces picking errors and omissions to enhance operational quality

### 04 Optimized Picking Routes

Minimizes unnecessary movement by optimizing routes based on order data

### 05 Reduced Workforce, 64% Labor Cost Reduction

Replaces repetitive tasks, enabling workers to focus on higher-value work

## Core AI Technologies

### Order Distribution Optimization

Analyzes orders to match optimized SKUs and locations, and consolidates invoices to maximize processing speed

### Obstacle Recognition Technology

Enables robots to detect and accurately avoid forklifts without reflective tape using forklift avoidance technology

### Multi-Robot Control

Enables multiple robots to plan routes without bottlenecks, ensuring stable operation even in noisy environments

---

# Picking Solution

A logistics picking solution that deploys autonomous mobile robots to support picking operations and automate item transport, tailored to order characteristics and operational conditions of logistics centers

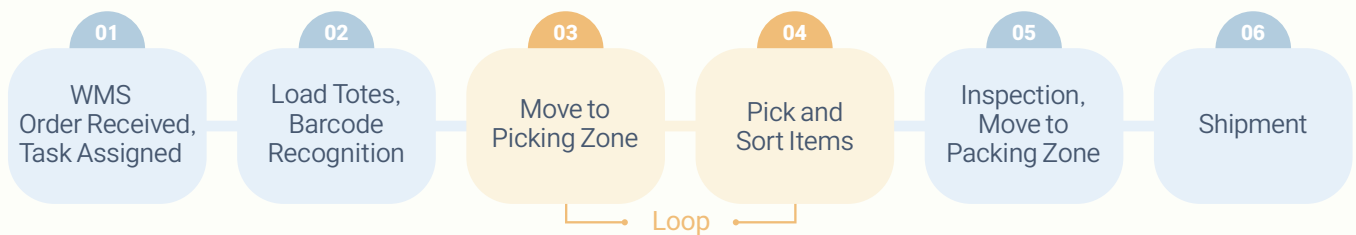
## Total Picking Scenario for Single Orders

Batch picking of multiple orders combined with AMRs reduces worker travel distance and increases picking density



## Multi-Order Picking Scenario for High-Mix Orders

Uses order-based totes to perform picking and sorting simultaneously, ensuring both accuracy and productivity



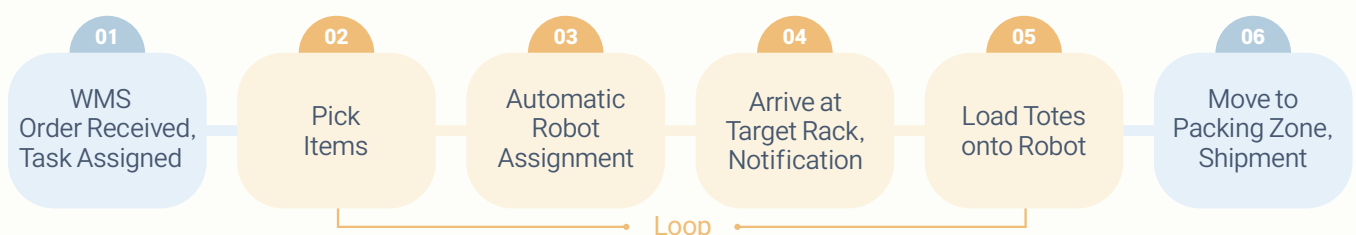
## Returns · Inbound Scenario

Standardizes inbound and returns processes through barcode-based automatic navigation



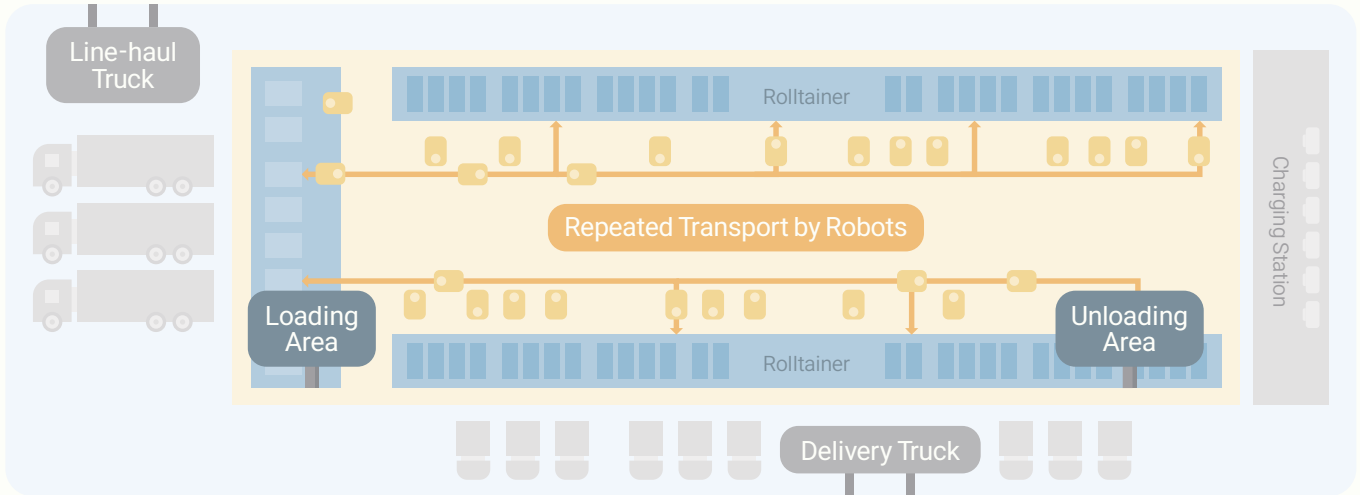
## Simple Transport Scenario for Any Logistics Center

Enhances operational efficiency by integrating with WMS, optimizing robot dispatch, and automating transport from heavy items to totes



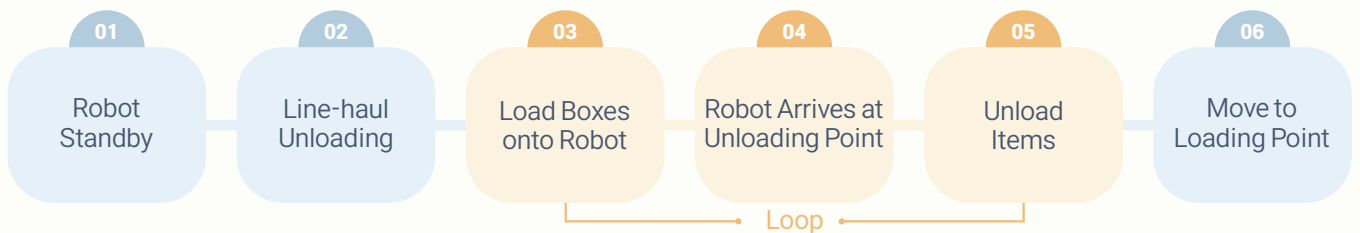
# Sorting Solution

A logistics sorting solution that leverages robots to automatically sort and transport inbound cargo, and to stack rolltainers by delivery zone at large hub distribution centers



## Sorting Scenario for Large-Scale Hub Centers

Enables automated transport through real-time distribution of same-day and early-morning delivery volumes to destination zones



### Eliminates Sorting Tasks for Delivery Drivers

Replaces manual sorting with robots to reduce driver workload

### Improved Working Environment

Reduces worker fatigue from repetitive tasks and ensures a safer workplace

### Flexible Deployment Structure

Unlike conveyor systems, enables easy relocation to maximize space efficiency

# Detailed Specification

## Basic Specification

**Size** 696 x 546 x 1,509 mm  
**Shelf Size** 500 x 509 mm  
**Safety Device** 3D LiDAR, 2D LiDAR, Bumper

**Payload** 100 kg  
**Speed** Max. 1.5 m/s  
**Network** Wi-Fi, LTE

## Battery Performance

**Battery** 29.4 V, 54 Ah  
**Charging Hours** Under 3hours  
**Operating Hours** Max. 8hours

# Use Cases

Seamless Autonomous  
Navigation, Anywhere

Operates flawlessly in all environments and conditions,  
even when handling diverse materials and complex situations



## Mezzanine

B2B — Apparel  
High-Mix, Low-Volume —  
Multi-Order Picking —

| AGABANG & COMPANY |  
아가방앤컴퍼니



## High Rack

B2C — Cosmetics  
Low-Mix, Low-Volume —  
Total Picking —

STL7  
START TODAY



## Lightweight Rack

B2C — Apparel  
High-Mix, Low-Volume —  
Multi-Order Picking —

| AGABANG & COMPANY |  
아가방앤컴퍼니



## High Rack

B2B — Cosmetics  
Low-Mix, High-Volume —  
Total · Multi-Order Picking —

YONGMA LOGIS



## High Rack

B2B — Pharmaceuticals  
Low-Mix, High-Volume —  
Multi-Order Picking —

PICO Innovation



## High Rack

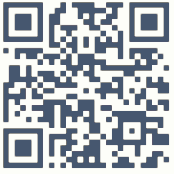
B2C — Health Supplements  
Low-Mix, Low-Volume —  
Total Picking —

Charm  
참물류

## Deployment Examples

Immediate Deployment, Immediate Impact!  
Our proven solution has already demonstrated its effectiveness across numerous enterprises.





Website



Youtube

### Website

[twinny.ai](https://twinny.ai)

### Email

[salescontact@twinny.ai](mailto:salescontact@twinny.ai)

### Contact

HQ | +82.42.716.1558

Product Inquiries | +82.42.866.8232

### Address

90, Gajeongbuk-ro, Yuseong-gu, Daejeon, South Korea

**Autonomous Logistics Robotics Specialist, TWINNY**

