

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 73.7%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/Day	Outbound/Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	86.4%	1,618	3,535	95.6%	64.5%	Improvement Needed
Distribution Center B	Dallas, TX	54.0%	2,693	3,063	97.7%	69.0%	Improvement Needed
Distribution Center C	Atlanta, GA	62.5%	2,633	1,992	99.1%	87.6%	Optimized
Distribution Center D	Los Angeles, CA	39.3%	2,200	3,266	98.1%	85.6%	Optimized
Distribution Center E	Newark, NJ	57.3%	2,359	1,954	99.2%	61.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement AI-driven inventory tracking in Warehouse 1

ment voice-
picking
system to
improve
accuracy to
99.8%

- Upgra
de WMS
integration
for real-time
inventory
visibility

- Add au
tomated
sortation
system for
small
package
handling

- Imple
ment
predictive
analytics for
demand-
based
staffing

- Consid
er AS/RS
system for
high-
velocity
SKUs