

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 77.0%
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	107.1%	1,057	1,761	98.4%	84.3%	Optimized
	Dallas, TX	111.7%	2,170	3,061	97.3%	67.2%	Improvement Needed
Distribution Center B	Atlanta, GA	56.7%	2,854	2,423	98.5%	79.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.6%	2,026	3,310	97.7%	84.6%	Optimized
Distribution Center E	Newark, NJ	52.2%	2,985	2,023	98.9%	69.7%	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