

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 76.6%
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	67.4%	2,721	3,674	98.4%	83.5%	Optimized
	Dallas, TX	66.3%	1,602	3,527	99.1%	66.7%	Improvement Needed
Distribution Center B	Atlanta, GA	86.2%	2,959	2,409	99.2%	93.4%	Optimized
Distribution Center C	Los Angeles, CA	58.3%	2,431	2,642	99.3%	63.7%	Improvement Needed
	Newark, NJ	85.4%	2,378	3,835	98.5%	75.7%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

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