

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 76.9%
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	93.0%	1,442	3,048	95.8%	82.0%	Optimized
	Dallas, TX	88.1%	2,849	3,406	99.0%	77.3%	Improvement Needed
Distribution Center B	Atlanta, GA	67.9%	2,643	1,536	99.2%	67.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	82.0%	2,332	3,155	97.7%	76.0%	Improvement Needed
Distribution Center E	Newark, NJ	88.6%	1,110	2,433	96.0%	81.3%	Optimized

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