

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 75.2%
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	78.3%	2,671	3,441	99.3%	93.5%	Optimized
	Dallas, TX	94.0%	1,325	1,748	95.9%	67.6%	Improvement Needed
Distribution Center B	Atlanta, GA	105.5%	1,117	2,678	96.4%	62.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	105.7%	2,951	2,993	95.8%	91.6%	Optimized
Distribution Center E	Newark, NJ	65.9%	1,366	3,830	99.3%	60.4%	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