

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: 73.8%
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	47.3%	1,898	3,810	95.4%	83.2%	Optimized
	Dallas, TX	34.7%	1,317	3,954	97.0%	65.3%	Improvement Needed
Distribution Center B	Atlanta, GA	58.8%	1,096	2,086	98.5%	75.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.9%	2,511	1,655	96.8%	81.5%	Optimized
Distribution Center E	Newark, NJ	54.7%	2,056	1,899	95.6%	63.9%	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