

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 85
Average Utilization: 74.0%
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	49.0%	1,235	3,289	95.4%	84.8%	Optimized
	Dallas, TX	110.0%	1,212	2,940	98.4%	72.4%	Improvement Needed
Distribution Center B	Atlanta, GA	36.2%	1,350	2,482	98.4%	63.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	100.6%	1,556	3,032	97.4%	61.6%	Improvement Needed
Distribution Center E	Newark, NJ	49.5%	2,910	3,347	98.4%	88.1%	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