

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: 74.3%
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	34.3%	1,773	3,870	96.8%	62.9%	Improvement Needed
Distribution Center B	Dallas, TX	57.4%	1,289	2,841	97.7%	90.2%	Optimized
Distribution Center C	Atlanta, GA	80.3%	2,239	2,996	95.2%	88.1%	Optimized
Distribution Center D	Los Angeles, CA	107.5%	2,561	3,458	99.2%	66.4%	Improvement Needed
Distribution Center E	Newark, NJ	86.1%	2,136	2,447	98.0%	63.8%	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