

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 30
Average Utilization: 74.9%
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	52.8%	1,131	2,949	97.4%	74.7%	Improvement Needed
Distribution Center B	Dallas, TX	70.2%	1,913	3,114	97.9%	85.5%	Optimized
Distribution Center C	Atlanta, GA	63.4%	2,944	2,531	98.1%	84.6%	Optimized
Distribution Center D	Los Angeles, CA	98.5%	1,900	3,712	95.3%	67.5%	Improvement Needed
Distribution Center E	Newark, NJ	85.0%	1,065	3,272	99.4%	62.3%	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