

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: 79.9%
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	54.3%	2,719	3,474	98.2%	75.3%	Improvement Needed
Distribution Center B	Dallas, TX	42.7%	2,151	2,042	96.6%	94.5%	Optimized
Distribution Center C	Atlanta, GA	62.4%	2,805	3,728	96.2%	68.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.3%	2,152	2,047	95.3%	67.0%	Improvement Needed
Distribution Center E	Newark, NJ	78.0%	1,447	2,989	98.5%	94.9%	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