

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 78.0%
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	40.3%	1,443	1,790	96.0%	74.9%	Improvement Needed
Distribution Center B	Dallas, TX	69.7%	2,096	2,323	96.9%	94.4%	Optimized
Distribution Center C	Atlanta, GA	117.5%	2,255	2,434	98.0%	64.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	42.8%	2,523	3,834	96.7%	80.0%	Optimized
Distribution Center E	Newark, NJ	49.7%	2,472	2,283	99.0%	75.9%	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