

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 76.4%
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	65.8%	1,186	3,413	97.2%	71.6%	Improvement Needed
Distribution Center B	Dallas, TX	52.8%	1,608	2,089	96.5%	66.3%	Improvement Needed
Distribution Center C	Atlanta, GA	82.4%	1,698	2,836	95.8%	89.8%	Optimized
Distribution Center D	Los Angeles, CA	75.5%	2,045	2,169	97.2%	62.7%	Improvement Needed
Distribution Center E	Newark, NJ	60.5%	1,588	1,520	95.2%	91.7%	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