

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 76.2%
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	57.1%	2,484	2,601	97.4%	67.0%	Improvement Needed
Distribution Center B	Dallas, TX	110.6%	2,413	2,196	97.5%	88.6%	Optimized
Distribution Center C	Atlanta, GA	74.6%	1,362	2,030	99.0%	62.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	33.7%	1,037	3,467	96.7%	79.8%	Improvement Needed
Distribution Center E	Newark, NJ	74.1%	1,805	1,998	95.6%	83.4%	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