

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: 77.3%
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	54.6%	2,473	2,545	97.6%	65.4%	Improvement Needed
Distribution Center B	Dallas, TX	59.2%	2,877	2,862	96.8%	86.6%	Optimized
Distribution Center C	Atlanta, GA	79.6%	1,695	2,308	97.8%	62.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.4%	2,685	2,924	97.8%	77.0%	Improvement Needed
Distribution Center E	Newark, NJ	56.1%	1,544	1,891	98.9%	94.8%	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