

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 76.5%
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	89.9%	2,246	3,377	95.3%	87.0%	Optimized
	Dallas, TX	70.5%	1,891	1,772	97.5%	64.0%	Improvement Needed
Distribution Center B	Atlanta, GA	85.4%	1,052	3,081	96.9%	68.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.6%	1,677	3,351	99.4%	78.7%	Improvement Needed
Distribution Center E	Newark, NJ	85.6%	1,894	2,895	95.9%	84.0%	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