

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
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	63.0%	2,277	3,477	99.2%	94.3%	Optimized
	Dallas, TX	61.8%	1,391	2,495	97.3%	66.1%	Improvement Needed
Distribution Center B	Atlanta, GA	64.3%	2,504	2,056	96.6%	67.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	84.3%	1,554	2,091	95.5%	82.1%	Optimized
Distribution Center E	Newark, NJ	58.8%	1,141	2,001	99.4%	76.5%	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