

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 24
Average Utilization: 78.1%
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	60.0%	1,424	3,217	99.5%	91.0%	Optimized
	Dallas, TX	92.4%	1,588	2,818	97.4%	64.8%	Improvement Needed
Distribution Center B	Atlanta, GA	68.2%	1,621	2,563	99.3%	73.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.9%	1,298	2,992	96.4%	68.1%	Improvement Needed
Distribution Center E	Newark, NJ	62.3%	2,174	2,972	95.1%	92.7%	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