

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 74.7%
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	64.5%	1,821	3,626	96.4%	85.5%	Optimized
	Dallas, TX	88.7%	1,496	3,581	98.4%	73.9%	Improvement Needed
Distribution Center B	Atlanta, GA	38.6%	2,663	3,179	99.2%	63.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.4%	1,602	2,390	97.4%	82.1%	Optimized
Distribution Center E	Newark, NJ	45.6%	1,103	2,689	95.4%	68.6%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement AI-driven inventory tracking in Warehouse 1

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