

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 78.8%
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 Status	
Distribution Center A	Chicago, IL	52.9%	1,544	3,954	95.1%	89.2%	Optimized
	Dallas, TX	50.8%	1,506	3,851	96.1%	78.0%	Improvement Needed
Distribution Center B	Atlanta, GA	69.1%	1,003	1,567	95.0%	76.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	102.0%	1,482	2,366	95.6%	65.0%	Improvement Needed
Distribution Center E	Newark, NJ	72.4%	2,202	3,258	97.5%	84.9%	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