

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 73.9%
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	107.3%	2,504	2,478	98.7%	70.1%	Improvement Needed
Distribution Center B	Dallas, TX	65.1%	1,770	3,347	97.8%	72.0%	Improvement Needed
Distribution Center C	Atlanta, GA	82.2%	2,509	3,960	96.8%	82.3%	Optimized
Distribution Center D	Los Angeles, CA	114.7%	1,752	2,894	95.5%	80.2%	Optimized
Distribution Center E	Newark, NJ	67.5%	2,061	1,962	98.5%	64.9%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement new picking strategy 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