

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 80.0%
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	126.3%	1,266	2,609	99.5%	90.7%	Optimized
	Dallas, TX	73.4%	2,509	3,796	97.9%	87.6%	Optimized
Distribution Center B	Atlanta, GA	65.2%	1,923	3,721	99.0%	72.3%	Improvement Needed
Distribution Center C	Los Angeles, CA	39.2%	2,641	3,180	97.7%	78.8%	Improvement Needed
Distribution Center D	Newark, NJ	83.8%	2,619	2,719	99.2%	70.3%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for robotic arms

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