

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 74.8%
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 Level	Status
Distribution Center A	Chicago, IL	62.1%	1,163	3,038	95.3%	85.1%	Optimized
	Dallas, TX	74.6%	1,219	3,167	96.5%	85.7%	Optimized
Distribution Center B	Atlanta, GA	37.4%	2,222	1,912	98.2%	73.7%	Improvement Needed
Distribution Center C	Los Angeles, CA	66.3%	1,223	2,431	95.2%	68.3%	Improvement Needed
Distribution Center D	Newark, NJ	82.1%	1,303	3,758	98.0%	61.2%	Improvement Needed

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