

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 15
Average Utilization: 78.6%
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	41.8%	2,485	2,468	95.3%	79.4%	Improvement Needed
Distribution Center B	Dallas, TX	66.5%	2,713	3,089	95.2%	68.3%	Improvement Needed
Distribution Center C	Atlanta, GA	58.3%	2,383	3,161	98.6%	86.9%	Optimized
Distribution Center D	Los Angeles, CA	34.9%	1,854	2,207	95.7%	75.0%	Improvement Needed
Distribution Center E	Newark, NJ	59.0%	1,567	3,715	98.6%	83.4%	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