

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: 76.4%
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	46.9%	2,692	3,355	97.0%	63.1%	Improvement Needed
Distribution Center B	Dallas, TX	46.1%	1,087	1,842	96.2%	94.7%	Optimized
Distribution Center C	Atlanta, GA	39.9%	1,559	2,666	99.5%	68.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	94.9%	1,445	2,296	95.8%	65.5%	Improvement Needed
Distribution Center E	Newark, NJ	91.7%	2,185	2,225	95.2%	89.9%	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