

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 79
Average Utilization: 79.4%
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	39.3%	2,132	1,730	95.5%	65.7%	Improvement Needed
Distribution Center B	Dallas, TX	74.1%	1,687	1,870	97.0%	91.4%	Optimized
Distribution Center C	Atlanta, GA	54.2%	2,553	1,535	97.0%	72.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	45.3%	2,586	1,977	97.1%	90.6%	Optimized
Distribution Center E	Newark, NJ	104.5%	1,224	2,617	98.4%	76.9%	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