

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 76.5%
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	74.6%	2,239	1,547	99.2%	67.3%	Improvement Needed
Distribution Center B	Dallas, TX	71.8%	1,746	2,464	97.7%	82.7%	Optimized
Distribution Center C	Atlanta, GA	73.1%	2,090	2,677	98.3%	71.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.9%	1,785	1,690	99.2%	72.3%	Improvement Needed
Distribution Center E	Newark, NJ	50.5%	1,303	2,110	97.0%	88.6%	Optimized

Optimization Opportunities

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

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