

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 77.8%
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	74.3%	1,711	2,770	99.0%	78.1%	Improvement Needed
Distribution Center B	Dallas, TX	75.1%	2,515	3,009	98.8%	61.5%	Improvement Needed
Distribution Center C	Atlanta, GA	63.1%	2,984	1,575	97.9%	89.6%	Optimized
Distribution Center D	Los Angeles, CA	55.4%	2,253	2,845	95.6%	92.9%	Optimized
Distribution Center E	Newark, NJ	76.6%	2,680	3,737	97.4%	67.0%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement new picking strategy in Warehouse 2

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