

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 24
Average Utilization: 78.4%
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	74.6%	1,073	2,171	98.1%	76.7%	Improvement Needed
Distribution Center B	Dallas, TX	102.7%	2,515	2,108	98.4%	60.2%	Improvement Needed
Distribution Center C	Atlanta, GA	52.8%	2,737	2,626	99.2%	73.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	87.3%	2,340	2,250	95.9%	92.3%	Optimized
Distribution Center E	Newark, NJ	63.2%	1,668	3,419	97.0%	89.1%	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