

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 73.7%
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 Status	
Distribution Center A	Chicago, IL	48.5%	2,282	3,992	95.8%	91.7%	Optimized
	Dallas, TX	83.0%	1,959	2,062	97.4%	60.8%	Improvement Needed
Distribution Center B	Atlanta, GA	111.5%	2,282	3,597	96.2%	69.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	104.4%	1,126	2,073	95.5%	84.4%	Optimized
Distribution Center E	Newark, NJ	35.7%	2,840	2,767	97.2%	62.1%	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