

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 75.0%
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	61.5%	1,444	1,725	98.3%	87.2%	Optimized
	Dallas, TX	56.6%	2,336	3,219	96.8%	66.8%	Improvement Needed
Distribution Center B	Atlanta, GA	93.3%	2,950	3,602	97.5%	63.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.8%	1,327	2,185	96.7%	64.7%	Improvement Needed
Distribution Center E	Newark, NJ	62.2%	2,408	3,930	98.9%	92.8%	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