

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 20
Average Utilization: 76.9%
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	77.6%	2,665	2,544	98.3%	84.5%	Optimized
	Dallas, TX	82.1%	1,325	3,736	97.2%	62.1%	Improvement Needed
Distribution Center B	Atlanta, GA	122.9%	2,055	3,603	95.4%	74.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	49.8%	2,767	2,092	95.2%	91.7%	Optimized
Distribution Center E	Newark, NJ	75.6%	1,035	2,855	97.3%	71.6%	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