

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 30
Average Utilization: 75.4%
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	55.3%	1,205	3,091	98.4%	86.2%	Optimized
	Dallas, TX	69.0%	2,938	2,832	95.8%	78.4%	Improvement Needed
Distribution Center B	Atlanta, GA	58.5%	1,608	2,786	97.5%	70.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.5%	1,102	3,924	98.3%	82.2%	Optimized
Distribution Center E	Newark, NJ	44.7%	1,572	1,639	95.3%	60.2%	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