

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 71.6%
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	90.2%	1,246	2,012	95.7%	83.2%	Optimized
	Dallas, TX	81.0%	1,412	3,803	96.3%	66.4%	Improvement Needed
Distribution Center B	Atlanta, GA	58.4%	1,464	2,137	98.4%	63.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	35.8%	1,473	3,579	96.0%	83.5%	Optimized
Distribution Center E	Newark, NJ	37.7%	1,240	1,647	98.0%	61.3%	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