

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 75.5%
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	61.4%	2,085	2,228	98.6%	81.8%	Optimized
	Dallas, TX	96.5%	1,114	1,927	95.8%	64.8%	Improvement Needed
Distribution Center B	Atlanta, GA	50.4%	2,457	3,211	96.5%	79.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.7%	1,887	1,598	98.5%	82.7%	Optimized
Distribution Center E	Newark, NJ	48.4%	2,647	1,605	96.5%	68.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement AI-driven inventory tracking in Warehouse 1

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