

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: 74.8%
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	57.7%	1,662	2,287	96.6%	91.4%	Optimized
	Dallas, TX	86.6%	2,817	3,370	98.8%	64.5%	Improvement Needed
Distribution Center B	Atlanta, GA	67.8%	2,285	2,164	96.3%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.9%	2,954	3,510	97.2%	67.1%	Improvement Needed
Distribution Center E	Newark, NJ	60.0%	2,979	1,820	98.1%	86.0%	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