

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 79.6%
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	106.3%	2,597	2,973	98.6%	94.3%	Optimized
	Dallas, TX	98.4%	2,534	1,997	98.0%	71.0%	Improvement Needed
Distribution Center B	Atlanta, GA	57.3%	1,656	1,992	98.0%	67.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.6%	2,868	2,287	98.4%	85.8%	Optimized
Distribution Center E	Newark, NJ	71.6%	2,474	3,223	96.7%	79.3%	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