

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 80.3%
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	68.5%	2,918	2,229	95.1%	93.8%	Optimized
	Dallas, TX	66.1%	1,267	1,841	97.5%	74.6%	Improvement Needed
Distribution Center B	Atlanta, GA	48.4%	1,192	3,141	96.4%	71.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.9%	1,718	3,399	98.0%	75.6%	Improvement Needed
Distribution Center E	Newark, NJ	85.9%	2,778	1,508	97.2%	85.7%	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