

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 73.7%
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 Level	Status
Distribution Center A	Chicago, IL	46.9%	2,619	2,275	95.2%	80.1%	Optimized
	Dallas, TX	46.2%	2,582	3,275	99.4%	65.7%	Improvement Needed
Distribution Center B	Atlanta, GA	73.7%	1,827	3,462	97.5%	69.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	112.8%	2,980	3,393	99.2%	65.0%	Improvement Needed
Distribution Center E	Newark, NJ	33.9%	2,866	2,097	99.3%	88.1%	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