

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 75.4%
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	52.9%	1,356	3,958	99.1%	89.3%	Optimized
	Dallas, TX	92.0%	1,358	3,575	96.8%	69.1%	Improvement Needed
Distribution Center B	Atlanta, GA	87.1%	2,455	2,453	96.7%	89.4%	Optimized
Distribution Center C	Los Angeles, CA	48.0%	2,743	2,602	99.3%	69.1%	Improvement Needed
	Newark, NJ	53.5%	1,733	2,755	96.5%	60.0%	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