

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 72.9%
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	74.8%	2,104	2,383	97.1%	80.3%	Optimized
	Dallas, TX	54.8%	2,198	3,617	95.1%	61.0%	Improvement Needed
Distribution Center B	Atlanta, GA	89.1%	1,737	2,720	98.3%	80.9%	Optimized
Distribution Center C	Los Angeles, CA	32.4%	1,978	3,865	95.7%	63.5%	Improvement Needed
	Newark, NJ	96.9%	1,008	2,055	96.4%	78.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for all automated systems

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