

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 74.3%
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 Level	Status
Distribution Center A	Chicago, IL	57.5%	2,139	2,453	97.3%	81.9%	Optimized
	Dallas, TX	107.1%	2,824	3,582	98.7%	67.0%	Improvement Needed
Distribution Center B	Atlanta, GA	59.5%	1,861	3,829	95.1%	90.4%	Optimized
Distribution Center C	Los Angeles, CA	43.6%	1,151	3,746	97.7%	61.6%	Improvement Needed
	Newark, NJ	38.6%	1,134	3,422	98.1%	70.6%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for robotic arms

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