

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: 74.6%
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	80.6%	2,240	2,344	97.5%	83.1%	Optimized
	Dallas, TX	79.1%	2,353	2,827	96.4%	85.7%	Optimized
	Atlanta, GA	53.1%	2,487	2,925	95.7%	73.7%	Improvement Needed
Distribution Center B	Los Angeles, CA	54.4%	1,279	2,141	96.0%	67.8%	Improvement Needed
Distribution Center C	Newark, NJ	68.3%	1,103	1,657	97.2%	62.9%	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