

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 76.3%
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	71.5%	1,547	2,516	98.6%	92.3%	Optimized
	Dallas, TX	37.0%	2,058	1,572	97.5%	82.6%	Optimized
Distribution Center B	Atlanta, GA	93.6%	1,030	2,952	97.3%	73.9%	Improvement Needed
Distribution Center C	Los Angeles, CA	98.3%	2,188	2,520	99.5%	60.8%	Improvement Needed
Distribution Center D	Newark, NJ	50.0%	2,421	3,167	99.5%	71.9%	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