

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: 79.2%
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	52.6%	2,620	2,872	95.8%	84.1%	Optimized
	Dallas, TX	99.2%	2,753	2,422	97.0%	75.5%	Improvement Needed
Distribution Center B	Atlanta, GA	33.8%	2,868	3,297	97.9%	89.9%	Optimized
Distribution Center C	Los Angeles, CA	92.5%	2,287	2,221	98.2%	71.8%	Improvement Needed
	Newark, NJ	82.3%	2,061	3,655	99.5%	74.7%	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