

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 66
Average Utilization: 77.2%
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	43.0%	2,089	3,142	98.9%	89.5%	Optimized
	Dallas, TX	53.0%	2,068	1,736	96.8%	69.5%	Improvement Needed
Distribution Center B	Atlanta, GA	61.3%	2,805	2,837	99.2%	90.7%	Optimized
Distribution Center C	Los Angeles, CA	76.4%	2,329	1,657	97.9%	62.4%	Improvement Needed
	Newark, NJ	54.8%	2,111	2,676	97.6%	73.7%	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