

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 78.4%
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 Status	
Distribution Center A	Chicago, IL	87.4%	1,745	3,723	96.7%	85.4%	Optimized
	Dallas, TX	88.8%	1,548	3,358	99.2%	75.9%	Improvement Needed
Distribution Center B	Atlanta, GA	105.8%	1,143	2,928	96.8%	69.5%	Improvement Needed
Distribution Center C	Los Angeles, CA	64.0%	1,226	2,469	95.2%	85.6%	Optimized
Distribution Center D	Newark, NJ	73.9%	2,347	2,203	95.4%	75.6%	Improvement Needed
Distribution Center E							

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