

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: 78.8%
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	45.1%	1,203	1,583	96.5%	94.3%	Optimized
	Dallas, TX	52.9%	2,884	1,807	95.7%	74.8%	Improvement Needed
Distribution Center B	Atlanta, GA	80.4%	2,448	2,775	95.9%	75.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	99.4%	1,928	3,961	98.4%	87.8%	Optimized
Distribution Center E	Newark, NJ	61.3%	2,479	2,532	98.9%	61.8%	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