

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 74.8%
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	72.4%	1,327	3,942	96.1%	94.0%	Optimized
	Dallas, TX	49.8%	1,108	3,424	95.8%	60.9%	Improvement Needed
Distribution Center B	Atlanta, GA	55.8%	1,604	2,257	98.1%	61.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	91.1%	1,642	3,743	98.3%	81.6%	Optimized
Distribution Center E	Newark, NJ	72.7%	1,458	3,290	97.1%	76.0%	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