

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: 75.5%
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	36.8%	2,013	3,560	98.7%	82.7%	Optimized
	Dallas, TX	79.1%	1,547	2,048	97.9%	68.8%	Improvement Needed
Distribution Center B	Atlanta, GA	128.8%	1,687	1,851	98.8%	63.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	87.8%	2,318	2,920	97.8%	85.0%	Optimized
Distribution Center E	Newark, NJ	97.5%	2,680	1,517	98.9%	77.4%	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