

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
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	54.1%	2,863	2,545	97.7%	81.4%	Optimized
	Dallas, TX	66.6%	2,010	2,339	97.2%	75.0%	Improvement Needed
Distribution Center B	Atlanta, GA	40.0%	1,347	2,299	95.7%	61.7%	Improvement Needed
Distribution Center C	Los Angeles, CA	42.8%	2,407	2,135	98.1%	94.7%	Optimized
Distribution Center D	Newark, NJ	46.6%	2,731	3,079	98.1%	79.4%	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