

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 76.6%
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	61.5%	1,077	3,339	96.0%	86.7%	Optimized
	Dallas, TX	78.1%	2,141	3,379	99.4%	94.2%	Optimized
Distribution Center B	Atlanta, GA	75.7%	2,740	2,139	97.1%	60.2%	Improvement Needed
Distribution Center C	Los Angeles, CA	65.4%	2,048	1,863	96.5%	65.5%	Improvement Needed
Distribution Center D	Newark, NJ	128.9%	1,670	2,180	97.2%	76.3%	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