

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 80.1%
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	72.2%	1,807	3,402	98.9%	86.5%	Optimized
	Dallas, TX	66.6%	2,421	3,316	95.9%	94.6%	Optimized
Distribution Center B	Atlanta, GA	86.5%	1,258	2,123	97.2%	64.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	36.8%	2,605	2,527	99.1%	77.1%	Improvement Needed
Distribution Center E	Newark, NJ	87.7%	1,874	1,572	98.2%	78.5%	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