

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: 76.3%
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	68.3%	2,422	3,941	99.2%	71.7%	Improvement Needed
Distribution Center B	Dallas, TX	48.6%	1,940	3,875	95.6%	80.4%	Optimized
Distribution Center C	Atlanta, GA	55.5%	2,427	2,349	95.1%	68.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.9%	2,955	3,358	95.0%	67.3%	Improvement Needed
Distribution Center E	Newark, NJ	34.1%	2,563	2,450	96.1%	93.8%	Optimized

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