

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: 77.6%
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	72.3%	2,397	2,336	96.5%	72.2%	Improvement Needed
Distribution Center B	Dallas, TX	84.1%	2,156	3,393	95.8%	83.9%	Optimized
Distribution Center C	Atlanta, GA	94.0%	2,286	2,752	98.4%	80.4%	Optimized
Distribution Center D	Los Angeles, CA	60.2%	2,332	3,186	97.1%	74.0%	Improvement Needed
Distribution Center E	Newark, NJ	79.3%	1,048	3,943	96.9%	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