

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 77.4%
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 Level	Status
Distribution Center A	Chicago, IL	36.6%	1,025	2,043	96.3%	64.7%	Improvement Needed
Distribution Center B	Dallas, TX	57.3%	2,357	2,080	97.9%	83.5%	Optimized
Distribution Center C	Atlanta, GA	75.6%	2,503	2,560	95.0%	92.6%	Optimized
Distribution Center D	Los Angeles, CA	45.4%	1,274	3,535	99.4%	66.8%	Improvement Needed
Distribution Center E	Newark, NJ	35.5%	1,521	1,502	98.5%	79.5%	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