

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 77.3%
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	52.4%	2,009	3,797	97.6%	65.3%	Improvement Needed
Distribution Center B	Dallas, TX	96.3%	1,047	1,554	97.0%	90.8%	Optimized
Distribution Center C	Atlanta, GA	51.8%	1,666	1,981	98.9%	72.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	117.7%	2,255	2,611	98.4%	74.7%	Improvement Needed
Distribution Center E	Newark, NJ	126.6%	2,990	3,030	99.4%	83.9%	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