

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 74.9%
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	64.6%	1,261	3,065	97.3%	60.9%	Improvement Needed
Distribution Center B	Dallas, TX	61.0%	2,152	3,902	96.4%	81.7%	Optimized
Distribution Center C	Atlanta, GA	78.7%	1,228	1,565	98.8%	75.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.2%	1,337	3,721	95.8%	62.5%	Improvement Needed
Distribution Center E	Newark, NJ	66.9%	1,851	2,829	95.7%	94.0%	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