

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 72.7%
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	75.6%	2,205	2,520	95.6%	65.0%	Improvement Needed
Distribution Center B	Dallas, TX	70.5%	2,926	2,975	98.6%	60.8%	Improvement Needed
Distribution Center C	Atlanta, GA	93.1%	1,051	3,723	97.4%	95.0%	Optimized
Distribution Center D	Los Angeles, CA	60.2%	1,753	2,401	96.6%	82.3%	Optimized
Distribution Center E	Newark, NJ	61.5%	2,641	2,820	98.1%	60.4%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for automated systems

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