

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 76.3%
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	54.4%	1,804	1,684	97.7%	74.7%	Improvement Needed
Distribution Center B	Dallas, TX	40.7%	2,078	3,062	96.7%	81.6%	Optimized
Distribution Center C	Atlanta, GA	71.2%	1,186	3,432	97.8%	75.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.9%	2,512	2,664	97.4%	85.8%	Optimized
Distribution Center E	Newark, NJ	51.5%	2,130	3,199	95.0%	64.2%	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