

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 82.6%
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	87.7%	2,652	1,821	95.8%	76.3%	Improvement Needed
Distribution Center B	Dallas, TX	82.1%	1,850	3,121	99.2%	93.1%	Optimized
Distribution Center C	Atlanta, GA	42.6%	1,091	3,040	96.3%	71.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.6%	2,421	1,621	95.2%	94.5%	Optimized
Distribution Center E	Newark, NJ	72.5%	1,395	3,224	98.1%	77.5%	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