

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 78.8%
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	91.6%	2,672	3,417	98.8%	84.9%	Optimized
	Dallas, TX	60.8%	2,661	3,263	97.3%	62.2%	Improvement Needed
Distribution Center B	Atlanta, GA	79.6%	2,630	3,925	97.4%	79.1%	Improvement Needed
Distribution Center C	Los Angeles, CA	117.9%	2,949	2,796	95.2%	89.5%	Optimized
Distribution Center D	Newark, NJ	55.8%	2,367	2,840	96.8%	78.1%	Improvement Needed
Distribution Center E							

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