

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 77.2%
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	68.7%	1,227	2,429	95.6%	85.2%	Optimized
	Dallas, TX	78.6%	2,250	3,107	99.4%	67.4%	Improvement Needed
Distribution Center B	Atlanta, GA	80.5%	1,138	3,577	96.1%	74.8%	Improvement Needed
Distribution Center C	Los Angeles, CA	109.4%	1,037	3,835	98.8%	92.5%	Optimized
Distribution Center D	Newark, NJ	52.1%	1,237	2,710	98.1%	66.1%	Improvement Needed
Distribution Center E							

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement AI-driven inventory tracking in Warehouse 1

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