

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
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	39.9%	1,618	1,596	98.4%	92.6%	Optimized
	Dallas, TX	65.4%	2,458	3,061	96.4%	63.3%	Improvement Needed
Distribution Center B	Atlanta, GA	57.5%	1,307	2,881	97.6%	77.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	116.0%	2,958	3,838	98.4%	87.5%	Optimized
Distribution Center E	Newark, NJ	71.4%	1,649	3,304	98.2%	64.7%	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