

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 75.2%
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	68.4%	1,429	2,060	97.7%	83.7%	Optimized
	Dallas, TX	54.6%	2,168	2,818	99.4%	67.6%	Improvement Needed
Distribution Center B	Atlanta, GA	79.6%	2,890	2,881	96.2%	67.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	53.0%	1,539	2,010	97.9%	69.1%	Improvement Needed
Distribution Center E	Newark, NJ	96.7%	2,987	3,917	98.9%	87.8%	Optimized

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