

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 76.1%
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 Status	
Distribution Center A	Chicago, IL	48.8%	1,567	2,370	97.0%	84.6%	Optimized
	Dallas, TX	66.1%	2,315	3,355	97.6%	78.9%	Improvement Needed
Distribution Center B	Atlanta, GA	38.1%	2,923	3,771	95.2%	63.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.3%	2,610	2,433	97.0%	71.4%	Improvement Needed
Distribution Center E	Newark, NJ	100.4%	2,653	3,510	98.7%	82.5%	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