

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 80.2%
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 Status	
Distribution Center A	Chicago, IL	43.1%	2,640	2,372	97.9%	84.0%	Optimized
	Dallas, TX	84.1%	1,697	3,338	97.8%	79.3%	Improvement Needed
Distribution Center B	Atlanta, GA	96.9%	2,079	1,723	96.8%	64.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	115.6%	1,059	3,070	96.6%	78.3%	Improvement Needed
Distribution Center E	Newark, NJ	63.5%	2,723	1,584	97.0%	94.8%	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