

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: 79.6%
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	70.2%	1,736	3,938	95.4%	86.5%	Optimized
	Dallas, TX	96.5%	1,159	3,466	99.2%	72.7%	Improvement Needed
Distribution Center B	Atlanta, GA	116.9%	2,944	1,725	97.7%	75.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.8%	1,629	2,688	99.4%	78.9%	Improvement Needed
Distribution Center E	Newark, NJ	136.0%	1,802	2,647	98.0%	84.0%	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