

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 20
Average Utilization: 77.0%
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	63.1%	2,254	3,419	96.4%	85.6%	Optimized
	Dallas, TX	128.7%	2,259	2,424	99.4%	71.2%	Improvement Needed
Distribution Center B	Atlanta, GA	96.1%	2,320	2,009	95.3%	82.6%	Optimized
Distribution Center C	Los Angeles, CA	41.4%	2,335	2,670	98.6%	73.8%	Improvement Needed
	Newark, NJ	73.3%	1,591	3,284	96.9%	71.7%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for all automated systems

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