

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 73.2%
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	100.0%	1,451	3,464	95.6%	83.3%	Optimized
	Dallas, TX	76.8%	2,018	2,926	98.0%	62.8%	Improvement Needed
Distribution Center B	Atlanta, GA	53.2%	2,162	2,730	96.0%	86.7%	Optimized
	Los Angeles, CA	52.0%	1,415	3,311	96.2%	70.6%	Improvement Needed
Distribution Center C	Newark, NJ	91.8%	1,058	1,719	96.9%	62.6%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for robotic arms

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