

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 76.2%
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	61.4%	1,728	2,257	95.0%	84.7%	Optimized
	Dallas, TX	122.9%	2,459	3,662	99.4%	93.8%	Optimized
Distribution Center B	Atlanta, GA	84.3%	1,681	2,309	95.1%	63.3%	Improvement Needed
Distribution Center C	Los Angeles, CA	61.8%	2,950	3,448	97.4%	75.7%	Improvement Needed
Distribution Center D	Newark, NJ	54.3%	2,514	3,292	95.9%	63.7%	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