

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 76.1%
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	104.7%	1,613	1,682	99.0%	80.7%	Optimized
	Dallas, TX	116.8%	1,829	2,641	95.7%	77.3%	Improvement Needed
Distribution Center B	Atlanta, GA	64.2%	1,195	3,404	98.6%	61.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.9%	2,368	3,733	97.0%	75.8%	Improvement Needed
Distribution Center E	Newark, NJ	54.5%	1,852	3,169	99.3%	85.3%	Optimized

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