

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 79.9%
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	38.2%	2,354	2,303	95.5%	89.3%	Optimized
	Dallas, TX	57.0%	2,648	2,295	98.4%	76.9%	Improvement Needed
Distribution Center B	Atlanta, GA	53.0%	1,398	2,658	96.1%	62.0%	Improvement Needed
Distribution Center C	Los Angeles, CA	69.0%	1,042	2,016	96.5%	91.6%	Optimized
Distribution Center D	Newark, NJ	58.6%	1,247	3,994	96.9%	79.8%	Improvement Needed
Distribution Center E							

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