

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 80.8%
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	43.1%	1,308	1,679	98.7%	75.2%	Improvement Needed
Distribution Center B	Dallas, TX	79.8%	2,156	3,028	96.6%	90.7%	Optimized
Distribution Center C	Atlanta, GA	55.2%	1,681	1,725	98.4%	80.9%	Optimized
Distribution Center D	Los Angeles, CA	50.7%	1,381	1,568	96.8%	72.3%	Improvement Needed
Distribution Center E	Newark, NJ	57.8%	1,203	1,944	96.4%	85.0%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-

picking
system to
improve
accuracy to
99.8%

- Upgrade WMS integration for real-time inventory visibility

- Add automated sortation system for small package handling

- Implement predictive analytics for demand-based staffing

- Consider AS/RS system for high-velocity SKUs