

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: 80.9%
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 Level	Status
Distribution Center A	Chicago, IL	80.6%	2,561	3,887	95.6%	71.7%	Improvement Needed
Distribution Center B	Dallas, TX	77.2%	2,973	3,243	96.5%	78.6%	Improvement Needed
Distribution Center C	Atlanta, GA	64.9%	1,562	3,775	97.8%	91.5%	Optimized
Distribution Center D	Los Angeles, CA	70.2%	1,853	3,261	99.4%	81.8%	Optimized
Distribution Center E	Newark, NJ	76.4%	2,828	2,469	97.2%	80.7%	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