

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 78.9%
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	73.7%	2,764	3,212	96.4%	70.1%	Improvement Needed
Distribution Center B	Dallas, TX	37.6%	1,363	2,617	97.4%	83.5%	Optimized
Distribution Center C	Atlanta, GA	36.5%	1,266	2,015	96.5%	83.4%	Optimized
Distribution Center D	Los Angeles, CA	88.6%	2,874	3,525	95.8%	69.2%	Improvement Needed
Distribution Center E	Newark, NJ	65.8%	1,362	2,631	95.1%	88.3%	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