

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 79.3%
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	60.8%	1,808	3,391	95.2%	82.5%	Optimized
	Dallas, TX	70.0%	1,458	3,764	99.3%	79.7%	Improvement Needed
Distribution Center B	Atlanta, GA	50.5%	1,456	2,396	97.3%	67.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.5%	1,831	2,692	96.7%	85.1%	Optimized
Distribution Center E	Newark, NJ	70.4%	2,577	2,203	95.4%	82.1%	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