

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 81.6%
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	55.1%	1,652	2,610	95.7%	88.3%	Optimized
	Dallas, TX	60.3%	1,944	1,639	97.6%	70.9%	Improvement Needed
Distribution Center B	Atlanta, GA	84.1%	2,238	2,287	96.4%	71.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.4%	2,001	2,498	98.3%	84.7%	Optimized
Distribution Center E	Newark, NJ	86.1%	1,591	2,794	97.8%	92.5%	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