

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 70.7%
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	91.8%	1,706	1,956	96.6%	71.2%	Improvement Needed
Distribution Center B	Dallas, TX	44.8%	2,172	2,354	95.3%	63.2%	Improvement Needed
Distribution Center C	Atlanta, GA	79.6%	2,911	2,361	99.4%	61.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	96.1%	1,215	2,850	98.9%	90.1%	Optimized
Distribution Center E	Newark, NJ	63.4%	1,938	3,162	95.6%	67.6%	Improvement Needed

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