

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 72.4%
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	116.7%	2,728	2,504	99.0%	60.5%	Improvement Needed
Distribution Center B	Dallas, TX	93.6%	2,767	3,313	97.0%	60.3%	Improvement Needed
Distribution Center C	Atlanta, GA	80.3%	2,817	2,450	96.0%	76.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.2%	1,643	2,847	99.3%	92.4%	Optimized
Distribution Center E	Newark, NJ	36.4%	1,681	1,625	98.8%	72.1%	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