Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 73.7%
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	34.7%	1,349	1,728	98.5%	72.9%	Improvement Needed
Distribution Center B	Dallas, TX	62.3%	1,067	1,656	95.9%	78.8%	Improvement Needed
Distribution Center C	Atlanta, GA	50.7%	1,986	2,674	98.4%	71.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	110.4%	2,479	2,657	98.0%	72.0%	Improvement Needed
Distribution Center E	Newark, NJ	58.8%	1,301	2,208	97.3%	73.5%	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