Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 66.8%
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	74.9%	1,041	3,925	97.2%	72.5%	Improvement Needed
Distribution Center B	Dallas, TX	42.4%	2,243	3,442	96.2%	67.9%	Improvement Needed
Distribution Center C	Atlanta, GA	72.2%	1,294	3,661	99.0%	63.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.0%	1,330	3,957	96.5%	63.4%	Improvement Needed
Distribution Center E	Newark, NJ	56.3%	1,565	2,384	96.8%	66.8%	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