Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 74.3%
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	36.3%	1,538	2,767	99.2%	75.7%	Improvement Needed
Distribution Center B	Dallas, TX	73.0%	1,191	1,634	96.0%	71.3%	Improvement Needed
Distribution Center C	Atlanta, GA	71.7%	2,779	2,343	95.3%	78.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	40.2%	1,212	1,986	96.2%	84.8%	Optimized
Distribution Center E	Newark, NJ	78.9%	1,282	3,081	96.5%	61.3%	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