Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 74.7%
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	46.3%	2,726	3,174	95.6%	66.8%	Improvement Needed
Distribution Center B	Dallas, TX	39.8%	2,134	2,869	95.2%	67.6%	Improvement Needed
Distribution Center C	Atlanta, GA	45.2%	1,737	2,623	95.5%	83.4%	Optimized
Distribution Center D	Los Angeles, CA	119.3%	2,325	3,803	98.7%	78.1%	Improvement Needed
Distribution Center E	Newark, NJ	57.7%	2,071	1,547	96.8%	77.4%	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