Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 82
Average Utilization: 85.3%
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	97.1%	1,244	3,853	99.0%	85.4%	Optimized
Distribution Center B	Dallas, TX	70.0%	2,513	2,353	99.3%	93.3%	Optimized
Distribution Center C	Atlanta, GA	86.1%	2,541	1,690	96.4%	91.0%	Optimized
Distribution Center D	Los Angeles, CA	34.8%	1,195	2,288	96.6%	86.8%	Optimized
Distribution Center E	Newark, NJ	118.1%	2,079	2,419	96.5%	69.8%	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