Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 87.7%
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	73.8%	1,668	2,170	96.2%	91.0%	Optimized
Distribution Center B	Dallas, TX	120.2%	1,862	1,784	97.3%	78.3%	Improvement Needed
Distribution Center C	Atlanta, GA	37.3%	1,185	1,993	97.1%	86.5%	Optimized
Distribution Center D	Los Angeles, CA	45.0%	1,866	2,608	98.9%	89.0%	Optimized
Distribution Center E	Newark, NJ	40.4%	2,020	2,811	99.0%	93.6%	Optimized

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