Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 80.9%
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	59.1%	1,598	2,670	99.0%	91.4%	Optimized
Distribution Center B	Dallas, TX	42.8%	1,305	1,671	99.5%	89.9%	Optimized
Distribution Center C	Atlanta, GA	79.0%	2,333	3,853	97.4%	84.1%	Optimized
Distribution Center D	Los Angeles, CA	49.6%	2,869	3,884	99.2%	65.3%	Improvement Needed
Distribution Center E	Newark, NJ	57.1%	2,731	3,880	98.8%	74.0%	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