Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 79.4%
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	57.3%	1,849	3,099	96.4%	66.5%	Improvement Needed
Distribution Center B	Dallas, TX	83.8%	2,606	1,635	95.2%	74.8%	Improvement Needed
Distribution Center C	Atlanta, GA	78.6%	2,123	3,015	97.3%	82.9%	Optimized
Distribution Center D	Los Angeles, CA	45.7%	1,463	2,556	99.2%	85.4%	Optimized
Distribution Center E	Newark, NJ	44.3%	2,742	3,014	99.3%	87.5%	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