Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
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	53.3%	2,212	2,154	98.2%	79.3%	Improvement Needed
Distribution Center B	Dallas, TX	55.1%	2,393	3,607	99.0%	62.4%	Improvement Needed
Distribution Center C	Atlanta, GA	46.6%	2,101	3,835	96.8%	90.3%	Optimized
Distribution Center D	Los Angeles, CA	110.7%	1,402	2,103	95.2%	84.4%	Optimized
Distribution Center E	Newark, NJ	66.6%	2,991	3,881	99.3%	80.6%	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