Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 81.9%
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	52.5%	1,115	3,376	98.4%	84.4%	Optimized
Distribution Center B	Dallas, TX	67.1%	1,431	3,579	95.1%	75.6%	Improvement Needed
Distribution Center C	Atlanta, GA	39.4%	2,828	3,086	96.1%	90.8%	Optimized
Distribution Center D	Los Angeles, CA	84.9%	2,262	1,701	95.1%	83.9%	Optimized
Distribution Center E	Newark, NJ	45.4%	1,500	3,754	98.0%	74.6%	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