Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 79.6%
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	55.1%	1,227	2,592	99.1%	91.1%	Optimized
Distribution Center B	Dallas, TX	44.1%	1,734	2,544	99.5%	64.6%	Improvement Needed
Distribution Center C	Atlanta, GA	55.0%	1,506	3,715	95.2%	92.1%	Optimized
Distribution Center D	Los Angeles, CA	69.0%	1,395	2,094	98.6%	83.2%	Optimized
Distribution Center E	Newark, NJ	85.0%	1,864	3,820	96.6%	67.0%	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