Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 79.1%
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	56.3%	1,635	3,688	98.8%	84.8%	Optimized
Distribution Center B	Dallas, TX	36.7%	2,405	2,157	95.5%	91.4%	Optimized
Distribution Center C	Atlanta, GA	36.5%	2,456	3,407	95.6%	66.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	77.4%	2,135	3,881	95.9%	74.8%	Improvement Needed
Distribution Center E	Newark, NJ	102.3%	2,565	1,759	95.7%	77.9%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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