Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 76.6%
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	62.0%	2,399	2,975	98.6%	82.4%	Optimized
Distribution Center B	Dallas, TX	33.4%	2,941	3,094	96.3%	83.5%	Optimized
Distribution Center C	Atlanta, GA	70.3%	1,051	2,046	98.9%	93.5%	Optimized
Distribution Center D	Los Angeles, CA	36.3%	1,800	2,109	96.5%	63.2%	Improvement Needed
Distribution Center E	Newark, NJ	76.3%	1,073	2,803	98.6%	60.2%	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