Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 22
Average Utilization: 75.0%
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	77.3%	1,629	3,153	96.2%	65.4%	Improvement Needed
Distribution Center B	Dallas, TX	68.4%	2,800	2,351	97.3%	67.4%	Improvement Needed
Distribution Center C	Atlanta, GA	69.8%	2,548	2,501	98.4%	90.5%	Optimized
Distribution Center D	Los Angeles, CA	53.2%	2,113	3,364	98.1%	62.6%	Improvement Needed
Distribution Center E	Newark, NJ	61.3%	2,083	2,709	98.4%	88.8%	Optimized

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