Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 73.7%
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	61.2%	1,893	2,599	96.1%	62.4%	Improvement Needed
Distribution Center B	Dallas, TX	55.5%	2,377	3,069	98.5%	85.5%	Optimized
Distribution Center C	Atlanta, GA	122.0%	2,193	3,952	98.1%	65.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.7%	1,056	2,100	97.9%	61.1%	Improvement Needed
Distribution Center E	Newark, NJ	61.7%	1,141	2,271	96.3%	93.7%	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