Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 78.6%
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	86.0%	1,751	1,872	97.4%	67.9%	Improvement Needed
Distribution Center B	Dallas, TX	83.4%	2,409	2,787	97.3%	81.4%	Optimized
Distribution Center C	Atlanta, GA	37.9%	1,460	3,385	97.0%	78.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	101.8%	1,071	3,871	97.4%	75.3%	Improvement Needed
Distribution Center E	Newark, NJ	78.8%	1,318	3,828	97.4%	89.3%	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