Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 77.6%
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	74.2%	1,948	3,751	97.9%	86.9%	Optimized
Distribution Center B	Dallas, TX	57.3%	2,873	1,816	96.5%	91.5%	Optimized
Distribution Center C	Atlanta, GA	78.0%	2,289	2,218	95.8%	66.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.0%	2,083	2,632	99.1%	77.9%	Improvement Needed
Distribution Center E	Newark, NJ	36.8%	2,182	3,389	97.0%	64.9%	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