Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 78.8%
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	48.0%	1,082	2,047	96.3%	84.6%	Optimized
Distribution Center B	Dallas, TX	67.9%	2,588	2,804	97.6%	71.4%	Improvement Needed
Distribution Center C	Atlanta, GA	51.1%	2,040	2,399	97.8%	75.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	89.7%	1,591	3,918	95.4%	91.7%	Optimized
Distribution Center E	Newark, NJ	102.1%	2,258	2,239	97.6%	71.2%	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