Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 78.5%
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	84.0%	2,295	2,530	97.7%	74.4%	Improvement Needed
Distribution Center B	Dallas, TX	45.4%	2,802	3,376	97.7%	89.7%	Optimized
Distribution Center C	Atlanta, GA	46.1%	2,966	3,576	95.6%	84.2%	Optimized
Distribution Center D	Los Angeles, CA	84.6%	1,238	2,933	98.4%	72.1%	Improvement Needed
Distribution Center E	Newark, NJ	99.0%	2,076	3,351	97.8%	71.9%	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