Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
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	68.8%	1,750	2,719	97.3%	79.3%	Improvement Needed
Distribution Center B	Dallas, TX	81.0%	2,832	3,464	95.2%	64.6%	Improvement Needed
Distribution Center C	Atlanta, GA	54.3%	1,200	1,696	95.5%	94.9%	Optimized
Distribution Center D	Los Angeles, CA	123.9%	2,079	1,790	98.6%	90.0%	Optimized
Distribution Center E	Newark, NJ	58.2%	2,166	3,342	95.2%	64.2%	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