Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 76.4%
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	95.8%	2,503	2,745	96.7%	82.6%	Optimized
Distribution Center B	Dallas, TX	31.3%	1,009	2,118	99.3%	75.9%	Improvement Needed
Distribution Center C	Atlanta, GA	108.7%	1,294	3,473	95.8%	94.5%	Optimized
Distribution Center D	Los Angeles, CA	99.6%	1,358	2,597	99.1%	62.2%	Improvement Needed
Distribution Center E	Newark, NJ	59.4%	1,045	3,355	95.8%	66.9%	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