Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 75.2%
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	59.0%	1,848	1,552	96.8%	86.7%	Optimized
Distribution Center B	Dallas, TX	58.1%	1,046	1,659	96.1%	60.9%	Improvement Needed
Distribution Center C	Atlanta, GA	75.0%	2,417	3,796	95.4%	77.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	75.9%	2,427	3,811	95.8%	80.4%	Optimized
Distribution Center E	Newark, NJ	114.6%	2,205	2,232	95.2%	70.3%	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