Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 77.7%
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	57.1%	2,352	2,861	96.6%	89.5%	Optimized
Distribution Center B	Dallas, TX	77.7%	2,836	3,502	99.0%	66.2%	Improvement Needed
Distribution Center C	Atlanta, GA	86.3%	1,460	2,010	95.1%	94.9%	Optimized
Distribution Center D	Los Angeles, CA	58.1%	2,899	2,832	97.4%	64.6%	Improvement Needed
Distribution Center E	Newark, NJ	46.5%	1,691	3,637	96.9%	73.1%	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