Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 76.5%
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	54.3%	2,573	3,312	98.7%	66.0%	Improvement Needed
Distribution Center B	Dallas, TX	101.2%	2,241	3,006	96.0%	87.6%	Optimized
Distribution Center C	Atlanta, GA	39.3%	2,115	2,340	96.2%	86.0%	Optimized
Distribution Center D	Los Angeles, CA	40.8%	2,681	3,403	97.9%	78.7%	Improvement Needed
Distribution Center E	Newark, NJ	74.5%	1,535	3,993	97.9%	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