Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 74.5%
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	52.8%	1,998	1,642	99.1%	93.3%	Optimized
Distribution Center B	Dallas, TX	75.3%	1,546	1,815	96.0%	85.2%	Optimized
Distribution Center C	Atlanta, GA	34.2%	1,439	1,962	96.2%	71.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	76.6%	2,834	3,102	95.8%	62.5%	Improvement Needed
Distribution Center E	Newark, NJ	101.1%	1,639	3,112	96.5%	60.4%	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