Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 76.1%
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	68.8%	2,690	3,027	98.2%	90.0%	Optimized
Distribution Center B	Dallas, TX	75.3%	1,145	2,243	97.8%	67.7%	Improvement Needed
Distribution Center C	Atlanta, GA	49.4%	1,569	2,690	98.3%	84.1%	Optimized
Distribution Center D	Los Angeles, CA	114.1%	1,114	3,615	97.6%	66.7%	Improvement Needed
Distribution Center E	Newark, NJ	76.4%	2,473	2,197	98.2%	71.8%	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