Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 78.0%
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	46.2%	1,108	1,717	96.6%	83.3%	Optimized
Distribution Center B	Dallas, TX	70.2%	2,546	2,944	97.4%	92.8%	Optimized
Distribution Center C	Atlanta, GA	59.1%	1,155	1,767	97.8%	75.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	67.0%	2,770	3,127	97.9%	63.8%	Improvement Needed
Distribution Center E	Newark, NJ	85.0%	2,517	3,270	98.1%	75.0%	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